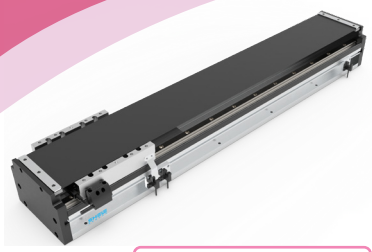
Classified index

01

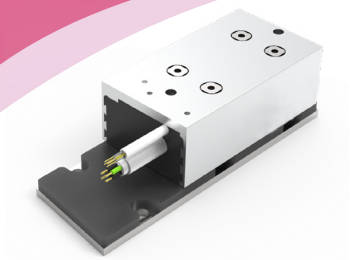


LM/DDL series

Linear motor

P.001

02

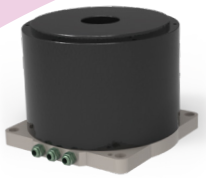


Rotor Stator

Rotor Stator

P.047

03

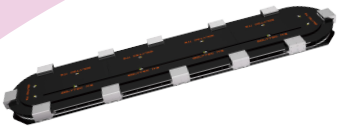


DD motor

DD motor

P.062

04

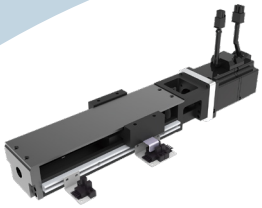


ITS series

Intelligent Transport Systems

P.072

05



KK series

KK module

P.082

06

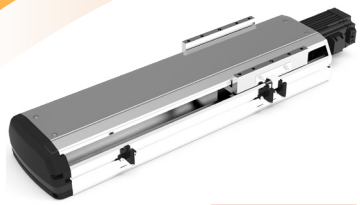


GTH series

GTH series slideway with embedded screw

P.097

07

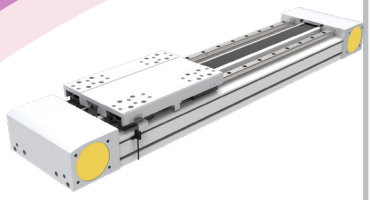


P series

Japanese type screw/timing belt slide

P.120

08



EGT series

European type EGT series timing belt slide

P.168

09



STP Series

STP economical belt module

P.187

Classified index



MK series timing belt slide

P.201



M series timing belt slide

P.223



MX series rack and pinion module

P.223



C series compact electric cylinder

P.242



YH series high-precision electric cylinder

P.254



ECQ guide rod embedded electric cylinder

P.264



EG series guide rod electric cylinder

P.271



EPS/EPY series electric cylinder

P.282



EMH series electric slide table (built-in motor)

P.288

Classified index



EBQ series electric blocking cylinder P.291



ES series standard electric cylinder P.295



A series heavy-duty electric cylinder P.329



ESIP series waterproof electric cylinder P.350



Precision displacement platform P.359



Electric gripper P.421



ERA linear rotary actuator P.451



Ariable camshaft module P.457



Precision reducer P.460

27



Steering gear

P.507

28

- 线上选型操作
- 选型软件操作

- 保固期限及范围
- 使用安全注意事项
- 测量工具
- 技术用语参考资料
- 滚珠螺杆参考资料
- 线性滑轨参考资料
- 信息采集表

Reference material

P.521

Product index

01 Direct drive series P.001

LMA series economical linear motor

- LMA-60



Width 60mm
Max stroke 800mm.....005
Max load 10kg

- LMA-90



Width 90mm
Max stroke 1300mm.....008
Max load 18kg

- LMA-120



Width 125mm
Max stroke 1700mm.....011
Max load 30kg

DDL series standard linear motor

- DDL11



Width 112mm
Max stroke 4044mm.....013
Max load 31kg

- DDL14M



Width 140mm
Max stroke 4044mm.....016
Max load 55kg

- DDL14



Width 135mm
Max stroke 4804mm.....019
Max load 23kg

- DDL17



Width 170mm
Max stroke 4744mm.....022
Max load 45kg

- DDL21



Width 210mm
Max stroke 4684mm.....025
Max load 75kg

- DDL24



Width 235mm
Max stroke 4634mm.....030
Max load 125kg

- DDL27



Width 270mm
Max stroke 4664mm.....033
Max load 200kg

DDL series standard fully enclosed linear motor

- DDL14W



Width 140mm
Max stroke 4804mm.....036
Max load 31KG

- DDL17W



Width 170mm
Max stroke 4044mm.....039
Max load 55kg

- DDL21W



Width 210mm
Max stroke 4044mm.....042
Max load 75kg

Product index

Rotor Stator

• SL50



Width	50mm
Continuous thrust	360N.....048
Peak thrust	720N

• SL80



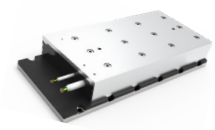
Width	80mm
Continuous thrust	800N.....050
Peak thrust	1800N

• SL100



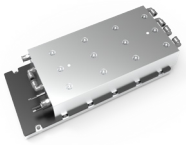
Width	100mm
Continuous thrust	1080N.....053
Peak thrust	2440N

• SL130



Width	130mm
Continuous thrust	1900N.....056
Peak thrust	4500N

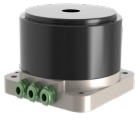
• SLW130



Width	130mm
Continuous thrust	3900N.....059
Peak thrust	7125N
Width	264mm
Continuous torque	108N.m.....065
Max axial load	1200N

DD motor

• DD80-67



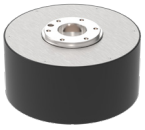
Width	80mm
Continuous torque	1.1N.m.....064
Max axial load	1200N

• DD80-100



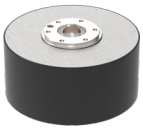
Width	80mm
Continuous torque	2.3N.m.....065
Max axial load	1200N

• DD110-65



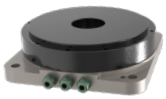
Width	110mm
Continuous torque	3N.m.....066
Max axial load	9000N

• DD110-85



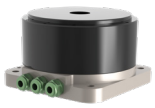
Width	110mm
Continuous torque	6N.m.....067
Max axial load	9000N

• DD170-50



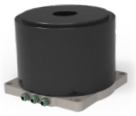
Width	170mm
Continuous torque	5N.m.....068
Max axial load	9000N

• DD170-95



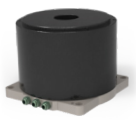
Width	170mm
Continuous torque	28N.m.....069
Max axial load	9000N

• DD263-138



Width	264mm
Continuous torque	108N.m.....070
Max axial load	25000N

• DD263-188



Width	264mm
Continuous torque	200N.m.....070
Max axial load	25000N

Intelligent Transport Systems

• ITS-L



Repeatability	±0.03mm
Load	2kg-40kg.....073
Maximum acceleration	x5g
Maximum speed	5m/s

• ITS-LT



Repeatability	±0.01mm
Load	2kg-40kg.....077
Maximum acceleration	x5g
Maximum speed	5m/s

Product index

• ITS-LTH



Repeatability	±0.1mm
Load	100kg-5000kg.....079
Maximum acceleration	x2g
Maximum speed	3.5m/s

• IWS



Repeatability	±0.1mm
Load	2kg-500kg.....080
Maximum acceleration	x0.5g
Maximum speed	1.5m/s

02 Embedded screw module series P.082

KK module

KK40



Width	40mm
Maximum track length	200mm.....086
Max load	3kg

• KK50



Width	50mm
Maximum track length	300mm.....087
Max load	12kg

• KK60D



Width	60mm
Maximum track length	600mm.....088
Max load	20kg

• KK86D



Width	86mm
Maximum track length	940mm.....089
Max load	50kg

• KK100



Width	100mm
Maximum track length	1380mm.....090
Max load	80kg

PTH series guide rail embedded screw slide table

• GTH4



Width	44mm
Max stroke	500mm.....099
Max load	25kg

• GTH5



Width	54mm
Max stroke	800mm.....102
Max load	30kg

• GTH5S



Width	54mm
Max stroke	800mm.....105
Max load	30kg

• GTH8



Width	82mm
Max stroke	1100mm.....108
Max load	50kg

• GTH8S



Width	82mm
Max stroke	450mm.....111
Max load	50kg

• GTH12



Width	120mm
Max stroke	1250mm.....115
Max load	110kg

• GTH15



Width	150mm
Max stroke	1350mm.....117
Max load	120kg

Product index

03 P series module P.120

PTH series semi enclosed screw module

• PTH10



Width 102mm
Max stroke 1050mm.....121
Max load 50kg

• PTH12



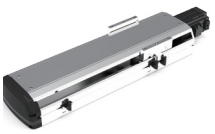
Width 102mm
Max stroke 1050mm.....124
Max load 50kg

• PTH13



Width 135mm
Max stroke 1050mm.....126
Max load 70kg

• PTH14



Width 135mm
Max stroke 1050mm.....128
Max load 110kg

• PTH17



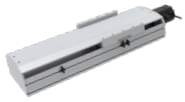
Width 170mm
Max stroke 1250mm.....130
Max load 120kg

• PTH22



Width 220mm
Max stroke 1500mm.....132
Max load 150kg

• PTH27



Width 270mm
Max stroke 2000mm.....134
Max load 200kg

PCH series fully enclosed screw module

• PCH14



Width 135mm
Max stroke 1050mm.....136
Max load 110kg

• PCH17



Width 170mm
Max stroke 1250mm.....138
Max load 120kg

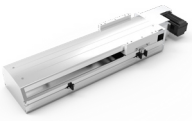
• PCH22



Width 220mm
Max stroke 1500mm.....140
Max load 150kg

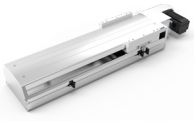
PTB series semi enclosed belt module

• PTB10



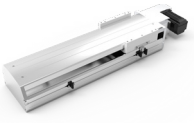
Width 102mm
Max stroke 2550mm.....142
Max load 10kg

• PTB14



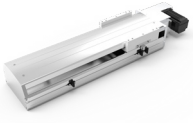
Width 135mm
Max stroke 3050mm.....145
Max load 25kg

• PTB17



Width 170mm
Max stroke 3050mm.....149
Max load 45kg

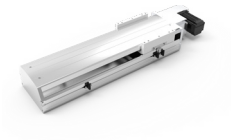
• PTB22



Width 220mm
Max stroke 3500mm.....153
Max load 85kg

Product index

- PTB27



Width 270mm
Max stroke 3000mm.....157
Max load 200kg

PCB series enclosed belt module

- PCB14



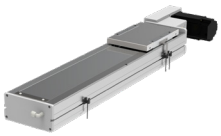
Width 135mm
Max stroke 3050mm.....159
Max load 25kg

- PCB17



Width 170mm
Max stroke 3050mm.....162
Max load 45kg

- PCB22



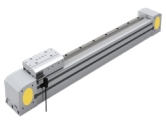
Width 220mm
Max stroke 3050mm.....165
Max load 85kg

P.168

04 Synchronous belt/belt/gear rack module series

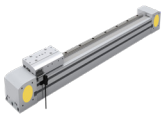
EGT series synchronous belt module

- EGT70



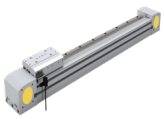
Width 69mm
Max stroke 5000mm.....170
Max load 15kg

- EGT80



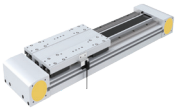
Width 84mm
Max stroke 5000mm.....174
Max load 20kg

- EGT120



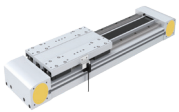
Width 120mm
Max stroke 6000mm.....178
Max load 70kg

- EGT125



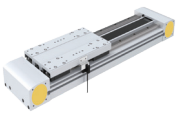
Width 124mm
Max stroke 6000mm.....180
Max load 40kg

- EGT160



Width 162mm
Max stroke 6000mm.....182
Max load 100kg

- EGT220



Width 224mm
Max stroke 6000mm.....184
Max load 200kg

- EGT 压块



...186

STP series economical belt module

- STP40



Width 40mm
Max stroke 4000mm.....190
Max load 3kg

- STP45



Width 45mm
Max stroke 4000mm.....192
Max load 10kg

Product index

- STP50



Width 50mm
Max stroke 4000mm.....194
Max load 15kg

- STP60



Width 60mm
Max stroke 4000mm.....196
Max load 20kg

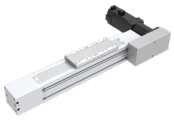
- STP80



Width 60mm
Max stroke 4000mm.....196
Max load 20kg

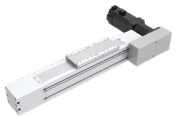
MK series synchronous belt module

- MK65



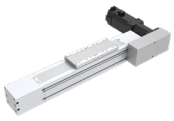
Width 65mm
Max stroke 6000mm.....202
Max load 60kg

- MK85



Width 85mm
Max stroke 6000mm.....209
Max load 100kg

- MK110



Width 110mm
Max stroke 6000mm.....216
Max load 200kg

- MK briquette



...217

M-series synchronous belt module

- M55X



Width 55mm
Max stroke 3000mm.....224
Max load 12kg

- M80



Width 75mm
Max stroke 6000mm.....226
Max load 75kg

- M112



Width 116mm
Max stroke 6000mm.....229
Max load 200kg

MX gear rack module

- MX140



Width 140mm
Max stroke 5000mm.....234
Max load 100kg

- MX178



Width 178mm
Max stroke 5000mm.....236
Max load 150kg

- MX210



Width 210mm
Max stroke 5000mm.....238
Max load 200kg

- MX270



Width 270mm
Max stroke 5300mm.....240
Max load 400kg

Product index

05 Electric cylinder series P.242

C series compact electric cylinder

• C12



Width 27mm
Max stroke 100mm.....243
Max load 5kg

• C16



Width 4mm
Max stroke 250mm.....245
Max load 8kg

• C25



Width 44mm
Max stroke 300mm.....248
Max load 20kg

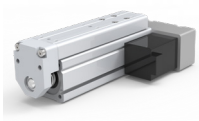
• C32



Width 51mm
Max stroke 300mm.....251
Max load 40kg

YH series high-precision electric slide table

• YH8



Width 34mm
Maximum track length 100mm.....255
Max load 6kg

• YH16



Width 45mm
Maximum track length 250mm.....258
Max load 12kg

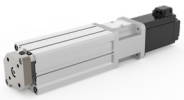
• YH25



Width 60mm
Maximum track length 300mm.....261
Max load 20kg

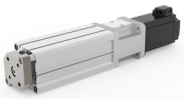
ECQ series guide rod embedded electric cylinc

• ECQ32



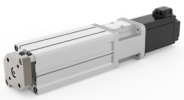
Width 45mm
Max stroke 100mm.....265
Max load 20kg

• ECQ40



Width 53mm
Max stroke 100mm.....267
Max load 24kg

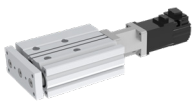
• ECQ50



Width 64mm
Max stroke 100mm.....269
Max load 27kg

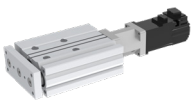
EG series guide rod electric cylinder

• EG16



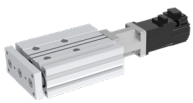
Width 83mm
Max stroke 100mm.....272
Max load 5kg

• EG20



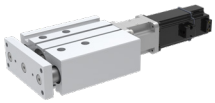
Width 93mm
Max stroke 100mm.....274
Max load 8kg

• EG25



Width 112mm
Max stroke 100mm.....276
Max load 24kg

• EG32

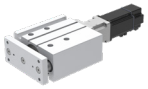


Width 148mm
Max stroke 100mm.....278
Max load 45kg

Product index

der

- EG40



Width 162mm
Max stroke 100mm.....280
Max load 60kg

EPY series electric slide table

- EPY6



Width 21mm
Max stroke 75mm.....283
Max load 2kg

- EPY10



Width 29mm
Max stroke 100mm.....284
Max load 6kg

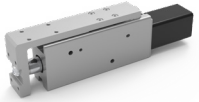
EPS series electric slide table

- EPS6



Width 21mm
Max stroke 75mm.....285
Max load 1kg

- EPS10



Width 29mm
Max stroke 100mm.....287
Max load 2kg

EMH series electric slide table (built-in motor)

- EMH28



Width 34mm
Max stroke 50mm.....289
Max load 7kg

- EMH42



Width 47mm
Max stroke 75mm.....289
Max load 15kg

EBQ series electric blocking cylinder

- EBQ32



Width 45mm
Unique stroke 20mm.....291

- EBQ50



Width 64mm
Unique stroke 30mm.....291

ES series standard cylinder electric cylinder

- ES40



Width 54mm
Max stroke 800mm.....297
Max load 300kg

- ES50



Width 64mm
Max stroke 1000mm.....299
Max load 500kg

- ES63



Width 75mm
Max stroke 1200mm.....302
Max load 700kg

- ES80



Width 85mm
Max stroke 1200mm.....304
Max load 1100kg

- ES100



Width 110mm
Max stroke 1500mm.....306
Max load 1700kg

Product index

- Attachment



.....308

A-series heavy-duty cylinder electric cylinder

- A80



Width 95mm
Max stroke 600mm.....330
Max load 3T

- A125



Width 134mm
Max stroke 600mm.....340
Max load 5T

- A140



Width 190mm
Max stroke 600mm.....346
Max load 15T

- A180



Width 230mm
Max stroke 600mm.....348
Max load 25T

ESIP series waterproof electric cylinder

- ESIP40



Width 54mm
Max stroke 800mm.....352
Max load 300kg

- ESIP50



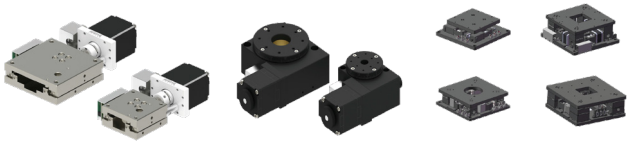
Width 64mm
Max stroke 1000mm.....354
Max load 500kg

- ESIP63



Width 75mm
Max stroke 1200mm.....357
Max load 700kg

06 Precision displacement platform P.359



07 Electric gripper P.421

- EHF32



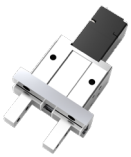
Width 51mm
Opening and closing stroke 64mm 424
Claw type two finger

- EHZ16



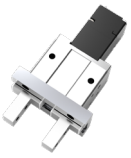
Width 28.5mm
Opening and closing stroke 10mm 436
Maximum clamping force 40N

- EHZ20



Width 28.5mm
Opening and closing stroke 10mm 438
Maximum clamping force 40N

- EHZ20



Width 28.5mm
Opening and closing stroke 10mm 440
Maximum clamping force 40N

- EHR32



Width 128mm
Opening and closing stroke 50mm 442
Maximum clamping force 140N

08 ERA series linear rotary actuator P.451



09 Variable distance module P.457



10 Precision planetary products P.460



11 Steering gear P.507



12 Backboard&Tank Chain Profile P.520



13 Information Collection Form/Reference Materials

Instructions for using 3D selection software P.521

Specification Index - Track Embedded Screw Sliding Platform Series

Model	Motor	Width mm	Repeatability	Screw specification (C7 grade)		Maximum transportable weight kg		Max speed mm/s
				outside diameter	Lead	horizontal	vertical	
GTH4	100W	44	±0.01	10	2	25	8	100
					6	20	8	300
					12	12	3.5	600
GTH5	100W	54	±0.01	12	2	30	10	100
					5	30	10	250
					10	15	5	500
					20	10	2.5	1000
GTH8	200W 400W	82	±0.01	16	5	50	15	250
					10	30	8	500
					20	18	3	1000
GTH12	400W	120	±0.01	16	5	110	33	250
					10	88	22	500
					20	40	10	1000
					32	30	8	1600
GTH15	750W	150	±0.01	20	5	120	50	250
					10	120	40	500
					20	83	25	1000
					40	43	12	2000

The black number representing the speed standard stroke indicates the maximum safe speed that can be used within that stroke.
If this speed is exceeded, the electric cylinder may resonate.

Specification Index - European Belt Sliding Platform Series

Model	Motor	Width mm	Repeatability	Belt lead mm	Max load kg			Max speed mm/s
					horizontal	Side hanging	vertical	
EGT70	400W	67	±0.08mm	78	15	5	-	3900
EGT80	400W	84		90	20	8	-	4500
EGT120	750W	120		125	70	30	-	2080
EGT125	400W	122		100	40	30	-	1666
EGT160	750W	160		125	100	80	-	2080
EGT220	1000W	200		208	200	150	-	2300
MK65	400W	65		110	60	30	-	1833
MK85	750W	85		200	100	40	-	2000
MK110	750W	110		248	200	50	-	1240

The black number representing the speed standard stroke indicates the maximum safe speed that can be used within that stroke.
If this speed is exceeded, the electric cylinder may resonate.

Specification Index - Push Rod Cylinder Series

Model	Motor	Width mm	Repeatability	Screw specification mm		Max load kg	Max speed mm/s
				diameter	Laed		
C12	S28	27	±0.02mm	8	2.5	5	40
C16	S28	34		8	2.5	8	40
					05		60
C25	S42	44		12	05	10	250
					10		500
C32	S57	51		12	05	40	250
					10		500
ES40	20	54		16	05	300	250
					10		500
					20		1000
ES50	40	64		20	05	500	250
					10		500
					20		1000
ES63	75	75		25	05	700	250
					10		500
					25		1250
ES80	100	95		32	05	1100	166
					10		333
					20		666
ES100	150	110		40	05	1700	166
					10		333
					20		666
A80	optional	95		32	05	1000-3000	166
					10		333
A125	optional	134		50	10	3000-5000	233
A140	optional	190		63	20	5000-10000	370
A180	optional	230		80	20	10000-25000	233

The black number representing the speed standard stroke indicates the maximum safe speed that can be used within that stroke.
If this speed is exceeded, the electric cylinder may resonate.

Standard stroke																									page
50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	
	100										90	80	70	60	50												99
	300										270	240	210	180	150												
	600										540	480	420	360	300												
	100											90	80	70	60												102
	250											270	200	175	150												
	500											450	400	350	300												
	1000											900	800	700	600												
	250														225	200	175	150	125	100	75						108
	500														450	400	350	300	250	200	150						
	1000														900	800	700	600	500	400	300						
	250															225	200	175	167	158	150	133	125	117			115
	500															450	400	350	333	317	300	267	250	233			
	1000															900	800	700	667	663	600	533	500	467			
	1600															1440	1280	1120	1067	1013	900	853	800	747			
	250														234	211	191	174	160	146	135	125	116	108			117
	500														468	422	383	349	319	293	270	250	232	216			
	1000														936	845	767	699	639	587	541	500	464	432			
	2000														1873	1690	1534	1398	1279	1175	1083	1000	928	863			

Standard stroke																							Page
100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	2000	2500	3000	3500	4000	4500	5000	6000	
																							170
																							174
																							178
																							180
																							182
																							184
																							202
																							209
																							216

Standard stroke																						Page
50	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500		
40																						243
40			30																			245
60			50																			
250			200	150																		248
500			400	300																		
250			200	150																		251
500			400	300																		
250				227	179	144	119	99	85	73	55	44										297
500				455	358	289	238	199	170	146	111	88										
1000				910	716	578	476	399	340	292	223	176										
250					235	191	158	133	113	97	75	59	48	39								299
500					471	382	316	266	226	195	150	118	96	79								
1000					943	764	632	532	453	391	300	237	192	159								
250						232	193	163	140	121	93	74	60	50	42	36						302
500						465	387	327	280	242	187	148	120	100	84	72						
1250						1164	969	818	700	607	467	371	302	250	211	180						
166										147	114	90	74	61	57	44						304
333										295	228	181	148	122	103	88						
666										591	456	363	296	245	207	177						
166											132	105	85	71	60	51	44	38	34			304
333											264	210	171	142	120	102	89	77	68			
666											528	421	343	285	240	205	178	155	137			
166																						330
333																						
233																						340
370																						346
333																						348

Specification Index - PCH Sliding Platform Series

Model	Motor	Width mm	Repeatability	Screw specification mm		Max load kg			Max speed mm/s
				diameter	Lead	horizontal	Side hanging	vertical	
PCH14	400W	135	±0.01	16	5	110	110	33	250
					10	88	88	22	500
					16	48	48	10	800
					20	40	40	8	1000
PCH17	750W	170	±0.01	20	5	120	120	50	250
					10	95	95	40	500
					20	83	83	25	1000
					40	50	50	12	2000
PCH22	750W	220	±0.01	25	5	150	-	55	250
					10	150	-	45	500
					25	105	-	20	1250

The white numbers representing the standard travel range indicate the maximum safe speed that can be used within that range. If this speed is exceeded, the electric cylinder may resonate.

Specification Index - PTH Sliding Platform Series

Model	Motor	Width mm	Repeatability	Screw specifications mm		Max load kg			Max speed mm/s
				diameter	lead	horizontal	Side hanging	vertical	
PTH10 (single slide)	200W	102	±0.01	16	5	50	50	12	250
					10	30	30	8	500
					16	22	22	5	800
					20	18	18	3	1000
PTH10 (double slides)	200W	102	±0.01	16	5	50	50	12	250
					10	30	30	8	500
					16	22	22	5	800
					20	18	18	3	1000
PTH12	200W	102	±0.01	16	5	50	50	12	250
					10	30	30	8	500
					16	22	22	5	800
					20	18	18	3	1000
PTH13	400W	135	±0.01	16	5	70	70	17	250
					10	47	47	12	500
					16	30	30	6	800
					20	24	24	4	1000
PTH14	400W	135	±0.01	16	5	110	110	33	250
					10	88	88	22	500
					16	48	48	10	800
					20	40	40	8	1000
PTH17	750W	170	±0.01	20	5	120	120	50	250
					10	95	95	40	500
					20	83	83	25	1000
					40	50	50	12	2000
PTH22	750W	220	±0.01	25	5	150	-	55	250
					10	150	-	45	500
					25	105	-	20	1250
PTH27 Motor3000rpm	1000W	270	±0.01	32	5	200	-	100	250
					10	200	-	80	500
					20	100	-	50	1000
					32	80	-	40	1600

The white numbers representing the standard travel range indicate the maximum safe speed that can be used within that range. If this speed is exceeded, the electric cylinder may resonate.

Standard stroke																													Page
100	200	300	400	500	600	700	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	
250							240	216	196	178	163	149	137	127	118	109													136
500							480	432	392	367	326	299	275	255	236	219													
800							768	692	627	571	522	479	441	408	378	351													
1000							960	865	784	714	653	599	551	510	472	439													
250							234	211	191	174	160	146	135	125	116	108													138
500							468	422	383	349	319	293	270	250	232	216													
1000							936	845	767	699	639	587	541	500	464	432													
2000							1873	1690	1534	1398	1279	1175	1083	1000	928	863													
250								236	215	197	181	168	155	144	134	125													140
500								472	431	395	364	336	311	289	269	251													
1250								1180	1078	988	909	840	778	722	673	628													

Standard stroke																											Page
100	200	300	400	500	600	700	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	
250						247	218	194	174	157	142	129															121
500						494	436	389	348	314	285	259															
800						790	699	622	558	503	456	415															
1000						987	873	778	697	629	570	518															
250							240	216	196	178	163	149															121
500							480	432	392	357	326	299															
800							768	692	627	571	522	479															
1000							960	865	784	714	653	599															
250						247	218	194	174	157	142	129															124
500						494	436	389	348	314	285	259															
800						790	699	622	558	503	456	415															
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500						494	436	389	348	314	285	259															
800						790	699	622	558	503	456	415															
1000						987	873	778	697	629	570	518															
250							240	216	196	178	163	149	137	127	118	109											128
500							480	432	392	357	326	299	275	255	236	219											
800							768	692	627	571	522	479	441	408	378	351											
1000							960	865	784	714	653	599	551	510	472	439											
250							234	211	191	174	160	146	135	125	116	108											130
500							468	422	383	349	319	293	270	250	232	216											
1000							936	845	767	699	639	587	541	500	464	432											
2000							1873	1690	1534	1398	1279	1175	1083	1000	928	863											
250								236	215	197	181	168	155	144	134	125											132
500								472	431	395	364	336	311	289	269	251											
1250								1180	1078	988	909	840	778	722	673	628											
250										236	218	201	187	174	162	151	141	133	125	118	111	105	100	94	89		134
500										473	436	403	374	348	324	303	283	266	250	236	222	210	200	188	179		
1000										947	872	806	748	695	648	606	567	532	500	472	444	420	400	377	358		
1600										1515	1396	1291	1197	1113	1037	969	908	852	800	755	712	673	640	604	573		

CERTIFICATE

ATTESTATION CERTIFICATE OF ELECTROMAGNETIC COMPATIBILITY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has been completed successfully.
2014/30/EU Electromagnetic Compatibility Directive and
2014/35/EU Low Voltage Directives have been taken as references for these processes

Company Name	: **Suzhou Scheler Intelligent Technology Co., Ltd.**
Company Address	: 2F, No. 6 Building, Zhengbei Road No. 88, High-tech Zone, Suzhou City, Jiangsu Province, China
Related Directives and Annex	: **2014/35/EU Low Voltage Directive** **2014/30/EU Electromagnetic Compatibility Directive**
Related Standards	: **EN 60204-1:2006+A1:2009+AC:2010, EN 61000-6-2:2005/AC:2005 EN 61000-6-4:2007/A1:2011, EN 61000-3-2:2014, EN 61000-3-3:2013**
Product Name	: **Linear Motor**
Report No and Date	: B-E191227400, B-S191227401
Product Brand/Model/Type	: SHELE / LM180, LM150, LM120, LMU80

Certificate Number	: **M.2020.206.C4469**
Initial Assessment Date	: 07.01.2020
Registration Date	: 08.01.2020
Reissue Date/No	: -
Expiry Date	: **07.01.2025**

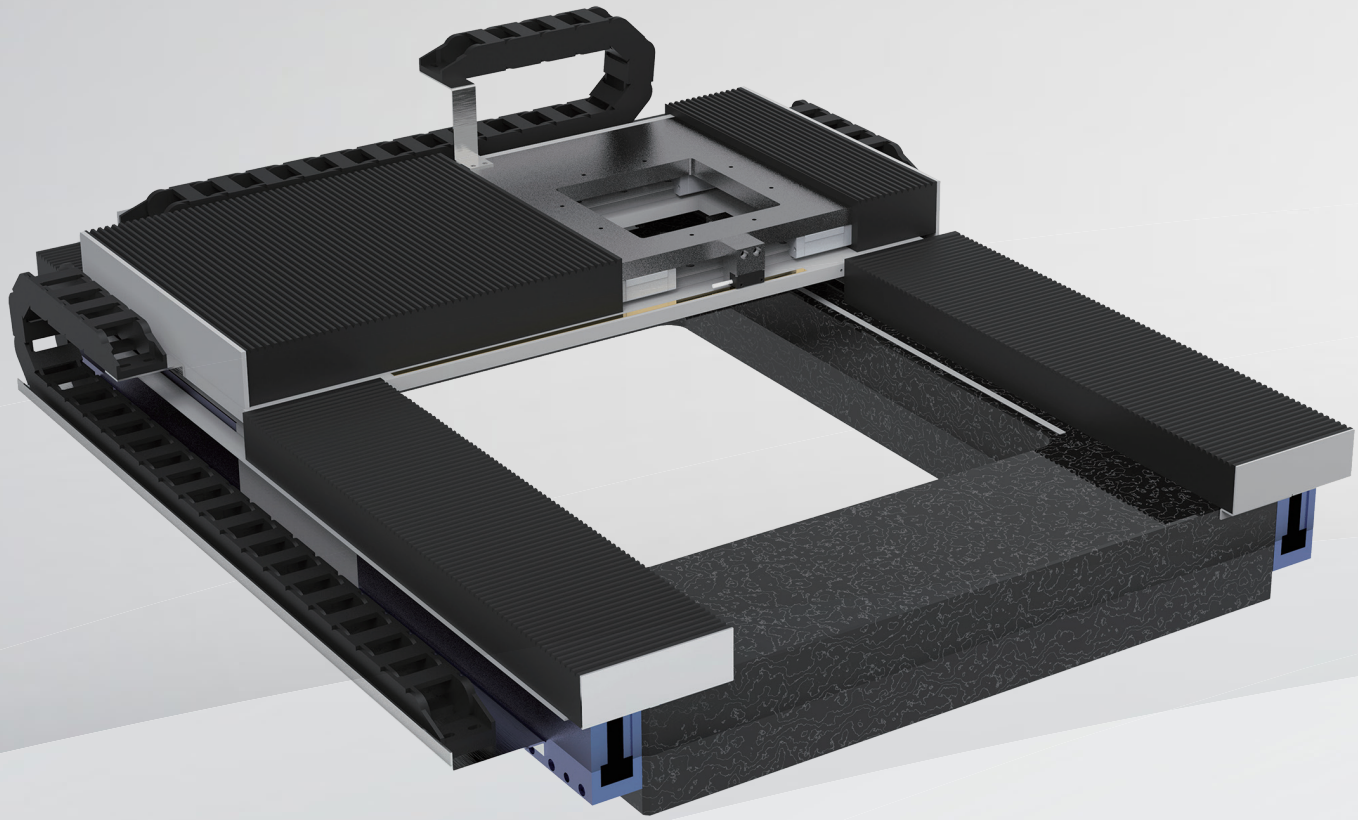
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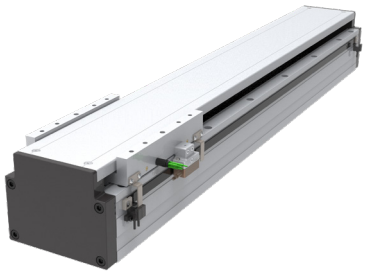
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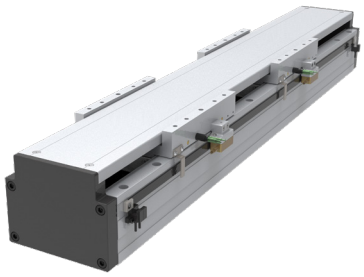
01 »»»

Linear motor



Linear motor module

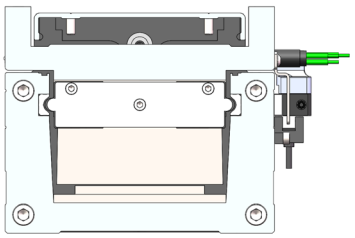




The LMA series has a higher degree of overall design compared to traditional direct drive motor modules, which can meet the requirements of high speed and high precision. LM and DDL series direct drive motors also have the requirements of high speed and high precision. They also have a huge load capacity, with a maximum continuous thrust of up to 3000N. Direct drive motors can achieve fast handling, screw locking, product coating, cutting and other processes, and are widely used.

1.High rigidity, compact structure

The LMA series integrates the sliding seat with the rotor, in the form of an embedded guide rail in the aluminum profile body, and integrates a grating ruler for position feedback, making the entire module size highly compact and rigid, providing users with size optimization choices under specific thrust requirements.

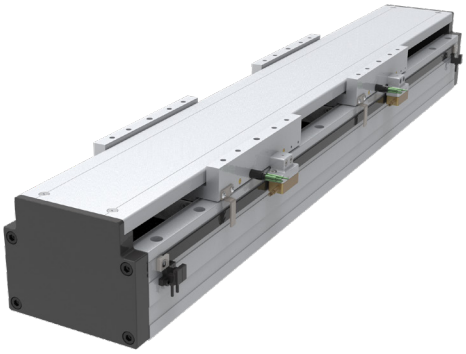


2.Long stroke

The LM series standard stroke can reach up to 5000mm, and the ultra long stroke can be customized according to customer needs.

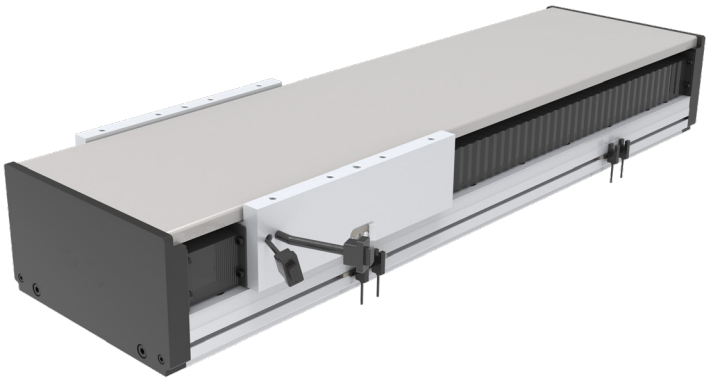
3.Multi action sub slide table

The entire series of linear motors can be installed with multiple sub sliding tables for individual control.

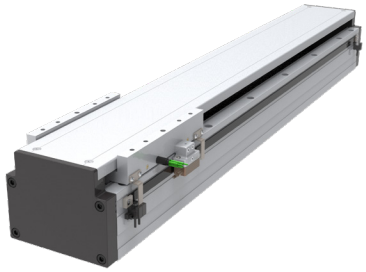


4.Customization

Linear motors can be customized for different applications of customers, including customized design of installation holes, wiring methods, appearance colors, etc.



LMA series iron core linear motor



Parameters		Notes	Symbol	Unit	LMA60		LMA90		LMA120
performance	Winding type				A	B	A	B	A
	Motor type, maximum voltage				Three phase permanent magnet synchronous motor, 400Vac rms (565Vdc)				
	Peak thrust @ 6 ℃ /s temperature rise	magnet@25℃	Fp	N	179	268	240	360	450
	Continuous thrust	coil@100℃	Fc	N	44.8	67	120	180	200
	Motor thrust constant	mount.sfc.@20℃	K	N/Arms	17.9	26.8	39	12.9	93
Electrical	Peak current	magnet@25℃	Ip	Arms	10	10	8.2	12.3	6.5
	Continuing current	coils@100℃	Ic	Arms	2.5	2.5	3	4.5	2.26
	The back EMF phases		Bemf	V/m/s	14.6	21.9	32	32	76
	Interphase resistance	coils@25℃	R	Ω	3.2	4.8	5.4	3.6	14.4
	Phase inductance	I<0.6Ip	Lph	mH	9.4	14.1	17	11.5	54
	Electrical time constant	coils@25℃	τe	ms	3		6.5		7.5
Machinery	Rotor weight	ex.cables	W	kg	0.25	0.45	0.9	1.3	1.5
	Pole pitch N-N		τ	mm	20		24		24

LMA-60

LMA60	-	L263	-	A	-	D1	-	C1	-	P1	-	S3	-	A001
Width		Base length		Motor style		Slides		Optical ruler		Resolution		Switches		Special tags
		203mm-983mm		A		D1: 1 slide		C1: Magnetic scale		P1: 1μm		S3: 3 switches		
		(60mm Interval)		B		D2:2 slides				P2:0.51μm		Sn:n switches		
												No: no switch		

Parameters

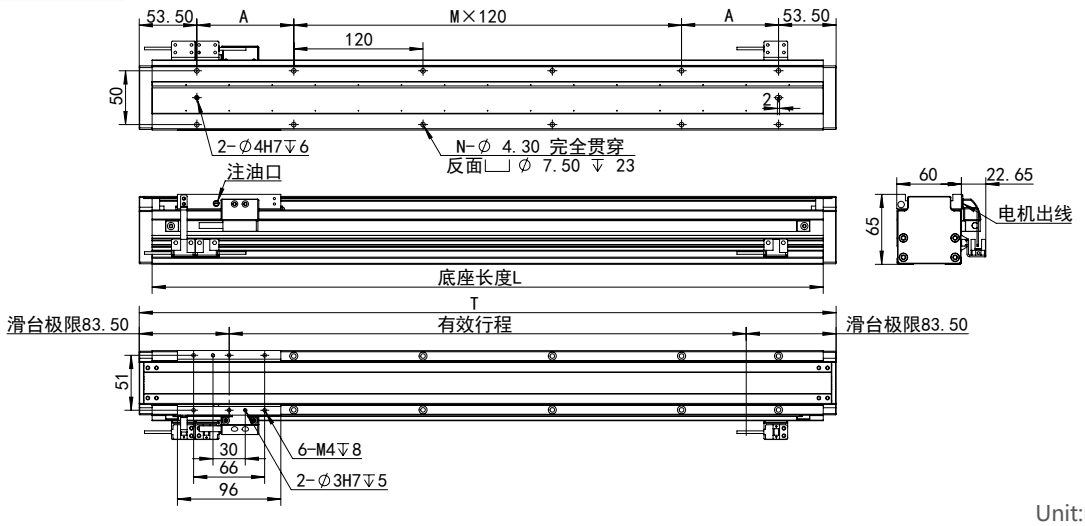
Parameter\Motor	A	B
Resolution (μm) [Max speed] (m/s)	1[2];0.5[1.4];0.1[1]	1[2];0.5[1.4];0.1[1]
Peak thrust(N)	176	268
Continuous thrust(N)	44	67
Maximum load(kg)※1	5	10
Moving part weight(kg)※2	0.6	0.85
Repeatable positioning accuracy(μm)	±5	±5

※1. Stroke 1000mm，Acceleration 1G，Residence time 0.2s，Speed 1000mm/s
※2. With the rotor's weight

Note: If an interferometer is required for compensation, the customer needs to provide the Z-direction position. If not provided, compensation will be made according to the maximum stroke on the sample booklet.



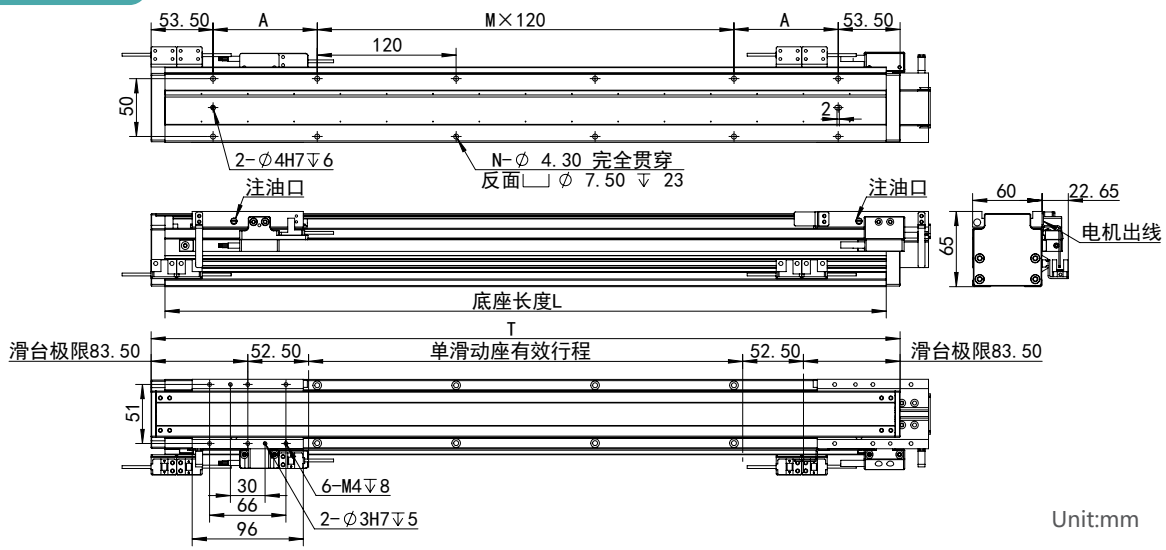
LMA-60-A-D1



Unit:mm

Base length	203	263	323	383	443	503	563	623	683	743	803	863	923	983
Stroke	60	120	180	240	300	360	420	480	540	600	660	720	780	840
T	227	287	347	407	467	527	587	647	707	767	827	887	947	1007
A	0	30	60	90	120	30	60	90	120	30	60	90	120	30
M	1	1	1	1	1	3	3	3	3	5	5	5	5	7
N	4	8	8	8	8	12	12	12	12	16	16	16	16	20
KG	2.2	2.52	2.84	3.16	3.48	3.8	4.12	4.44	4.76	5.08	5.4	5.72	6.04	6.36

LMA-60-A-D2

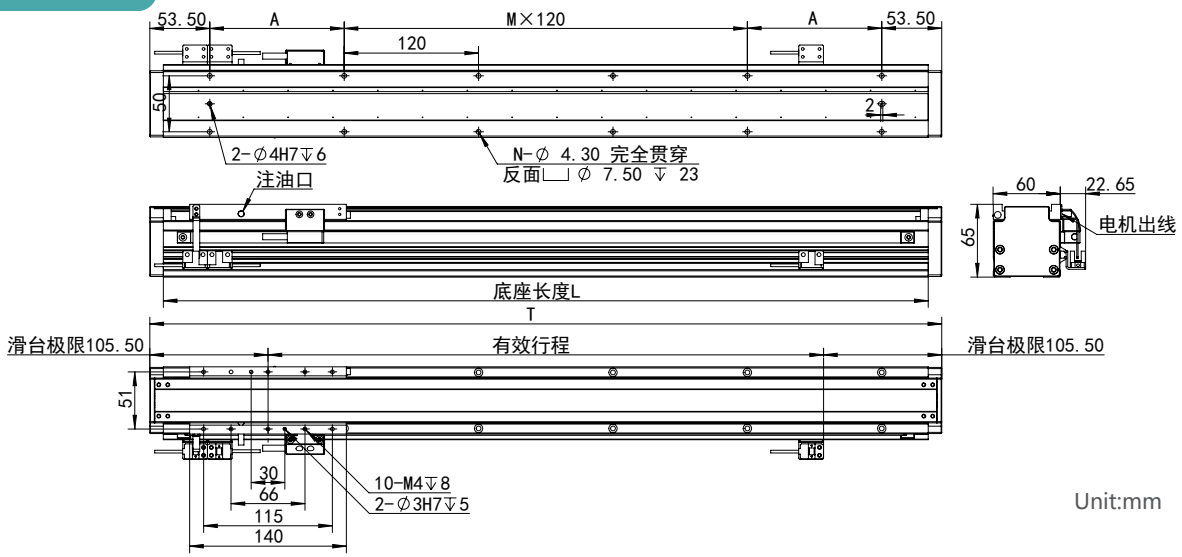


Unit:mm

Base length	203	263	323	383	443	503	563	623	683	743	803	863	923	983
Stroke	0	15	75	135	195	255	315	375	435	495	555	615	675	735
T	227	287	347	407	467	527	587	647	707	767	827	887	947	1007
A	0	30	60	90	120	30	60	90	120	30	60	90	120	30
M	1	1	1	1	1	3	3	3	3	5	5	5	5	7
N	4	8	8	8	8	12	12	12	12	16	16	16	16	20
KG	2.8	3.12	3.44	3.76	4.08	4.4	4.72	5.04	5.36	5.68	6	6.32	6.64	6.96

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

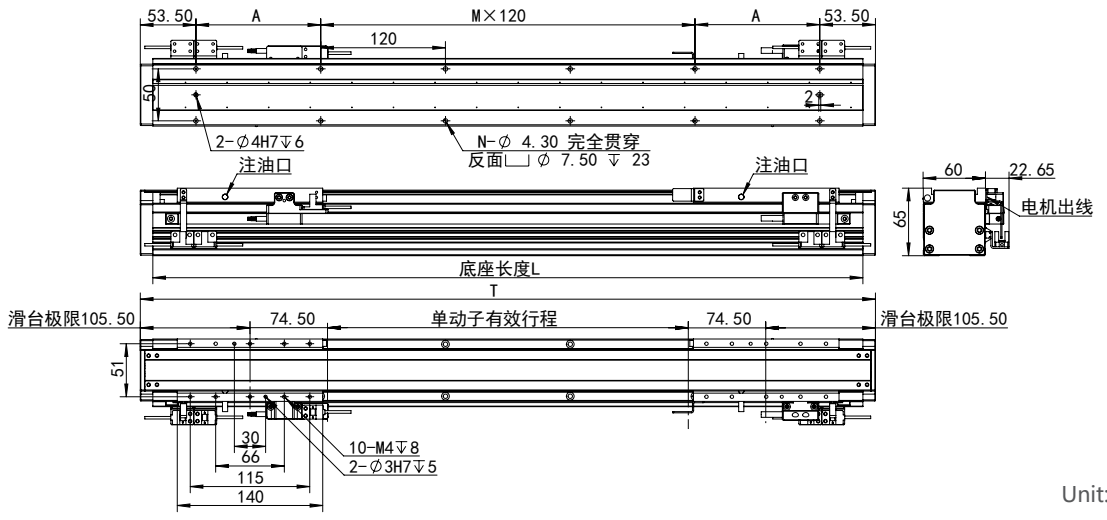
LMA-60-B-D1



Unit:mm

Base length	203	263	323	383	443	503	563	623	683	743	803	863	923	983
Stroke	16	76	136	196	256	316	376	436	496	556	616	676	736	796
T	227	287	347	407	467	527	587	647	707	767	827	887	947	1007
A	0	30	60	90	120	30	60	90	120	30	60	90	120	30
M	1	1	1	1	1	3	3	3	3	5	5	5	5	7
N	4	8	8	8	8	12	12	12	12	16	16	16	16	20
KG	2.45	2.77	3.09	3.41	3.73	4.05	4.37	4.69	5.01	5.33	5.65	5.97	6.29	6.61

LMA-60-B-D2



Unit:mm

Base length	203	263	323	383	443	503	563	623	683	743	803	863	923	983
Stroke	0	0	0	46	106	166	226	286	346	406	466	526	586	646
T	227	287	347	407	467	527	587	647	707	767	827	887	947	1007
A	0	30	60	90	120	30	60	90	120	30	60	90	120	30
M	1	1	1	1	1	3	3	3	3	5	5	5	5	7
N	4	8	8	8	8	12	12	12	12	16	16	16	16	20
KG	3.3	3.62	3.94	4.26	4.58	4.9	5.22	5.54	5.86	6.18	6.5	6.82	7.14	7.46

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

LMA-90

LMA90	-	L387	-	A	-	D1	-	C1	-	P1	-	S3	-	A001
Width		Base length		Motor style		Slides		Optical ruler		Resolution		Switches		Special tags
		291-1539mm		A		D1: 1 slide		C1: Magnetic scale		P1: 1μm		S3: 3 switches		
		(96mm Interval)		B		D2:2 slides				P2:0.51μm		Sn:n switches		
												No: no switch		

Parameters

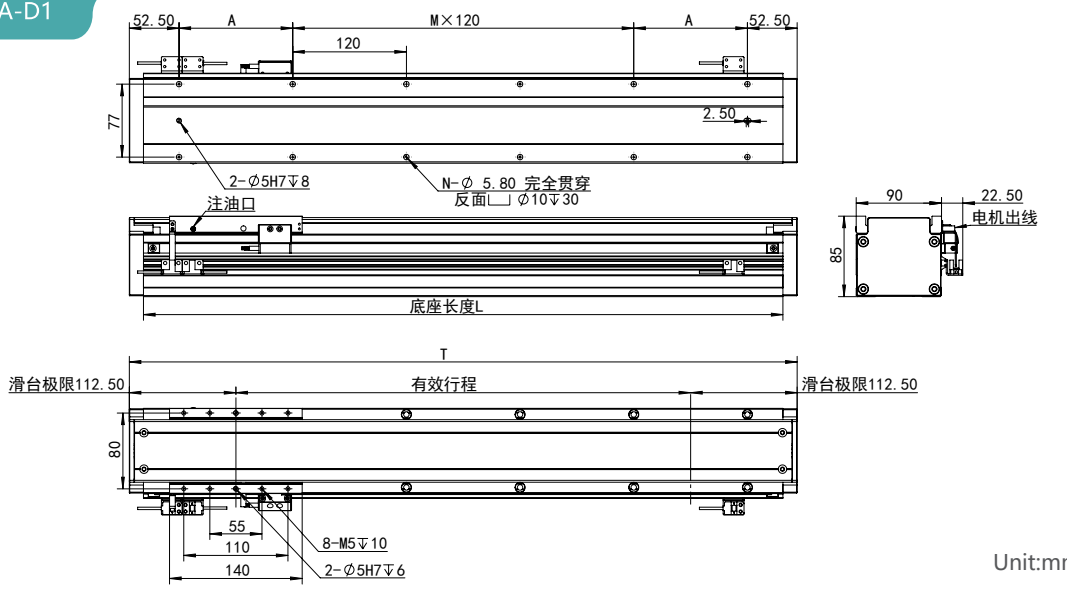
Parameter\Motor	A	B
Resolution (μm) [Max speed] (m/s)	1[2];0.5[1.4];0.1[1]	1[2];0.5[1.4];0.1[1]
Peak thrust(N)	240	360
Continuous thrust(N)	120	180
Maximum load(kg)※1	12	18
Moving part weight(kg)※2	1.5	2.1
Repeatable positioning accuracy(μm)	±5	±5

※1. Stroke 1000mm，Acceleration 1G，Residence time 0.2s，Speed 1000mm/s
※2. With the rotor's weight

Note: If an interferometer is required for compensation, the customer needs to provide the Z-direction position. If not provided, compensation will be made according to the maximum stroke on the sample booklet.



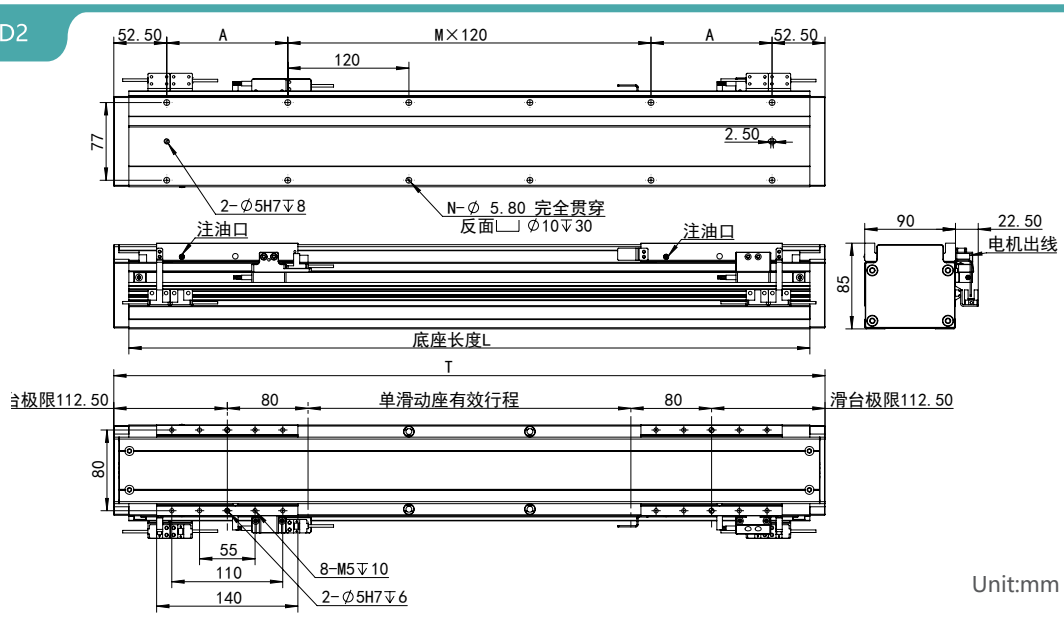
LMA-90-A-D1



Unit:mm

Base length	291	387	483	579	675	771	867	963	1059	1155	1251	1347	1443	1539
Stroke	96	192	288	384	480	576	672	768	864	960	1056	1152	1248	1344
T	321	417	513	609	705	801	897	993	1089	1185	1281	1377	1473	1569
A	48	96	24	72	120	48	96	24	72	120	48	96	24	72
M	1	1	3	3	3	5	5	7	7	7	9	9	11	11
N	8	8	12	12	12	16	16	20	20	20	24	24	28	28
KG	5	5.9	6.8	7.7	8.6	9.5	10.4	11.3	12.2	13.1	14	14.9	15.8	16.7

LMA-90-A-D2

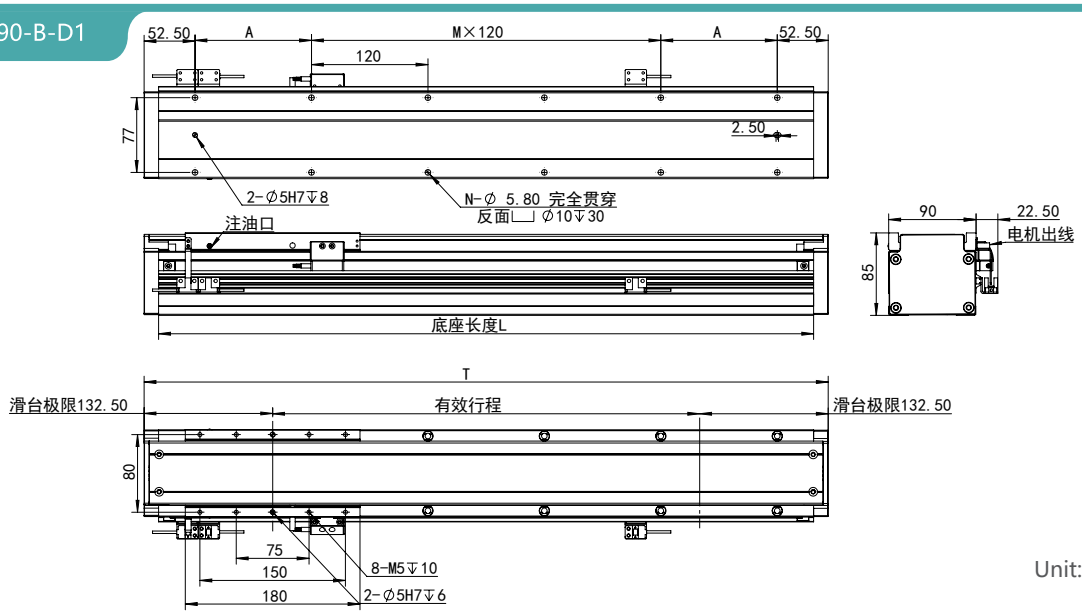


Unit:mm

Base length	291	387	483	579	675	771	867	963	1059	1155	1251	1347	1443	1539
Stroke	0	32	128	224	320	416	512	608	704	800	896	992	1088	1184
T	321	417	513	609	705	801	897	993	1089	1185	1281	1377	1473	1569
A	48	96	24	72	120	48	96	24	72	120	48	96	24	72
M	1	1	3	3	3	5	5	7	7	7	9	9	11	11
N	8	8	12	12	12	16	16	20	20	20	24	24	28	28
KG	6.5	7.4	8.3	9.2	10.1	11	11.9	12.8	13.7	14.6	15.5	16.4	17.3	18.2

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

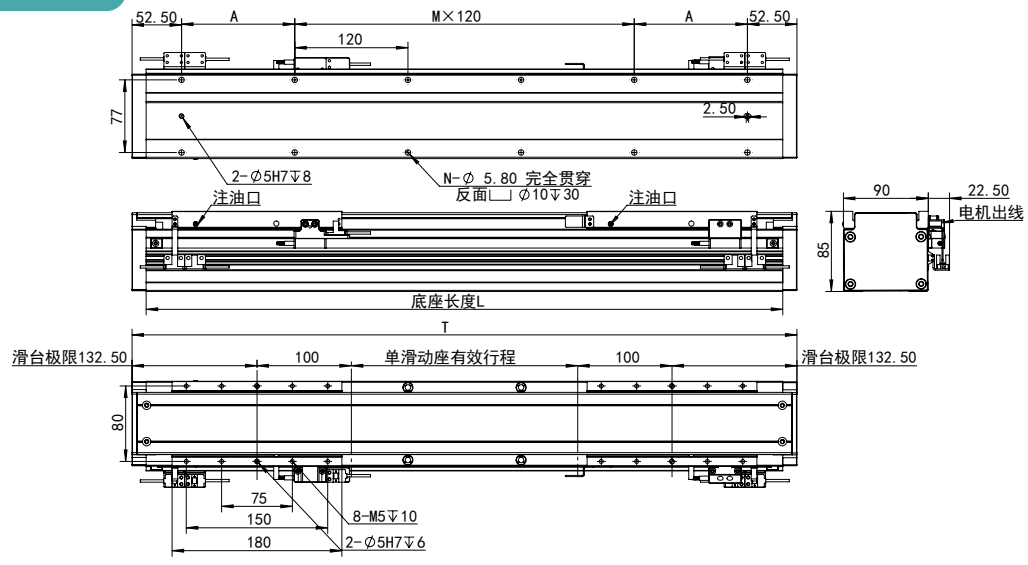
LMA-90-B-D1



Unit:mm

Base length	291	387	483	579	675	771	867	963	1059	1155	1251	1347	1443	1539
Stroke	56	152	248	344	440	536	632	728	824	920	1016	1112	1208	1304
T	321	417	513	609	705	801	897	993	1089	1185	1281	1377	1473	1569
A	48	96	24	72	120	48	96	24	72	120	48	96	24	72
M	1	1	3	3	3	5	5	7	7	7	9	9	11	11
N	8	8	12	12	12	16	16	20	20	20	24	24	28	28
KG	5.6	6.5	7.4	8.3	9.2	10.1	11	11.9	12.8	13.7	14.6	15.5	16.4	17.3

LMA-90-B-D2



Unit:mm

Base length	291	387	483	579	675	771	867	963	1059	1155	1251	1347	1443	1539
Stroke	0	0	48	144	240	336	432	528	624	720	816	912	1008	1104
T	321	417	513	609	705	801	897	993	1089	1185	1281	1377	1473	1569
A	48	96	24	72	120	48	96	24	72	120	48	96	24	72
M	1	1	3	3	3	5	5	7	7	7	9	9	11	11
N	8	8	12	12	12	16	16	20	20	20	24	24	28	28
KG	7.7	8.6	9.5	10.4	11.3	12.2	13.1	14	14.9	15.8	16.7	17.6	18.5	19.4

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

LMA-120

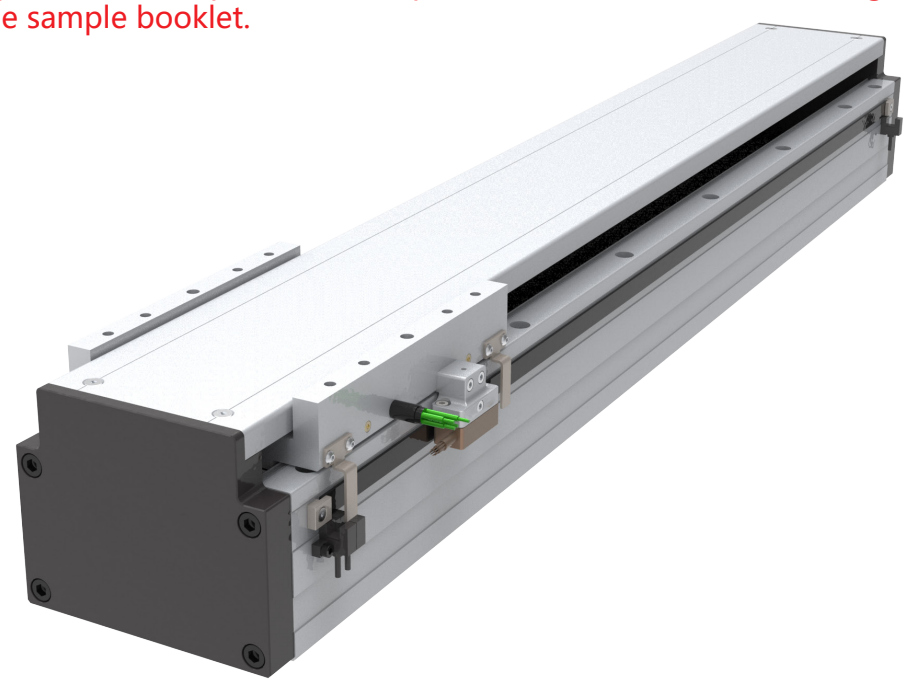
LMA120	-	L396	-	A	-	D1	-	C1	-	P1	-	S3	-	A001
Width		Base length		Motor style		Slides		Optical ruler		Resolution		Switches		Special tags
		300-1698mm		A		D1: 1 slide		C1: Magnetic scale		P1: 1μm		S3: 3 switches		
		(96mm Interval)		B		D2:2 slides				P2:0.51μm		Sn:n switches		
												No: no switch		

Parameters

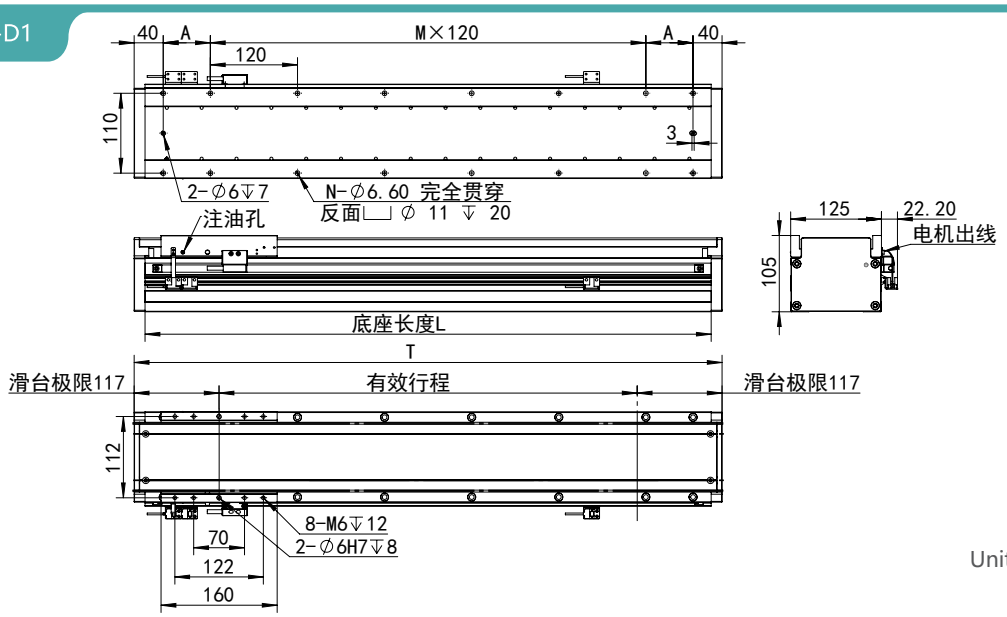
Parameter\Motor	A
Resolution (μm) [Max speed] (m/s)	1[2];0.5[1.4];0.1[1]
Peak thrust(N)	400
Continuous thrust(N)	200
Maximum load(kg)※1	20
Moving part weight(kg)※2	4
Repeatable positioning accuracy(μm)	±5

※1. Stroke 1000mm, Acceleration 1G, Residence time 0.2s, Speed 1000mm/s
※2. With the rotor's weight

Note: If an interferometer is required for compensation, the customer needs to provide the Z-direction position. If not provided, compensation will be made according to the maximum stroke on the sample booklet.



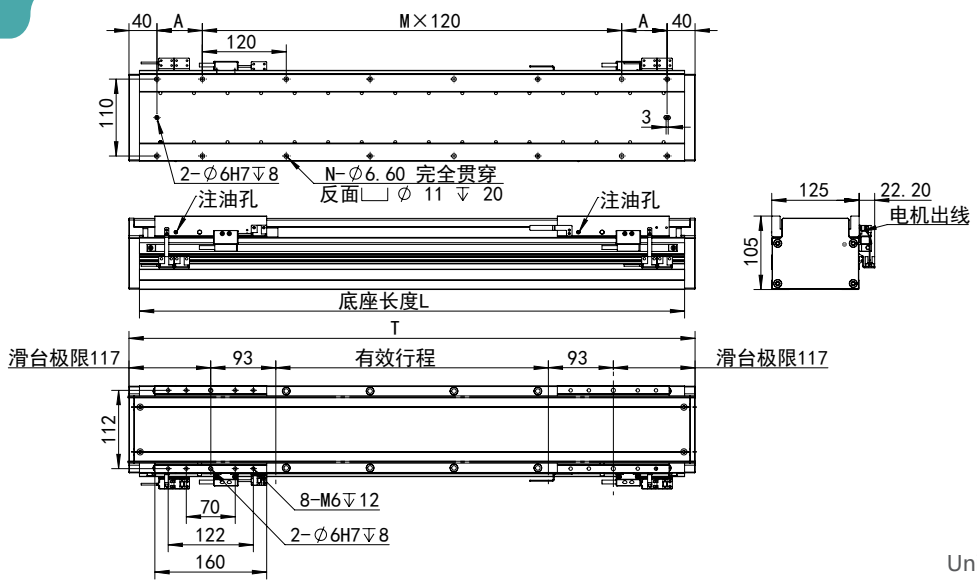
LMA-120-A-D1



Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932
Stroke	96	192	288	384	480	576	672	768	864	960	1056	1152	1248	1344	1440	1536	1632	1728
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962
A	65	113	41	89	17	65	113	41	89	17	65	113	41	89	17	65	113	41
M	1	1	3	3	5	5	5	7	7	9	9	9	11	11	13	13	13	15
N	8	8	12	12	16	16	16	20	20	24	24	24	28	28	32	32	32	36
KG	8.5	10	11.5	13	14.5	16	17.5	19	20.5	22	23.5	25	26.5	28	29.5	31	32.5	34

LMA-120-A-D2



Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932
Stroke	0	0	102	198	294	390	486	582	678	774	870	966	1062	1158	1254	1350	1446	1542
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962
A	65	113	41	89	17	65	113	41	89	17	65	113	41	89	17	65	113	41
M	1	1	3	3	5	5	5	7	7	9	9	9	11	11	13	13	13	15
N	8	8	12	12	16	16	16	20	20	24	24	24	28	28	32	32	32	36
KG	12.5	14	15.5	17	18.5	20	21.5	23	24.5	26	27.5	29	30.5	32	33.5	35	36.5	38

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL11

DDL11 - L300 - SL5003S - D1 - C1 - P1 - H - S3

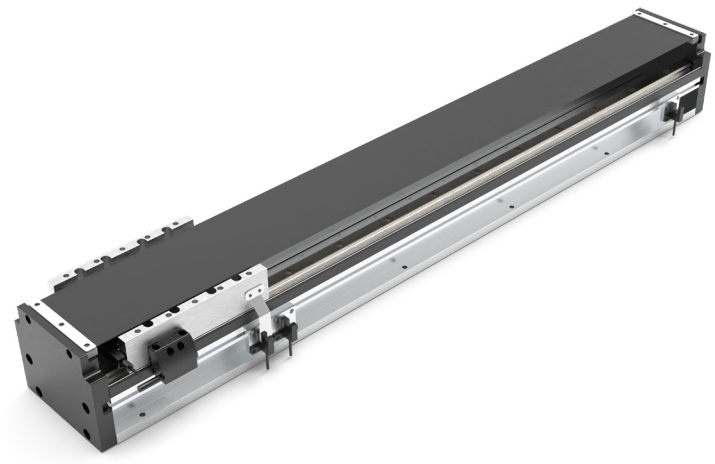
Width	Base length	Motor style	Slides	Optical ruler	Resolution	Hall	Switches
	300-4044mm	SL5003S	Dn: n slides	C0:No optical ruler	P1: 1μm	H:Hall	S1:N switches
	(96mm Interval)	SL5006S		C1:Magnescale	P2: 0.5μm	No: Without Hall	No: No switches
		SL5009S		C2:Grating ruler	P3: 0.1μm		
		SL5012S					

Parameters

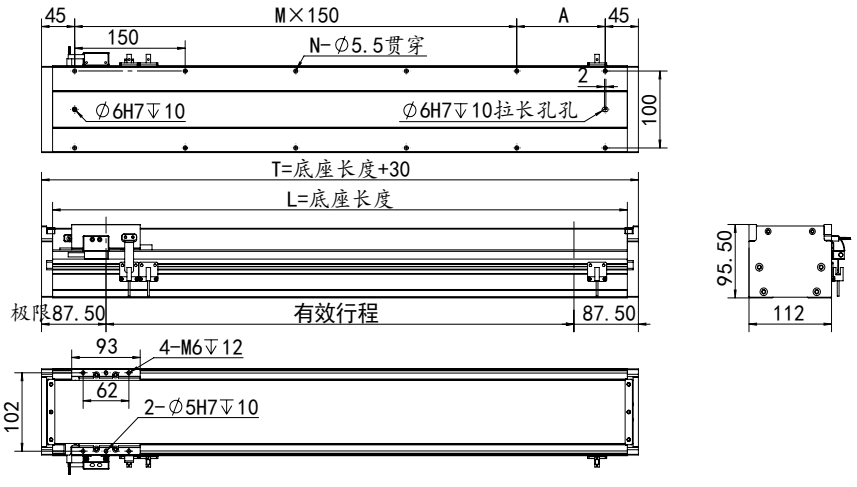
Rotor	SL5003	SL5006	SL5009	SL5012
Valid stroke (mm)	Base length -145	Base length -195	Base length-243	Base length -293
Reduce the stroke with each additional slide (mm)	119	169	217	267
Starting base length (mm)	300	300	300	396
Peak force (N)	105	210	315	420
Sustained force (N)	60	120	180	240
Rail specification	W15			
Number of sliders	2	4	4	6
Maximum load (Kg)	7	15	23	31
Rotor part weight (Kg)	2	2.5	3	4
Repeatable positioning accuracy (μm)	±5 (Magnescale) ±2 (Grating ruler)			

Note: The effective travel of the Hall sensor is reduced by 30mm compared to before.

Note: If an interferometer is required for compensation, the customer needs to provide the Z-direction position.
If not provided, compensation will be made according to the maximum stroke on the sample booklet.



DDL11-SL5003

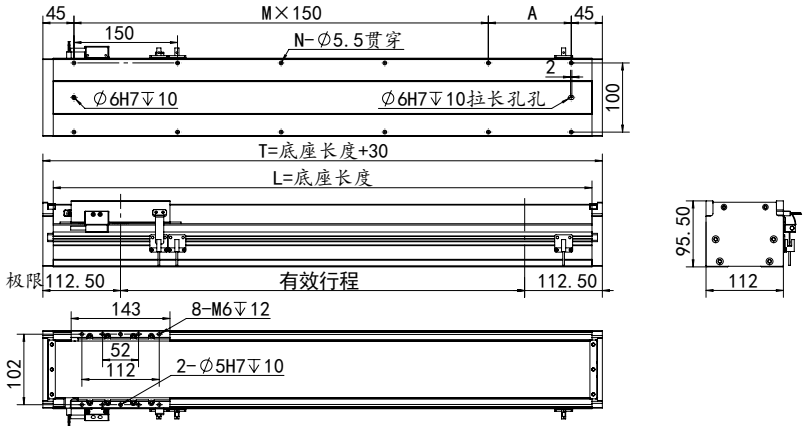


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	155	251	347	443	539	635	731	827	923	1019	1115	1211	1307	1403	1499	1595	1691	1787	1883	1979
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30
kg	5.69	6.83	7.97	9.11	10.25	11.39	12.53	13.67	14.81	15.95	17.09	18.23	19.37	20.51	21.65	22.79	23.93	25.07	26.21	27.35

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	2075	2171	2267	2363	2459	2555	2651	2747	2843	2939	3035	3131	3227	3323	3419	3515	3611	3707	3803	3899
T	2250	2346	2442	2538	2634	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074
A	60	156	102	48	144	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84
M	14	14	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56
kg	28.49	29.63	30.77	31.91	33.05	34.19	35.33	36.47	37.61	38.75	39.89	41.03	42.17	43.31	44.45	45.59	46.73	47.87	49.01	50.15

DDL11-SL5006



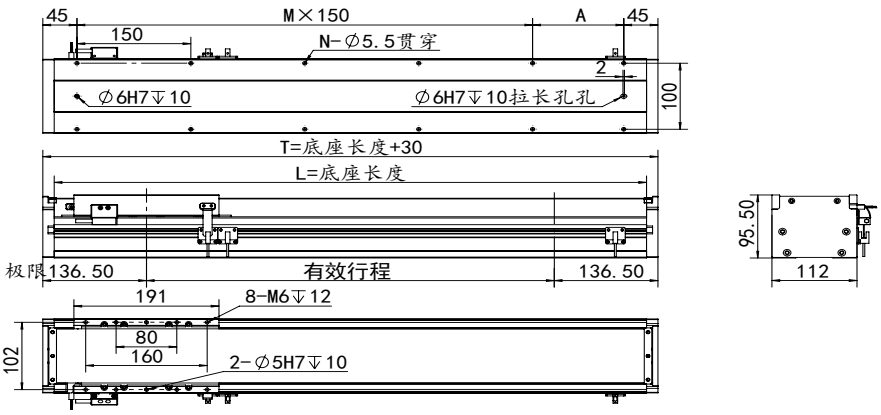
Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	105	201	297	393	489	585	681	777	873	969	1065	1161	1257	1353	1449	1545	1641	1737	1833	1929
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30
kg	6.56	7.7	8.84	9.98	11.12	12.26	13.4	14.54	15.68	16.82	17.96	19.1	20.24	21.38	22.52	23.66	24.8	25.94	27.08	28.22

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	2025	2121	2217	2313	2409	2505	2601	2697	2793	2889	2985	3081	3177	3273	3369	3465	3561	3657	3753	3849
T	2250	2346	2442	2538	2634	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074
A	60	156	102	48	144	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84
M	14	14	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56
kg	29.36	30.5	31.64	32.78	33.92	35.06	36.2	37.34	38.48	39.62	40.76	41.9	43.04	44.18	45.32	46.46	47.6	48.74	49.88	51.02

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL11-SL5009

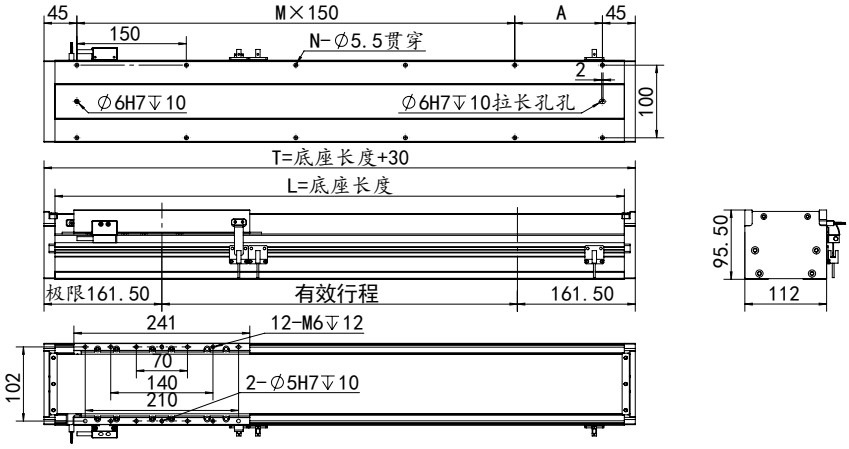


Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	57	153	249	345	441	537	633	729	825	921	1017	1113	1209	1305	1401	1497	1593	1689	1785	1881
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30
kg	7.17	8.31	9.45	10.59	11.73	12.87	14.01	15.15	16.29	17.43	18.57	19.71	20.85	21.99	23.13	24.27	25.41	26.55	27.69	28.83

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1977	2073	2169	2265	2361	2457	2553	2649	2745	2841	2937	3033	3129	3225	3321	3417	3513	3609	3705	3801
T	2250	2346	2442	2538	2634	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074
A	60	156	102	48	144	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84
M	14	14	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56
kg	29.97	31.11	32.25	33.39	34.53	35.67	36.81	37.95	39.09	40.23	41.37	42.51	43.65	44.79	45.93	47.07	48.21	49.35	50.49	51.63

Unit:mm

DDL11-SL5012



Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	7	103	199	295	391	487	583	679	775	871	967	1063	1159	1255	1351	1447	1543	1639	1735	1831
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30
kg	8.04	9.18	10.32	11.46	12.6	13.74	14.88	16.02	17.16	18.3	19.44	20.58	21.72	22.86	24	25.14	26.28	27.42	28.56	29.7

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1927	2023	2119	2215	2311	2407	2503	2599	2695	2791	2887	2983	3079	3175	3271	3367	3463	3559	3655	3751
T	2250	2346	2442	2538	2634	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074
A	60	156	102	48	144	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84
M	14	14	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56
kg	30.84	31.98	33.12	34.26	35.4	36.54	37.68	38.82	39.96	41.1	42.24	43.38	44.52	45.66	46.8	47.94	49.08	50.22	51.36	52.5

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL14M

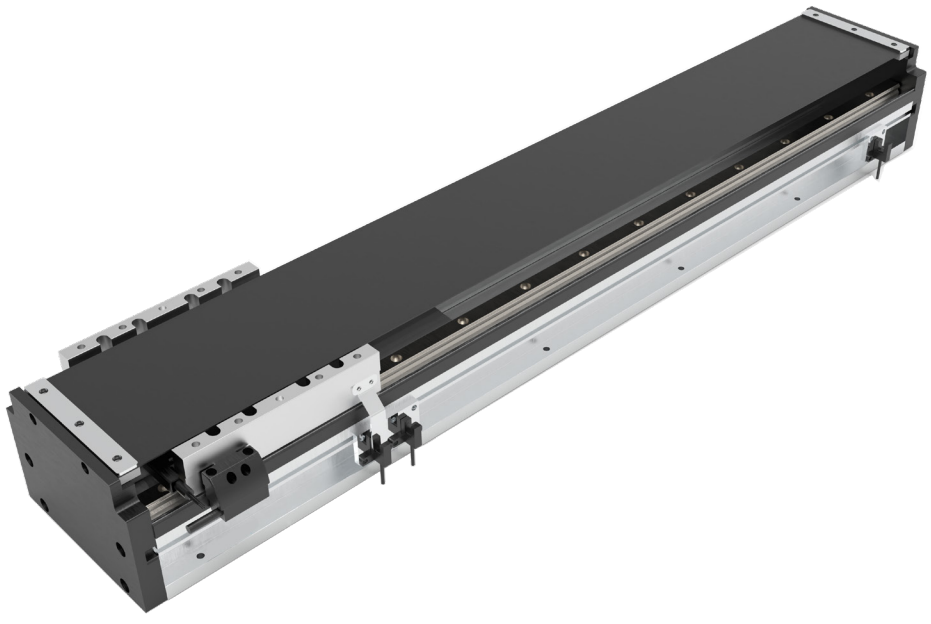
DDL14M - L300 - SL8006S - D1 - C1 - P1 - S3

Width	Base length	Motor style	Slides	Optical ruler	Resolution	Switches
	300-4004mm Note: 96mm interval	SL8006N/S SL8009N/S SL8012N/S SL8015N/S	Dn: n slide(s)	C0:No optical ruler C1:Magnescale C2:Grating ruler	P1: 1μm P2: 0.5μm P3: 0.1μm	S1::N switches No:No switches

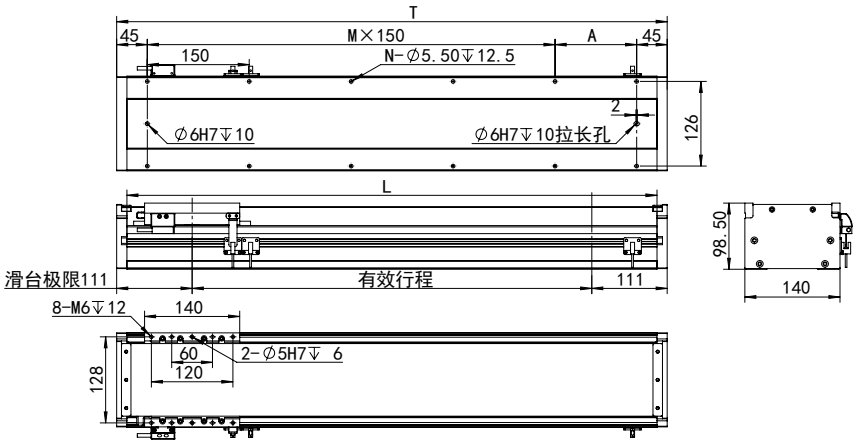
Parameters

Rotor	SL8006	SL8009	SL8012	SL8015
Valid stroke (mm)	Base length -192	Base length-242	Base length -292	Base length -342
Reduce the stroke with each additional slide (mm)	166	216	266	316
Starting base length (mm)	300	300	396	396
Peak force (N)	450	675	900	1125
Sustained force (N)	200	300	400	500
Rail specification	W15			
Number of sliders	4	4	6	6
Maximum load (Kg)	25	35	45	55
Rotor part weight (Kg)	4	5	6	7
Repeatable positioning accuracy (μm)	±5 (Magnescale) ±2 (Grating ruler)			

Note: If an interferometer is required for compensation, the customer needs to provide the Z-direction position.
If not provided, compensation will be made according to the maximum stroke on the sample booklet.



DDL14M-SL8006

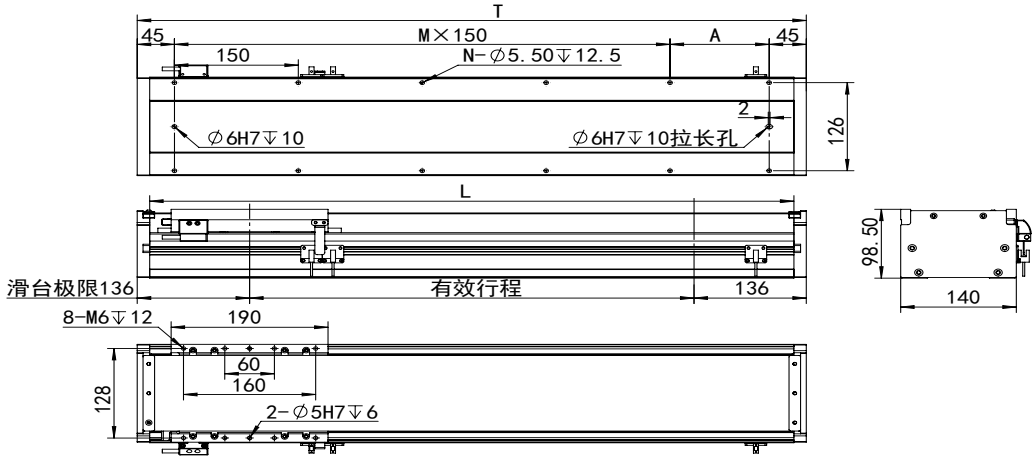


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	108	204	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30
kg	9.2	10.67	12.14	13.61	15.08	16.55	18.02	19.49	20.96	22.43	23.9	25.37	26.84	28.31	29.78	31.25	32.72	34.19	35.66	37.13

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	2028	2124	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852
T	2250	2346	2442	2538	2634	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074
A	60	156	102	48	144	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84
M	14	14	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56
kg	38.6	40.07	41.54	43.01	44.48	45.95	47.42	48.89	50.36	51.83	53.3	54.77	56.24	57.71	59.18	60.65	62.12	63.59	65.06	66.53

DDL14M-SL8009



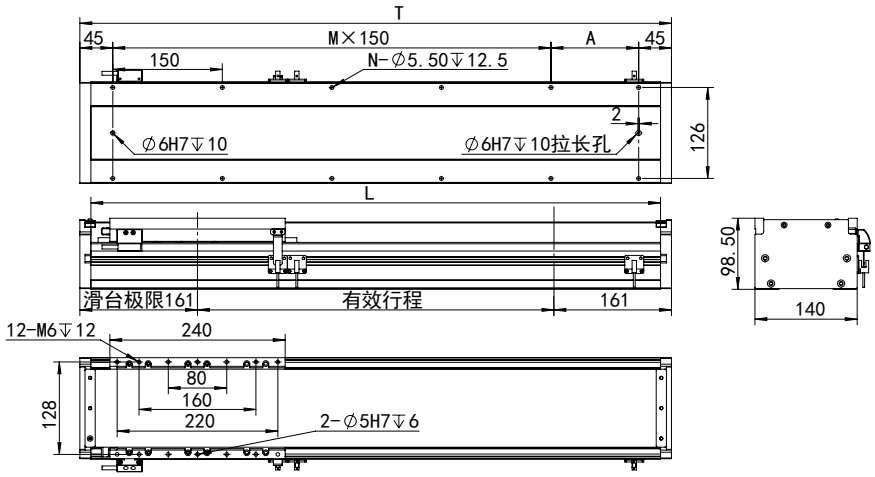
Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	58	154	250	346	442	538	634	730	826	922	1018	1114	1210	1306	1402	1498	1594	1690	1786	1882
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30
kg	10.05	11.52	12.99	14.46	15.93	17.4	18.87	20.34	21.81	23.28	24.75	26.22	27.69	29.16	30.63	32.1	33.57	35.04	36.51	37.98

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1978	2074	2170	2266	2362	2458	2554	2650	2746	2842	2938	3034	3130	3226	3322	3418	3514	3610	3706	3802
T	2250	2346	2442	2538	2634	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074
A	60	156	102	48	144	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84
M	14	14	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56
kg	39.45	40.92	42.39	43.86	45.33	46.8	48.27	49.74	51.21	52.68	54.15	55.62	57.09	58.56	60.03	61.5	62.97	64.44	65.91	67.38

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL14M-SL8012

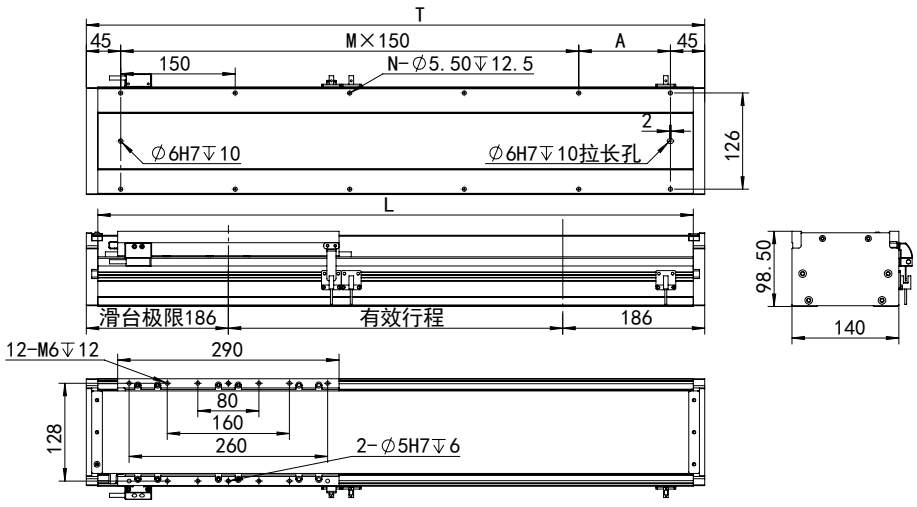


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	8	104	200	296	392	488	584	680	776	872	968	1064	1160	1256	1352	1448	1544	1640	1736	1832
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30
kg	11.34	12.81	14.28	15.75	17.22	18.69	20.16	21.63	23.1	24.57	26.04	27.51	28.98	30.45	31.92	33.39	34.86	36.33	37.8	39.27

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1928	2024	2120	2216	2312	2408	2504	2600	2696	2792	2888	2984	3080	3176	3272	3368	3464	3560	3656	3752
T	2250	2346	2442	2538	2634	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074
A	60	156	102	48	144	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84
M	14	14	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56
kg	40.74	42.21	43.68	45.15	46.62	48.09	49.56	51.03	52.5	53.97	55.44	56.91	58.38	59.85	61.32	62.79	64.26	65.73	67.2	68.67

DDL14M-SL8015



Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	42	54	150	246	342	438	534	630	726	822	918	1014	1110	1206	1302	1398	1494	1590	1686	1782
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30
kg	12.29	13.76	15.23	16.7	18.17	19.64	21.11	22.58	24.05	25.52	26.99	28.46	29.93	31.4	32.87	34.34	35.81	37.28	38.75	40.22

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1878	1974	2070	2166	2262	2358	2454	2550	2646	2742	2838	2934	3030	3126	3222	3318	3414	3510	3606	3702
T	2250	2346	2442	2538	2634	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074
A	60	156	102	48	144	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84
M	14	14	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56
kg	41.69	43.16	44.63	46.1	47.57	49.04	50.51	51.98	53.45	54.92	56.39	57.86	59.33	60.8	62.27	63.74	65.21	66.68	68.15	69.62

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL14

4 - L300 - SL5003S - D1 - C1 - P1 - H - S3 - OIL

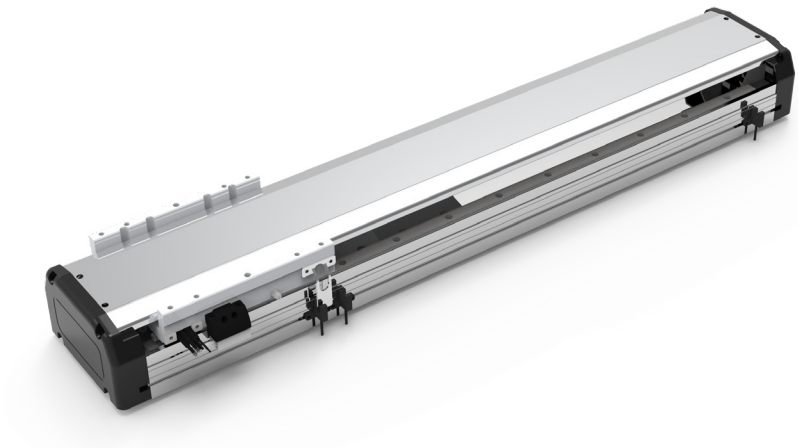
	Base length	Motor	Slides	Optical ruler	Resolution	Hall	Switches	Oiling
	300-5004mm	SL5003S	Dn: n slides	C0:No optical ruler	P1: 1μm	H: Hall	S1:n switches	No: No centralized
	Note: 96mm interval	SL5006S		C1:Magnetic scale	P2: 0.5μm	No: Without hall	No:No switch	oil injection function
		SL5009S		C2:Grating ruler	P3: 0.1μm			

Parameters

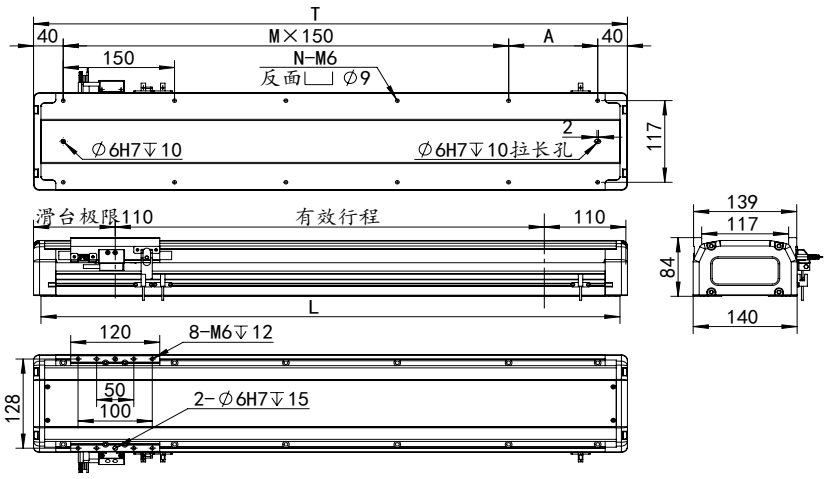
Rotor	SL5003	SL5006	SL5009
Valid stroke (mm)	Base length-200	Base length-250	Base length-300
Reduce the stroke with each additional slide (mm)	150	200	250
Starting base length (mm)	300	300	396
Peak force (N)	105	210	315
Sustained force (N)	60	120	180
Rail specification	W15		
Number of sliders	2	4	4
Maximum load (Kg)	7	15	23
Rotor part weight (Kg)	2	3	3.9
Repeatable positioning accuracy (μm)	±5 (Magnescale) ±2 (Grating ruler)		

※When the length of the base exceeds 1700mm, a steel strip type upper cover plate will be automatically selected.

Note: If an interferometer is required for compensation, the customer needs to provide the Z-direction position.
If not provided, compensation will be made according to the maximum stroke on the sample booklet.



DDL14-SL5003

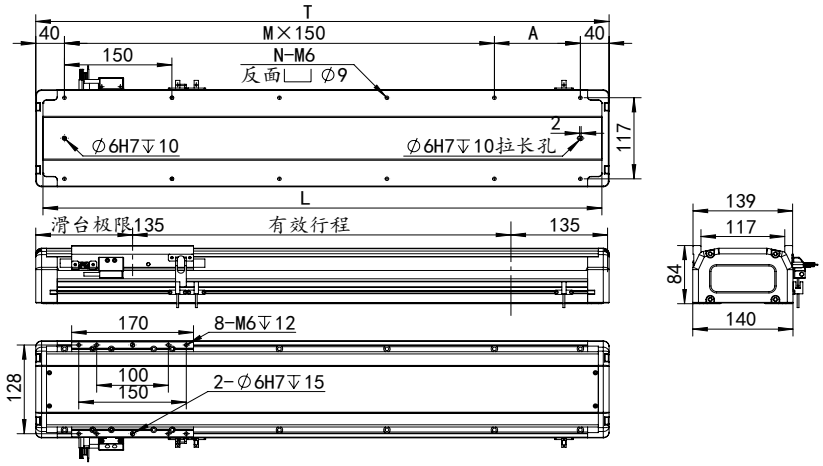


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	100	196	292	388	484	580	676	772	868	964	1060	1156	1252	1348	1444	1540	1636	1732	1828	1924	2020	2116	2212	2308	2404
T	320	416	512	608	704	800	896	992	1088	1184	1280	1376	1472	1568	1664	1760	1856	1952	2048	2144	2240	2336	2432	2528	2624
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114	60	156	102	48	144
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13	14	14	15	16	16
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30	32	32	34	36	36
kg	5.65	6.8	7.95	9.1	10.25	11.4	12.55	13.7	14.85	16	17.15	18.3	19.45	20.6	21.75	22.9	24.05	25.2	26.35	27.5	28.65	29.8	30.95	32.1	33.25

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2500	2596	2692	2788	2884	2980	3076	3172	3268	3364	3460	3556	3652	3748	3844	3940	4036	4132	4228	4324	4420	4516	4612	4708	4804
T	2720	2816	2912	3008	3104	3200	3296	3392	3488	3584	3680	3776	3872	3968	4064	4160	4256	4352	4448	4544	4640	4736	4832	4928	5024
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114	60	156	102	48	144
M	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26	27	27	28	28	29	30	30	31	32	32
N	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56	58	58	60	60	62	64	64	66	68	68
kg	34.4	35.55	36.7	37.85	39	40.15	41.3	42.45	43.6	44.75	45.9	47.05	48.2	49.35	50.5	51.65	52.8	53.95	55.1	56.25	57.4	58.55	59.7	60.85	62

DDL14-SL5006



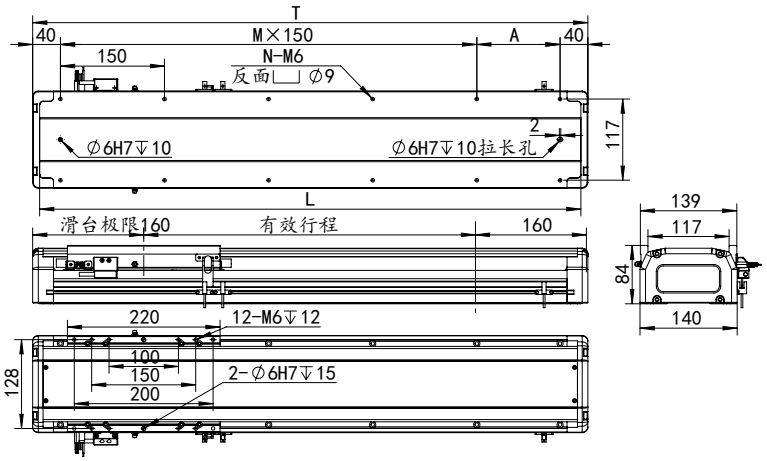
Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	50	146	242	338	434	530	626	722	818	914	1010	1106	1202	1298	1394	1490	1586	1682	1778	1874	1970	2066	2162	2258	2354
T	320	416	512	608	704	800	896	992	1088	1184	1280	1376	1472	1568	1664	1760	1856	1952	2048	2144	2240	2336	2432	2528	2624
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114	60	156	102	48	144
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13	14	14	15	16	16
N	6	8	8	10	12	12	14	14	16	18	20	22	22	22	24	26	26	28	28	30	32	32	34	36	36
kg	6.65	7.8	8.95	10.1	11.25	12.4	13.55	14.7	15.85	17	18.15	19.3	20.45	21.6	22.75	23.9	25.05	26.2	27.35	28.5	29.65	30.8	31.95	33.1	34.25

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2450	2546	2642	2738	2834	2930	3026	3122	3218	3314	3410	3506	3602	3698	3794	3890	3986	4082	4178	4274	4370	4466	4562	4658	4754
T	2720	2816	2912	3008	3104	3200	3296	3392	3488	3584	3680	3776	3872	3968	4064	4160	4256	4352	4448	4544	4640	4736	4832	4928	5024
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114	60	156	102	48	144
M	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26	27	27	28	28	29	30	30	31	32	32
N	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56	58	58	60	60	62	64	64	66	68	68
kg	35.4	36.55	37.7	38.85	40	41.15	42.3	43.45	44.6	45.75	46.9	48.05	49.2	50.35	51.5	52.65	53.8	54.95	56.1	57.25	58.4	59.55	60.7	61.85	63

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL14-SL5009



Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	0	96	192	288	384	480	576	672	768	864	960	1056	1152	1248	1344	1440	1536	1632	1728	1824	1920	2016	2112	2208	2304
T	320	416	512	608	704	800	896	992	1088	1184	1280	1376	1472	1568	1664	1760	1856	1952	2048	2144	2240	2336	2432	2528	2624
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114	60	156	102	48	144
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13	14	14	15	16	16
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30	32	32	34	36	36
kg	7.55	8.7	9.85	11	12.15	13.3	14.45	15.6	16.75	17.9	19.05	20.2	21.35	22.5	23.65	24.8	25.95	27.1	28.25	29.4	30.55	31.7	32.85	34	35.15

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2400	2496	2592	2688	2784	2880	2976	3072	3168	3264	3360	3456	3552	3648	3744	3840	3936	4032	4128	4224	4320	4416	4512	4608	4704
T	2720	2816	2912	3008	3104	3200	3296	3392	3488	3584	3680	3776	3872	3968	4064	4160	4256	4352	4448	4544	4640	4736	4832	4928	5024
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114	60	156	102	48	144
M	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26	27	27	28	28	29	30	30	31	32	32
N	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56	58	58	60	60	62	64	64	66	68	68
kg	36.3	37.45	38.6	39.75	40.9	42.05	43.2	44.35	45.5	46.65	47.8	48.95	50.1	51.25	52.4	53.55	54.7	55.85	57	58.15	59.3	60.45	61.6	62.75	63.9

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL17

DDL17 - L396 - SL8006S - D1 - C1 - P1 - H - S3 - OIL

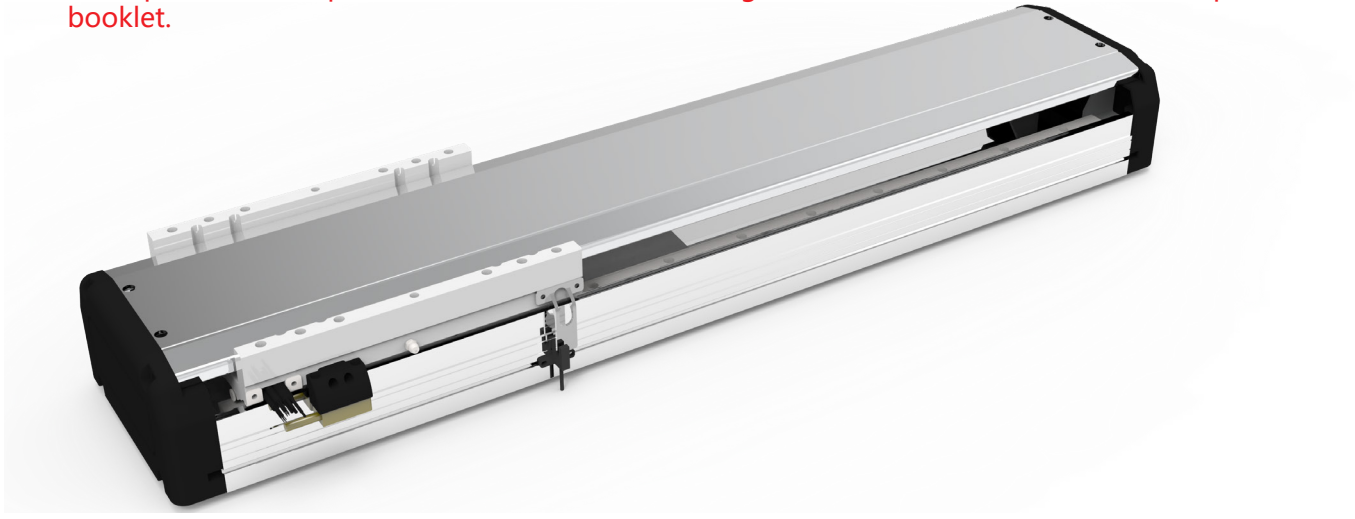
Width	Base length	Motor	Slides	Optical ruler	Resolution	Hall	Switches	Oiling
	396-5004mm	SL8006S	Dn: n slides	C0:No optical ruler	P1: 1μm	H: Hall	S1:n switches	No: No centralized
	Note: 96mm interval	SL8006N		C1:Magnetic scale	P2: 0.5μm	No: Without hall	No:No switch	oil injection functio
		SL8009S		C2:Grating ruler	P3: 0.1μm			
		SL8009N						
		SL8012S						
		SL8012N						

Parameters

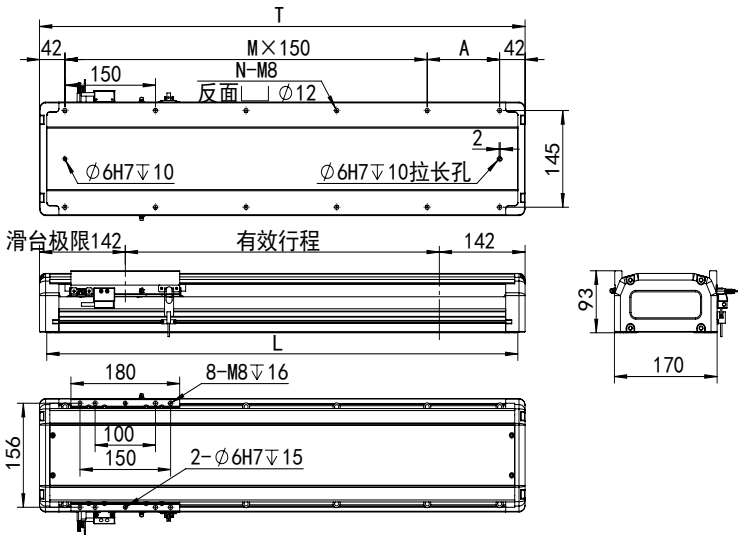
Rotor	SL8006	SL8009	SL8012
Valid stroke (mm)	Base length-260	Base length-310	Base length-360
Reduce the stroke with each additional slide (mm)	210	260	310
Starting base length (mm)	396	396	492
Peak force (N)	400	600	800
Sustained force (N)	200	300	400
Rail specification	W15		
Number of sliders	4	4	6
Maximum load (Kg)	25	35	45
Rotor part weight (Kg)	4	5	6.6
Repeatable positioning accuracy (μm)	±5 (Magnescale) ±2 (Grating ruler)		

※When the length of the base exceeds 2000mm, a steel strip type upper cover plate will be automatically selected.

Note: If an interferometer is required for compensation, the customer needs to provide the Z-direction position.
If not provided, compensation will be made according to the maximum stroke on the sample booklet.



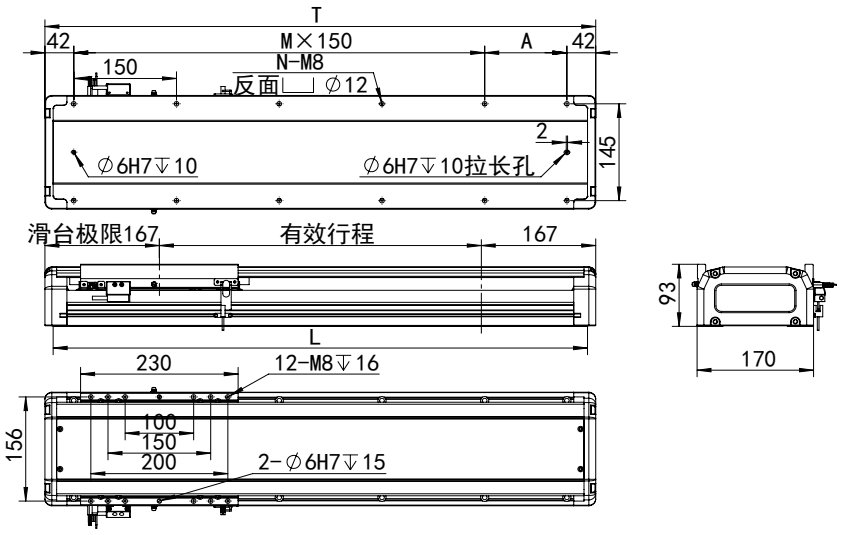
DDL17-SL8006



Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	40	136	232	328	424	520	616	712	808	904	1000	1096	1192	1288	1384	1480	1576	1672	1768	1864	1960	2056	2152	2248	2344
T	324	420	516	612	708	804	900	996	1092	1188	1284	1380	1476	1572	1668	1764	1860	1956	2052	2148	2244	2340	2436	2532	2628
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114	60	156	102	48	144
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13	14	14	15	16	16
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30	32	32	34	36	36
kg	9.18	10.86	12.54	14.22	15.9	17.58	19.26	20.94	22.62	24.3	25.98	27.66	29.34	31.02	32.7	34.38	36.06	37.74	39.42	41.1	42.78	44.46	46.14	47.82	49.5
Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2440	2536	2632	2728	2824	2920	3016	3112	3208	3304	3400	3496	3592	3688	3784	3880	3976	4072	4168	4264	4360	4456	4552	4648	4744
T	2724	2820	2916	3012	3108	3204	3300	3396	3492	3588	3684	3780	3876	3972	4068	4164	4260	4356	4452	4548	4644	4740	4836	4932	5028
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114	60	156	102	48	144
M	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26	27	27	28	28	29	30	30	31	32	32
N	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56	58	58	60	60	62	64	64	66	68	68
kg	51.18	52.86	54.54	56.22	57.9	59.58	61.26	62.94	64.62	66.3	67.98	69.66	71.34	73.02	74.7	76.38	78.06	79.74	81.42	83.1	84.78	86.46	88.14	89.82	91.5

DDL17-SL8009

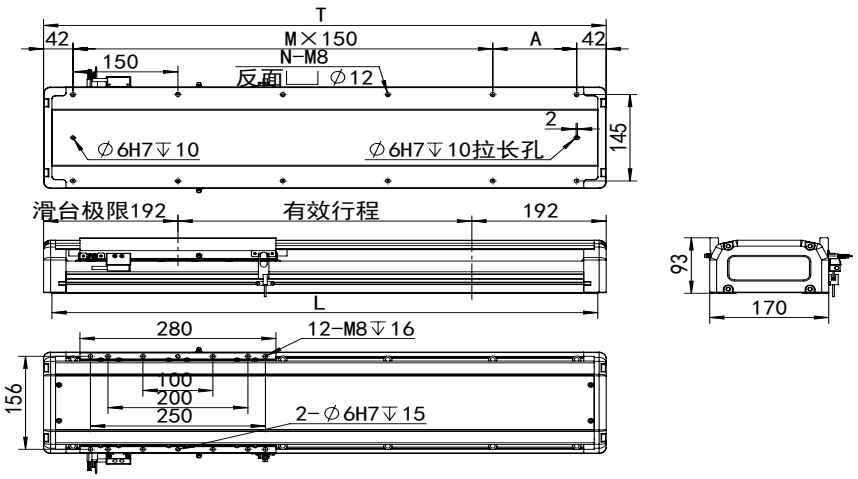


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	10	86	182	278	374	470	566	662	758	854	950	1046	1142	1238	1334	1430	1526	1622	1718	1814	1910	2006	2102	2198	2294
T	324	420	516	612	708	804	900	996	1092	1188	1284	1380	1476	1572	1668	1764	1860	1956	2052	2148	2244	2340	2436	2532	2628
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114	60	156	102	48	144
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13	14	14	15	16	16
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30	32	32	34	36	36
kg	10.18	11.86	13.54	15.22	16.9	18.58	20.26	21.94	23.62	25.3	26.98	28.66	30.34	32.02	33.7	35.38	37.06	38.74	40.42	42.1	43.78	45.46	47.14	48.82	50.5
Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2390	2486	2582	2678	2774	2870	2966	3062	3158	3254	3350	3446	3542	3638	3734	3830	3926	4022	4118	4214	4310	4406	4502	4598	4694
T	2724	2820	2916	3012	3108	3204	3300	3396	3492	3588	3684	3780	3876	3972	4068	4164	4260	4356	4452	4548	4644	4740	4836	4932	5028
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114	60	156	102	48	144
M	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26	27	27	28	28	29	30	30	31	32	32
N	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56	58	58	60	60	62	64	64	66	68	68
kg	52.18	53.86	55.54	57.22	58.9	60.58	62.26	63.94	65.62	67.3	68.98	70.66	72.34	74.02	75.7	77.38	79.06	80.74	82.42	84.1	85.78	87.46	89.14	90.82	92.5

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL17-SL8012



Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	60	36	132	228	324	420	516	612	708	804	900	996	1092	1188	1284	1380	1476	1572	1668	1764	1860	1956	2052	2148	2244
T	324	420	516	612	708	804	900	996	1092	1188	1284	1380	1476	1572	1668	1764	1860	1956	2052	2148	2244	2340	2436	2532	2628
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114	60	156	102	48	144
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13	14	14	15	16	16
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30	32	32	34	36	36
kg	11.78	13.46	15.14	16.82	18.5	20.18	21.86	23.54	25.22	26.9	28.58	30.26	31.94	33.62	35.3	36.98	38.66	40.34	42.02	43.7	45.38	47.06	48.74	50.42	52.1

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2340	2436	2532	2628	2724	2820	2916	3012	3108	3204	3300	3396	3492	3588	3684	3780	3876	3972	4068	4164	4260	4356	4452	4548	4644
T	2724	2820	2916	3012	3108	3204	3300	3396	3492	3588	3684	3780	3876	3972	4068	4164	4260	4356	4452	4548	4644	4740	4836	4932	5028
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114	60	156	102	48	144
M	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26	27	27	28	28	29	30	30	31	32	32
N	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56	58	58	60	60	62	64	64	66	68	68
kg	53.78	55.46	57.14	58.82	60.5	62.18	63.86	65.54	67.22	68.9	70.58	72.26	73.94	75.62	77.3	78.98	80.66	82.34	84.02	85.7	87.38	89.06	90.74	92.42	94.1

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL21

DDL21 - L300 - SL8009S - D1 - C1 - P1 - H - S3 - OIL

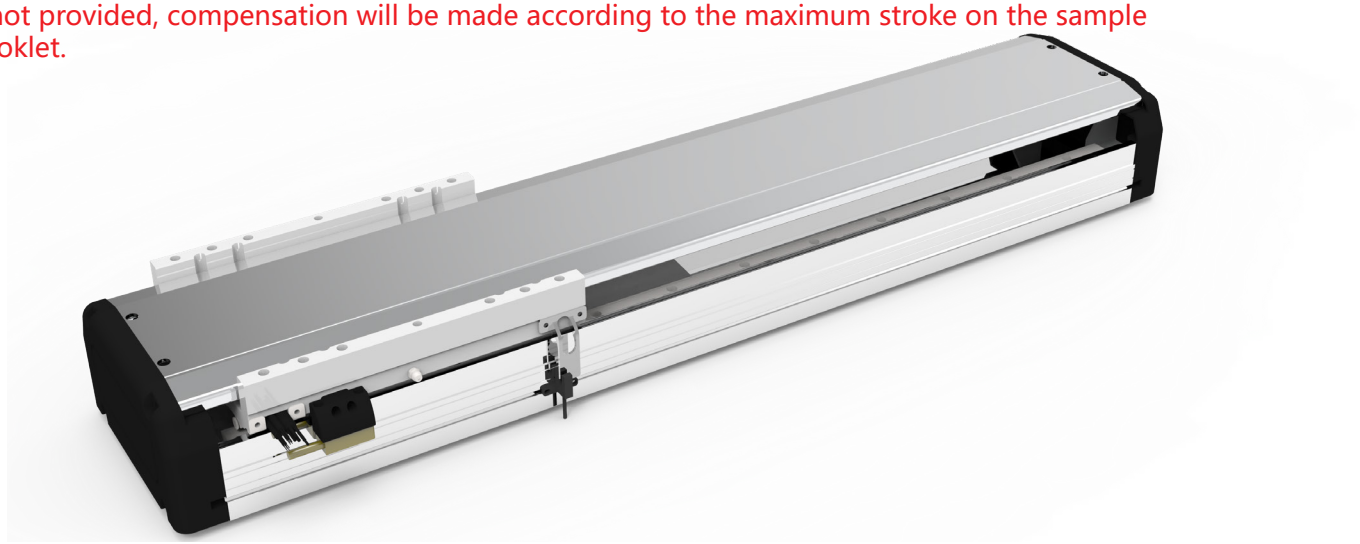
Width	Base length	Motor	Slides	Optical ruler	Resolution	Hall	Switches	Oiling
	300-5004mm	SL8009N/S	Dn: n slides	C0:No optical ruler	P1: 1μm	H: Hall	S1:n switches	No: No centralized
	Note: 96mm interval	SL8012N/S		C1:Magnetic scale	P2: 0.5μm	No: Without hall	No:No switch	oil injection function
		SL8015N/S		2:Grating ruler	P3: 0.1μm			
		SL10006N/S						
		SL10009N/S						
		SL10012N/S						
		SL10015N/S						

Parameters

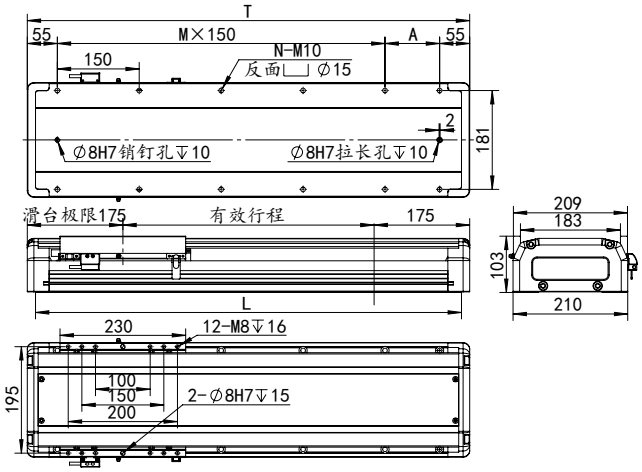
Rotor	SL8009	SL8012	SL8015	SL10006	SL10009	SL10012	SL10015
Valid stroke (mm)	Base length -320	Base length -370	Base length -420	Base length -272	Base length -312	Base length -362	Base length -412
Reduce the stroke with each additional slide (mm)	260	310	360	196	236	286	336
Starting base length (mm)	396	492	492	300	396	396	492
Peak force (N)	600	800	1000	610	915	1220	1525
Sustained force (N)	300	400	500	270	405	540	675
Rail specification	W20						
Number of sliders	4	6	6	4	4	6	6
Maximum load (Kg)	45	60	75	35	55	70	90
Rotor part weight (Kg)	6.6	8.8	10.1	6	7	9	10.5
Repeatable positioning accuracy (μm)	±5 (Magnescale) ±2 (Grating ruler)						

※When the length of the base exceeds 2500mm, a steel strip type upper cover plate will be automatically selected.

Note: If an interferometer is required for compensation, the customer needs to provide the Z-direction position.
If not provided, compensation will be made according to the maximum stroke on the sample booklet.



DDL21-SL8009

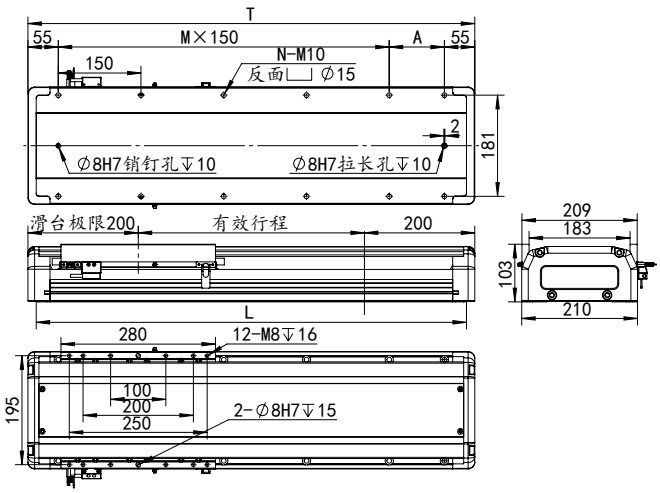


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	20	76	172	268	364	460	556	652	748	844	940	1036	1132	1228	1324	1420	1516	1612	1708	1804	1900	1996	2092	2188	2284
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154	2250	2346	2442	2538	2634
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13	14	14	15	16	16
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30	32	32	34	36	36
kg	12.2	14.36	16.52	18.68	20.84	23	25.16	27.32	29.48	31.64	33.8	35.96	38.12	40.28	42.44	44.6	46.76	48.92	51.08	53.24	55.4	57.56	59.72	61.88	64.04

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2380	2476	2572	2668	2764	2860	2956	3052	3148	3244	3340	3436	3532	3628	3724	3820	3916	4012	4108	4204	4300	4396	4492	4588	4684
T	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	4266	4362	4458	4554	4650	4746	4842	4938	5034
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26	26	27	28	28	29	30	30	31	32	32
N	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56	56	58	60	60	62	64	64	66	68	68
kg	66.2	68.36	70.52	72.68	74.84	77	79.16	81.32	83.48	85.64	87.8	89.96	92.12	94.28	96.44	98.6	100.8	102.9	105.1	107.2	109.4	111.6	113.7	115.9	118

DDL21-SL8012



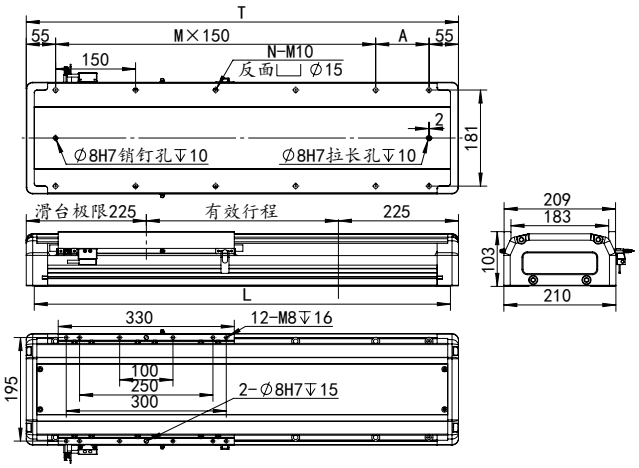
Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	70	26	122	218	314	410	506	602	698	794	890	986	1082	1178	1274	1370	1466	1562	1658	1754	1850	1946	2042	2138	2234
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154	2250	2346	2442	2538	2634
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13	14	14	15	16	16
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30	32	32	34	36	36
kg	14.4	16.56	18.72	20.88	23.04	25.2	27.36	29.52	31.68	33.84	36	38.16	40.32	42.48	44.64	46.8	48.96	51.12	53.28	55.44	57.6	59.76	61.92	64.08	66.24

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2330	2426	2522	2618	2714	2810	2906	3002	3098	3194	3290	3386	3482	3578	3674	3770	3866	3962	4058	4154	4250	4346	4442	4538	4634
T	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	4266	4362	4458	4554	4650	4746	4842	4938	5034
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26	26	27	28	28	29	30	30	31	32	32
N	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56	56	58	60	60	62	64	64	66	68	68
kg	68.4	70.56	72.72	74.88	77.04	79.2	81.36	83.52	85.68	87.84	90	92.16	94.32	96.48	98.64	100.8	103	105.1	107.3	109.4	111.6	113.8	115.9	118.1	120.2

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL21-SL8015



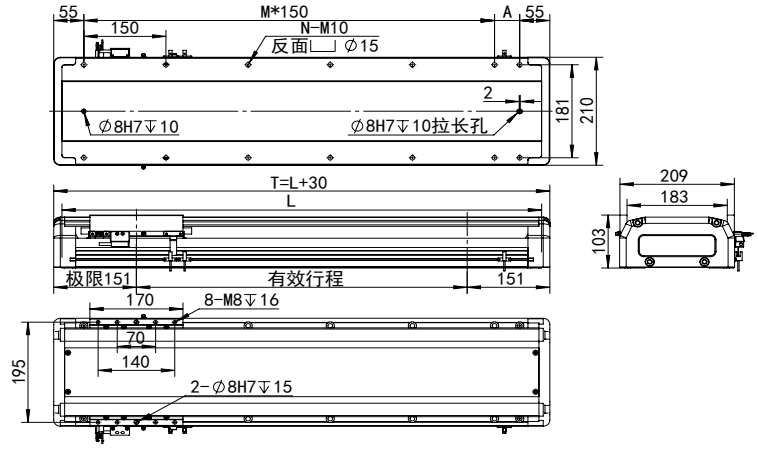
Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	120	24	72	168	264	360	456	552	648	744	840	936	1032	1128	1224	1320	1416	1512	1608	1704	1800	1896	1992	2088	2184
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154	2250	2346	2442	2538	2634
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13	14	14	15	16	16
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30	32	32	34	36	36
kg	15.7	17.86	20.02	22.18	24.34	26.5	28.66	30.82	32.98	35.14	37.3	39.46	41.62	43.78	45.94	48.1	50.26	52.42	54.58	56.74	58.9	61.06	63.22	65.38	67.54

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2280	2376	2472	2568	2664	2760	2856	2952	3048	3144	3240	3336	3432	3528	3624	3720	3816	3912	4008	4104	4200	4296	4392	4488	4584
T	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	4266	4362	4458	4554	4650	4746	4842	4938	5034
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26	26	27	28	28	29	30	30	31	32	32
N	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56	56	58	60	60	62	64	64	66	68	68
kg	69.7	71.86	74.02	76.18	78.34	80.5	82.66	84.82	86.98	89.14	91.3	93.46	95.62	97.78	99.94	102.1	104.3	106.4	108.6	110.7	112.9	115.1	117.2	119.4	121.5

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL21-SL10006

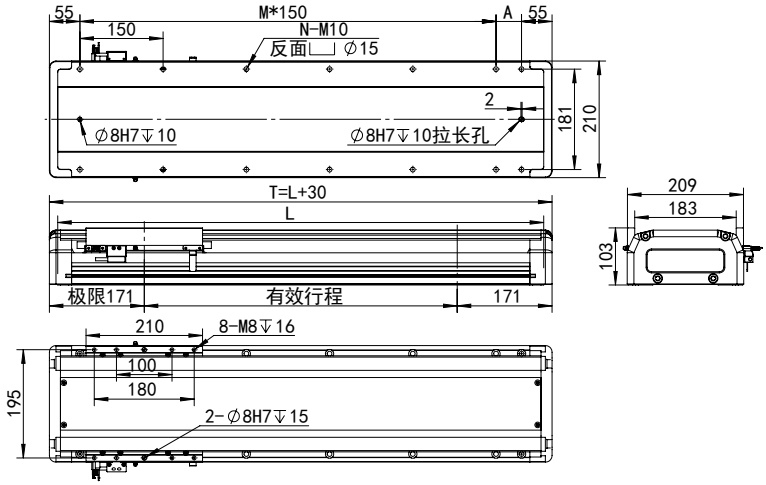


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	28	124	220	316	412	508	604	700	796	892	988	1084	1180	1276	1372	1468	1564	1660	1756	1852	1948	2044	2140	2236	2332
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154	2250	2346	2442	2538	2634
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13	14	14	15	16	16
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30	32	32	34	36	36
kg	13.97	16.37	18.77	21.17	23.57	25.97	28.37	30.77	33.17	35.57	37.97	40.37	42.77	45.17	47.57	49.97	52.37	54.77	57.17	59.57	61.97	64.37	66.77	69.17	71.57

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2428	2524	2620	2716	2812	2908	3004	3100	3196	3292	3388	3484	3580	3676	3772	3868	3964	4060	4156	4252	4348	4444	4540	4636	4732
T	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	4266	4362	4458	4554	4650	4746	4842	4938	5034
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26	26	27	28	28	29	30	30	31	32	32
N	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56	56	58	60	60	62	64	64	66	68	68
kg	73.97	76.37	78.77	81.17	83.57	85.97	88.37	90.77	93.17	95.57	97.97	100.37	102.77	105.17	107.57	109.97	112.37	114.77	117.17	119.57	121.97	124.37	126.77	129.17	131.57

DDL21-SL10009



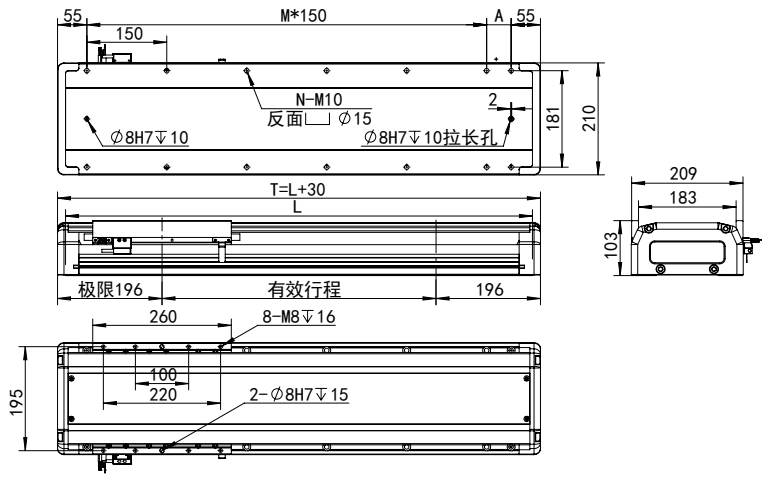
Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	12	84	180	276	372	468	564	660	756	852	948	1044	1140	1236	1332	1428	1524	1620	1716	1812	1908	2004	2100	2196	2292
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154	2250	2346	2442	2538	2634
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13	14	14	15	16	16
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30	32	32	34	36	36
kg	14.51	16.91	19.31	21.71	24.11	26.51	28.91	31.31	33.71	36.11	38.51	40.91	43.31	45.71	48.11	50.51	52.91	55.31	57.71	60.11	62.51	64.91	67.31	69.71	72.11

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2388	2484	2580	2676	2772	2868	2964	3060	3156	3252	3348	3444	3540	3636	3732	3828	3924	4020	4116	4212	4308	4404	4500	4596	4692
T	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	4266	4362	4458	4554	4650	4746	4842	4938	5034
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26	26	27	28	28	29	30	30	31	32	32
N	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56	56	58	60	60	62	64	64	66	68	68
kg	74.51	76.91	79.31	81.71	84.11	86.51	88.91	91.31	93.71	96.11	98.51	100.91	103.31	105.71	108.11	110.51	112.91	115.31	117.71	120.11	122.51	124.91	127.31	129.71	132.11

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL21-SL10012

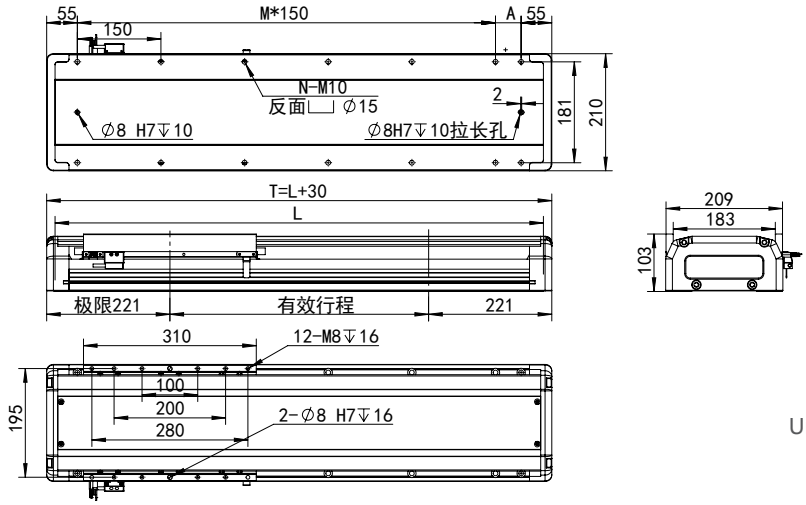


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	62	34	130	226	322	418	514	610	706	802	898	994	1090	1186	1282	1378	1474	1570	1666	1762	1858	1954	2050	2146	2242
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154	2250	2346	2442	2538	2634
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13	14	14	15	16	16
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30	32	32	34	36	36
kg	15.74	18.14	20.54	22.94	25.34	27.74	30.14	32.54	34.94	37.34	39.74	42.14	44.54	46.94	49.34	51.74	54.14	56.54	58.94	61.34	63.74	66.14	68.54	70.94	73.34

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2338	2434	2530	2626	2722	2818	2914	3010	3106	3202	3298	3394	3490	3586	3682	3778	3874	3970	4066	4162	4258	4354	4450	4546	4642
T	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	4266	4362	4458	4554	4650	4746	4842	4938	5034
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26	26	27	28	28	29	30	30	31	32	32
N	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56	56	58	60	60	62	64	64	66	68	68
kg	75.74	78.14	80.54	82.94	85.34	87.74	90.14	92.54	94.94	97.34	99.74	102.14	104.54	106.94	109.34	111.74	114.14	116.54	118.94	121.34	123.74	126.14	128.54	130.94	133.34

DDL21-SL10015



Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	112	16	80	176	272	368	464	560	656	752	848	944	1040	1136	1232	1328	1424	1520	1616	1712	1808	1904	2000	2096	2192
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154	2250	2346	2442	2538	2634
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13	14	14	15	16	16
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30	32	32	34	36	36
kg	16.41	18.81	21.21	23.61	26.01	28.41	30.81	33.21	35.61	38.01	40.41	42.81	45.21	47.61	50.01	52.41	54.81	57.21	59.61	62.01	64.41	66.81	69.21	71.61	74.01

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2288	2384	2480	2576	2672	2768	2864	2960	3056	3152	3248	3344	3440	3536	3632	3728	3824	3920	4016	4112	4208	4304	4400	4496	4592
T	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	4266	4362	4458	4554	4650	4746	4842	4938	5034
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26	26	27	28	28	29	30	30	31	32	32
N	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56	56	58	60	60	62	64	64	66	68	68
kg	76.41	78.81	81.21	83.61	86.01	88.41	90.81	93.21	95.61	98.01	100.41	102.81	105.21	107.61	110.01	112.41	114.81	117.21	119.61	122.01	124.41	126.81	129.21	131.61	134.01

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL24

DDL24 - L300 - SL13006N - D1 - C1 - P1 - H - S3 - OIL

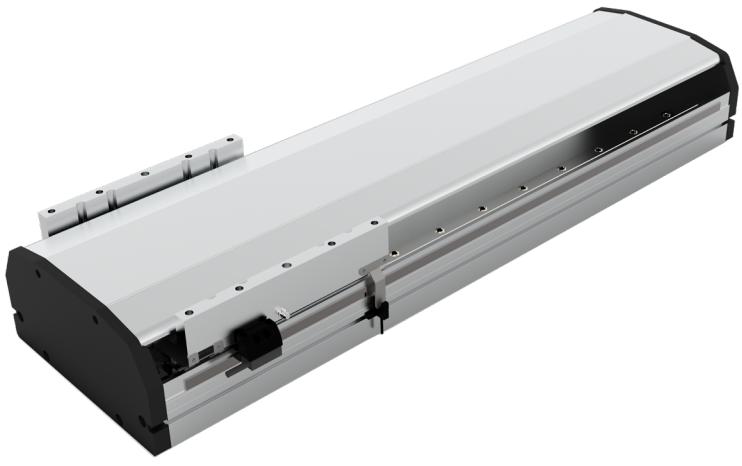
Width	Base length	Motor	Slides	Optical ruler	Resolving power	Hall	Switch	Oiling
	300-5004mm	SL13006N/S	Dn: n slides	C0:No optical ruler	P1: 1μm	H: Hall	S1:n switches	No: No centralized
	Note: 96mm interval	SL13009N/S		C1:Magnescale	P2: 0.5μm	No: Without hall	No:no switch	oil injection func
		SL13012N/S		C2:Grating ruler	P3: 0.1μm			
		SL13015N/S						

Parameters

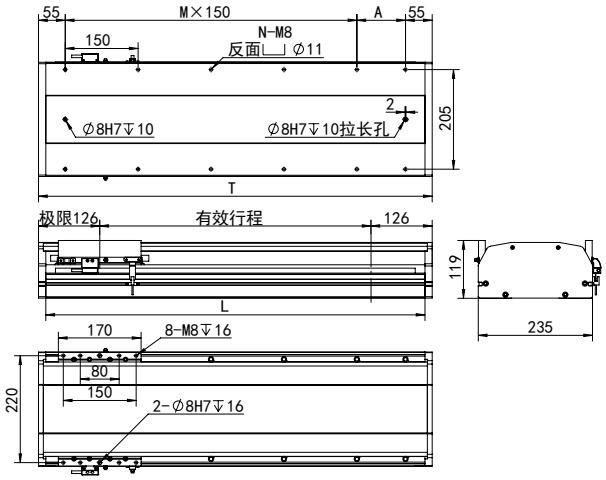
Rotor	SL13006	SL13009	SL13012	SL13015
Valid stroke (mm)	Base length -222	Base length -272	Base length -322	Base length -372
Reduce the stroke with each additional slide (mm)	196	236	286	336
Starting base length (mm)	300	300	396	396
Peak force (N)	900	1350	1800	2250
Sustained force (N)	380	570	760	950
Rail specification	W20			
Number of sliders	4	4	6	6
Maximum load (Kg)	50	75	100	125
Rotor part weight (Kg)	8	10	13	15
Repeatable positioning accuracy (μm)	±5 (Magnescale) ±2 (Grating ruler)			

※When the length of the base exceeds 2500mm, a steel strip type upper cover plate will be automatically selected.

Note: If an interferometer is required for compensation, the customer needs to provide the Z-direction position.
If not provided, compensation will be made according to the maximum stroke on the sample booklet.



DDL24-SL13006

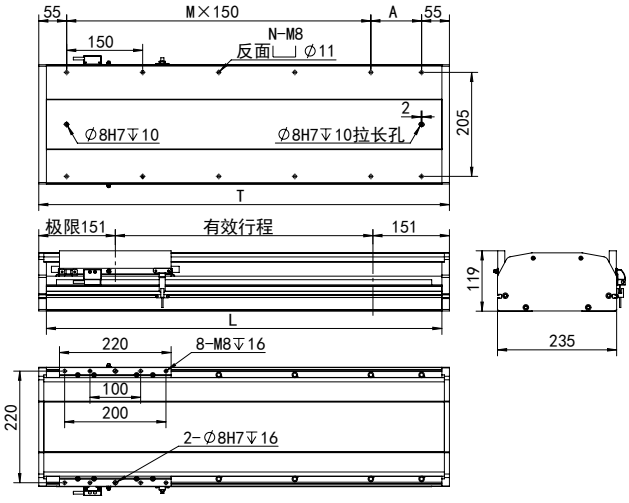


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	78	174	270	366	462	558	654	750	846	942	1038	1134	1230	1326	1422	1518	1614	1710	1806	1902	1998	2094	2190	2286	2382
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154	2250	2346	2442	2538	2634
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13	14	14	15	16	16
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30	32	32	34	36	36
kg	19.99	23.4	26.81	30.22	33.63	37.04	40.45	43.86	47.27	50.68	54.09	57.5	60.91	64.32	67.73	71.14	74.55	77.96	81.37	84.78	88.19	91.6	95.01	98.42	101.83

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2478	2574	2670	2766	2862	2958	3054	3150	3246	3342	3438	3534	3630	3726	3822	3918	4014	4110	4206	4302	4398	4494	4590	4686	4782
T	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	4266	4362	4458	4554	4650	4746	4842	4938	5034
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26	26	27	28	28	29	30	30	31	32	32
N	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56	56	58	60	60	62	64	64	66	68	68
kg	105.24	108.65	112.06	115.47	118.88	122.29	125.7	129.11	132.52	135.93	139.34	142.75	146.16	149.57	152.98	156.39	159.8	163.21	166.62	170.03	173.44	176.85	180.26	183.67	187.08

DDL24-SL13009



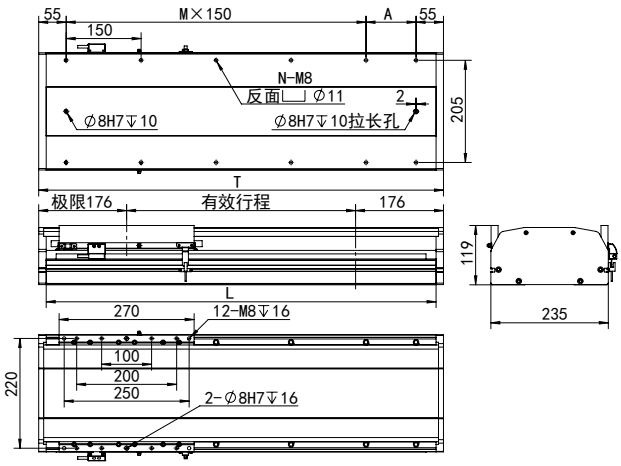
Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	28	124	220	316	412	508	604	700	796	892	988	1084	1180	1276	1372	1468	1564	1660	1756	1852	1948	2044	2140	2236	2332
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154	2250	2346	2442	2538	2634
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13	14	14	15	16	16
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30	32	32	34	36	36
kg	21.83	25.24	28.65	32.06	35.47	38.88	42.29	45.7	49.11	52.52	55.93	59.34	62.75	66.16	69.57	72.98	76.39	79.8	83.21	86.62	90.03	93.44	96.85	100.26	103.67

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2428	2524	2620	2716	2812	2908	3004	3100	3196	3292	3388	3484	3580	3676	3772	3868	3964	4060	4156	4252	4348	4444	4540	4636	4732
T	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	4266	4362	4458	4554	4650	4746	4842	4938	5034
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26	26	27	28	28	29	30	30	31	32	32
N	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56	56	58	60	60	62	64	64	66	68	68
kg	107.08	110.49	113.9	117.31	120.72	124.13	127.54	130.95	134.36	137.77	141.18	144.59	148	151.41	154.82	158.23	161.64	165.05	168.46	171.87	175.28	178.69	182.1	185.51	188.92

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL24-SL13012

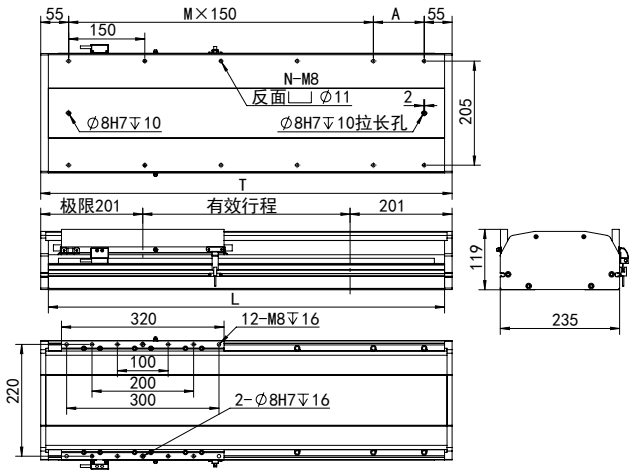


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	22	74	170	266	362	458	554	650	746	842	938	1034	1130	1226	1322	1418	1514	1610	1706	1802	1898	1994	2090	2186	2282
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154	2250	2346	2442	2538	2634
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13	14	14	15	16	16
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30	32	32	34	36	36
kg	24.12	27.53	30.94	34.35	37.76	41.17	44.58	47.99	51.4	54.81	58.22	61.63	65.04	68.45	71.86	75.27	78.68	82.09	85.5	88.91	92.32	95.73	99.14	102.55	105.96

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2378	2474	2570	2666	2762	2858	2954	3050	3146	3242	3338	3434	3530	3626	3722	3818	3914	4010	4106	4202	4298	4394	4490	4586	4682
T	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	4266	4362	4458	4554	4650	4746	4842	4938	5034
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26	26	27	28	28	29	30	30	31	32	32
N	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56	56	58	60	60	62	64	64	66	68	68
kg	109.37	112.78	116.19	119.6	123.01	126.42	129.83	133.24	136.65	140.06	143.47	146.88	150.29	153.7	157.11	160.52	163.93	167.34	170.75	174.16	177.57	180.98	184.39	187.8	191.21

DDL24-SL13015



Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	72	24	120	216	312	408	504	600	696	792	888	984	1080	1176	1272	1368	1464	1560	1656	1752	1848	1944	2040	2136	2232
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154	2250	2346	2442	2538	2634
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13	14	14	15	16	16
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30	32	32	34	36	36
kg	25.12	28.53	31.94	35.35	38.76	42.17	45.58	48.99	52.4	55.81	59.22	62.63	66.04	69.45	72.86	76.27	79.68	83.09	86.5	89.91	93.32	96.73	100.14	103.55	106.96

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2328	2424	2520	2616	2712	2808	2904	3000	3096	3192	3288	3384	3480	3576	3672	3768	3864	3960	4056	4152	4248	4344	4440	4536	4632
T	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	4266	4362	4458	4554	4650	4746	4842	4938	5034
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94	40	136	82	28	124
M	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26	26	27	28	28	29	30	30	31	32	32
N	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56	56	58	60	60	62	64	64	66	68	68
kg	110.37	113.78	117.19	120.6	124.01	127.42	130.83	134.24	137.65	141.06	144.47	147.88	151.29	154.7	158.11	161.52	164.93	168.34	171.75	175.16	178.57	181.98	185.39	188.8	192.21

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL27

DL27 - L492 - SL13012S - D1 - C1 - P1 - H S3 - OIL

Width	Base length	Motor	Slides	Optical ruler	Resolving power	Hall	Switch	Oiling
	492-5004mm Note: 96mm interval	SL13012S SL13012N SL13015S SL13015N SL13030S SL13030N	Dn: n slides	C0:No optical ruler C1:Magnescale C2:Grating ruler	P1: 1μm P2: 0.5μm P3: 0.1μm	H: Hall No: Without hall	S1:n switches No:no switch	No: No centralized oil injection function

Parameters

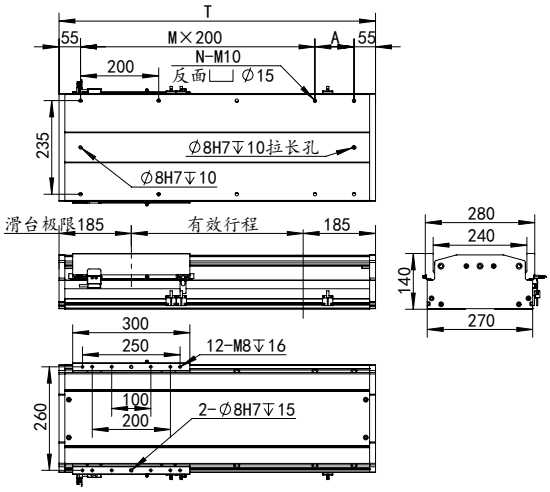
Rotor	SL13012	SL13015	SL13030
Valid stroke (mm)	Base length-340	Base length-390	Base length-660
Reduce the stroke with each additional slide (mm)	330	380	650
Starting base length (mm)	492	492	780
Peak force (N)	1600	2000	4000
Sustained force (N)	760	950	1900
Rail specification	W23		
Number of sliders	4	6	8
Maximum load (Kg)	75	120	200
Rotor part weight (Kg)	14.2	17.8	31
Repeatable positioning accuracy (μm)	±5 (Magnescale) ±2 (Grating ruler)		

※When the length of the base exceeds 2500mm, a steel strip type upper cover plate will be automatically selected.

Note: If an interferometer is required for compensation, the customer needs to provide the Z-direction position.
If not provided, compensation will be made according to the maximum stroke on the sample booklet.



DDL27-SL13012

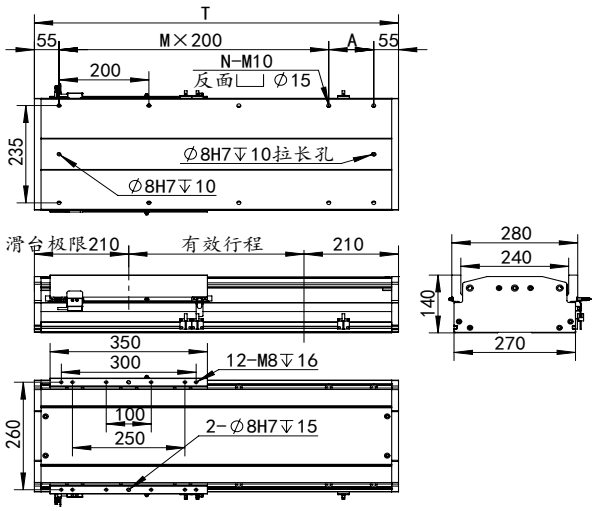


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	40	56	152	248	344	414	546	632	728	824	920	1016	1112	1208	1304	1400	1496	1592	1688	1784	1880	1976	2072	2168	2264
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154	2250	2346	2442	2538	2634
A	220	116	212	108	204	100	196	92	188	84	180	76	172	68	164	60	156	52	148	44	140	36	132	28	124
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
kg	29	32.8	36.6	40.4	44.2	48	51.8	55.6	59.4	63.2	67	70.8	74.6	78.4	82.2	86	89.8	93.6	97.4	101.2	105	108.8	112.6	116.4	120.2

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2360	2456	2552	2648	2744	2840	2936	3032	3128	3224	3320	3416	3512	3608	3704	3800	3896	3992	4088	4184	4280	4376	4472	4568	4664
T	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	4266	4362	4458	4554	4650	4746	4842	4938	5034
A	220	116	212	108	204	100	196	92	188	84	180	76	172	68	164	60	156	52	148	44	140	36	132	28	124
M	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21	21	22	22	23	23	24	24
N	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46	48	48	50	50	52	52
kg	124	127.8	131.6	135.4	139.2	143	146.8	150.6	154.4	158.2	162	165.8	169.6	173.4	177.2	181	184.8	188.6	192.4	196.2	200	203.8	207.6	211.4	215.2

DDL27-SL13015



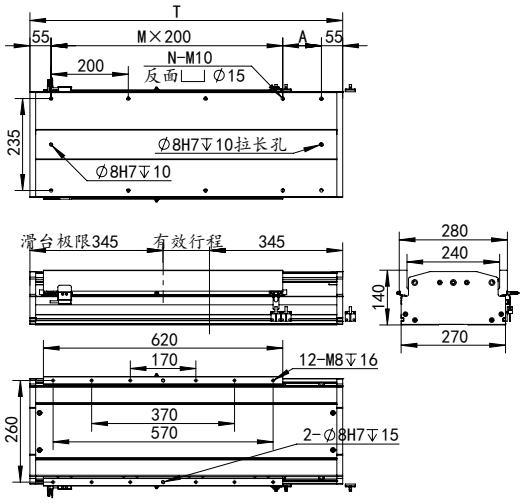
Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	90	6	102	198	294	390	486	582	678	774	870	966	1062	1158	1254	1350	1446	1542	1638	1734	1830	1926	2022	2118	2214
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154	2250	2346	2442	2538	2634
A	220	116	212	108	204	100	196	92	188	84	180	76	172	68	164	60	156	52	148	44	140	36	132	28	124
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
kg	32	35.8	39.6	43.4	47.2	51	54.8	58.6	62.4	66.2	70	73.8	77.6	81.4	85.2	89	92.8	96.6	100.4	104.2	108	111.8	115.6	119.4	123.2

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2310	2406	2502	2598	2694	2790	2886	2982	3078	3174	3270	3366	3462	3558	3654	3750	3846	3942	4038	4134	4230	4326	4422	4518	4614
T	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	4266	4362	4458	4554	4650	4746	4842	4938	5034
A	220	116	212	108	204	100	196	92	188	84	180	76	172	68	164	60	156	52	148	44	140	36	132	28	124
M	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21	21	22	22	23	23	24	24
N	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46	48	48	50	50	52	52
kg	127	130.8	134.6	138.4	142.2	146	149.8	153.6	157.4	161.2	165	168.8	172.6	176.4	180.2	184	187.8	191.6	195.4	199.2	203	206.8	210.6	214.4	218.2

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL27-SL13030



Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124	2220	2316	2412	2508	2604
Stroke	-360	-264	-168	-72	24	120	216	312	408	504	600	696	792	888	984	1080	1176	1272	1368	1464	1560	1656	1752	1848	1944
T	330	426	522	618	714	810	906	1002	1098	1194	1290	1386	1482	1578	1674	1770	1866	1962	2058	2154	2250	2346	2442	2538	2634
A	220	116	212	108	204	100	196	92	188	84	180	76	172	68	164	60	156	52	148	44	140	36	132	28	124
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
kg	46	49.8	53.6	57.4	61.2	65	68.8	72.6	76.4	80.2	84	87.8	91.6	95.4	99.2	103	106.8	110.6	114.4	118.2	122	125.8	129.6	133.4	137.2

Base length	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044	4140	4236	4332	4428	4524	4620	4716	4812	4908	5004
Stroke	2040	2136	2232	2328	2424	2520	2616	2712	2808	2904	3000	3096	3192	3288	3384	3480	3576	3672	3768	3864	3960	4056	4152	4248	4344
T	2730	2826	2922	3018	3114	3210	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	4266	4362	4458	4554	4650	4746	4842	4938	5034
A	220	116	212	108	204	100	196	92	188	84	180	76	172	68	164	60	156	52	148	44	140	36	132	28	124
M	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21	21	22	22	23	23	24	24
N	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46	48	48	50	50	52	52
kg	141	144.8	148.6	152.4	156.2	160	163.8	167.6	171.4	175.2	179	182.8	186.6	190.4	194.2	198	201.8	205.6	209.4	213.2	217	220.8	224.6	228.4	232.2

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL14W

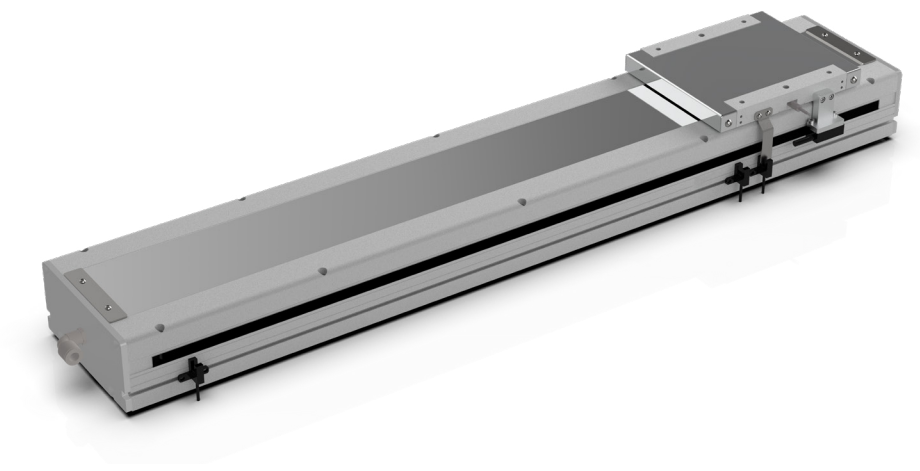
DDL14W - L300 - SL5006S - D1 - C1 - P1 - H - S3

Width	Base length	Motor	Slides	Optical ruler	resolving power	Hall	Switches
	300-4004mm	SL5006S	Dn：n slides	C0:No optical ruler	P1：1μm	H: Hall	S1:n switches
	Note：96mm interval	SL5009S		C1::Magnescale	P2：0.5μm	No：Without hal	No:no switches
		SL5012S		C2:Grating ruler	P3：0.1μm		

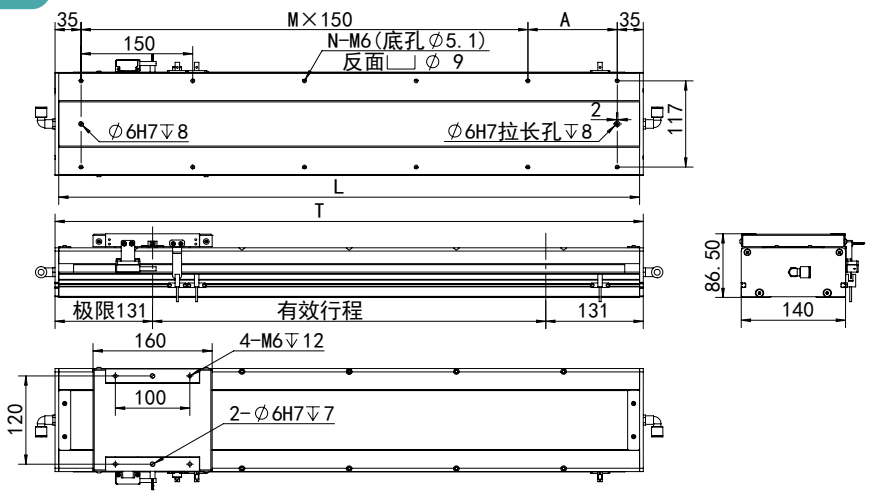
Parameters

Rotor	SL5006	SL5009	SL5012
Valid stroke（mm）	Base length-252	Base length-302	Base length-352
Reduce the stroke with each additional slide（mm）	186	236	286
Starting base length（mm）	300	396	396
Peak force（N）	210	315	420
Sustained force（N）	120	180	240
Rail specification	W15		
Number of sliders	4	4	6
Maximum load（Kg）	15	23	31
Rotor part weight（Kg）	3	4	5
Repeatable positioning accuracy（μm）	±5（Magnescale）±2（Grating ruler）		

Note: If an interferometer is required for compensation, the customer needs to provide the Z-direction position.
If not provided, compensation will be made according to the maximum stroke on the sample booklet.



DDL14W-SL5006

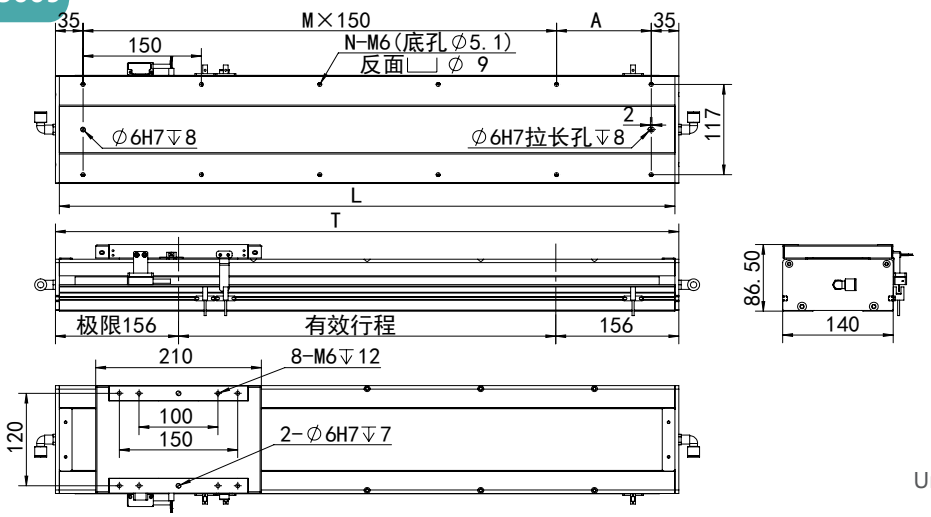


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	48	144	240	336	432	528	624	720	816	912	1008	1104	1200	1296	1392	1488	1584	1680	1776	1872
T	310	406	502	598	694	790	886	982	1078	1174	1270	1366	1462	1558	1654	1750	1846	1942	2038	2134
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30
kg	8.12	9.52	10.92	12.32	13.72	15.12	16.52	17.92	19.32	20.72	22.12	23.52	24.92	26.32	27.72	29.12	30.52	31.92	33.32	34.72

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1968	2064	2160	2256	2352	2448	2544	2640	2736	2832	2928	3024	3120	3216	3312	3408	3504	3600	3696	3792
T	2230	2326	2422	2518	2614	2710	2806	2902	2998	3094	3190	3286	3382	3478	3574	3670	3766	3862	3958	4054
A	60	156	102	48	144	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84
M	14	14	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56
kg	36.12	37.52	38.92	40.32	41.72	43.12	44.52	45.92	47.32	48.72	50.12	51.52	52.92	54.32	55.72	57.12	58.52	59.92	61.32	62.72

DDL14W-SL5009



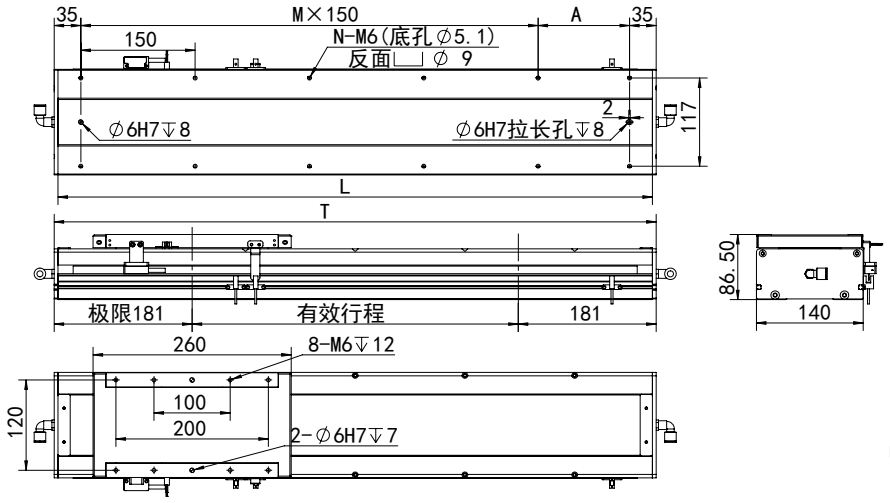
Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	2	94	190	286	382	478	574	670	766	862	958	1054	1150	1246	1342	1438	1534	1630	1726	1822
T	310	406	502	598	694	790	886	982	1078	1174	1270	1366	1462	1558	1654	1750	1846	1942	2038	2134
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30
kg	8.91	10.31	11.71	13.11	14.51	15.91	17.31	18.71	20.11	21.51	22.91	24.31	25.71	27.11	28.51	29.91	31.31	32.71	34.11	35.51

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1918	2014	2110	2206	2302	2398	2494	2590	2686	2782	2878	2974	3070	3166	3262	3358	3454	3550	3646	3742
T	2230	2326	2422	2518	2614	2710	2806	2902	2998	3094	3190	3286	3382	3478	3574	3670	3766	3862	3958	4054
A	60	156	102	48	144	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84
M	14	14	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56
kg	36.91	38.31	39.71	41.11	42.51	43.91	45.31	46.71	48.11	49.51	50.91	52.31	53.71	55.11	56.51	57.91	59.31	60.71	62.11	63.51

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL14W-SL5012



Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	52	44	140	236	332	428	524	620	716	812	908	1004	1100	1196	1292	1388	1484	1580	1676	1772
T	310	406	502	598	694	790	886	982	1078	1174	1270	1366	1462	1558	1654	1750	1846	1942	2038	2134
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30
kg	9.97	11.37	12.77	14.17	15.57	16.97	18.37	19.77	21.17	22.57	23.97	25.37	26.77	28.17	29.57	30.97	32.37	33.77	35.17	36.57

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1868	1964	2060	2156	2252	2348	2444	2540	2636	2732	2828	2924	3020	3116	3212	3308	3404	3500	3596	3692
T	2230	2326	2422	2518	2614	2710	2806	2902	2998	3094	3190	3286	3382	3478	3574	3670	3766	3862	3958	4054
A	60	156	102	48	144	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84
M	14	14	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56
kg	37.97	39.37	40.77	42.17	43.57	44.97	46.37	47.77	49.17	50.57	51.97	53.37	54.77	56.17	57.57	58.97	60.37	61.77	63.17	64.57

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL17W

DDL17W - L300 - SL8006S - D1 - C1 - P1 - H - S3

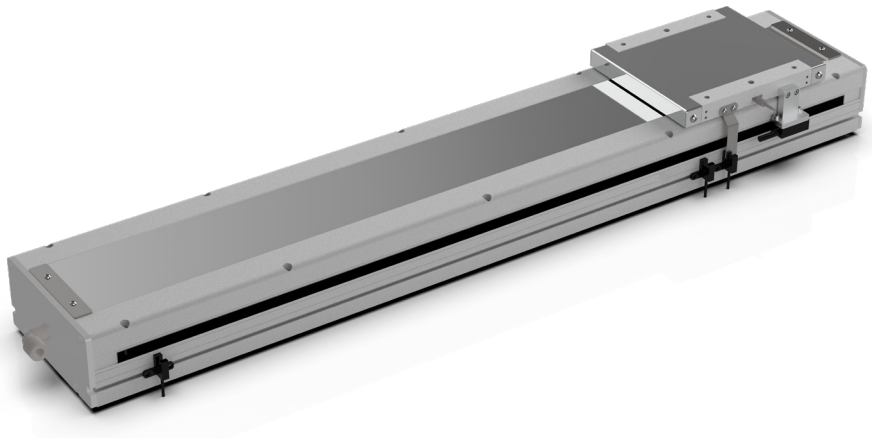
Width	Base length	Motor	Slides	Optical ruler	resolving power	Hall	Switches
	300-4004mm	SL8006N/S	Dn: n slides	C0:No optical ruler	P1: 1μm	H: Hall	S1:n switches
	Note:96mm interval	SL8009N/S		C1::Magnescale	P2: 0.5μm	No: Without hall	No:no switches
		SL8012N/S		C2:Grating ruler	P3: 0.1μm		
		SL8015N/S					

Parameters

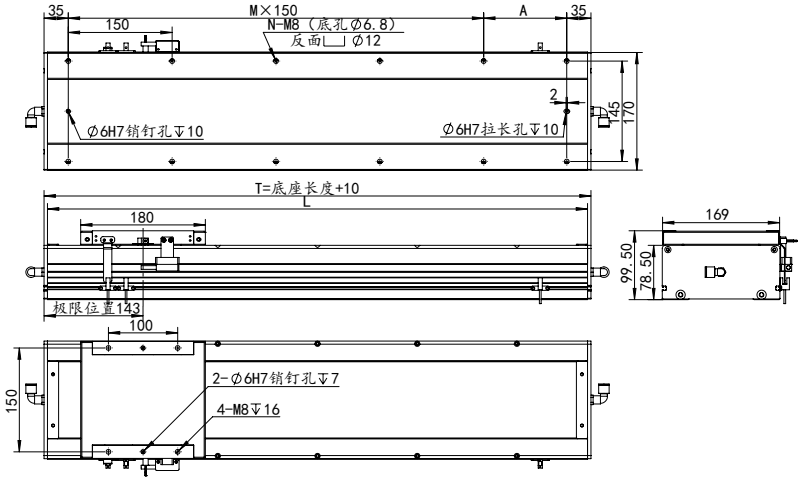
Rotor	SL8006	SL8009	SL8012	SL8015
Valid stroke (mm)	Base length -276	Base length -326	Base length -376	Base length -416
Reduce the stroke with each additional slide (mm)	206	256	306	346
Starting base length(mm)	300	396	396	492
Peak force (N)	450	675	900	1125
Sustained force (N)	200	300	400	500
Rail specification	W15			
Number of sliders	4	4	6	6
Maximum load (Kg)	25	35	45	55
Rotor part weight (Kg)	5	6	7	8
Repeatable positioning accuracy (μm)	±5 (Magnescale) ±2 (Grating ruler)			

※When the length of the base exceeds 2000mm, a steel strip type upper cover plate will be automatically selected.

Note: If an interferometer is required for compensation, the customer needs to provide the Z-direction position.
If not provided, compensation will be made according to the maximum stroke on the sample booklet.



DDL17W-SL8006

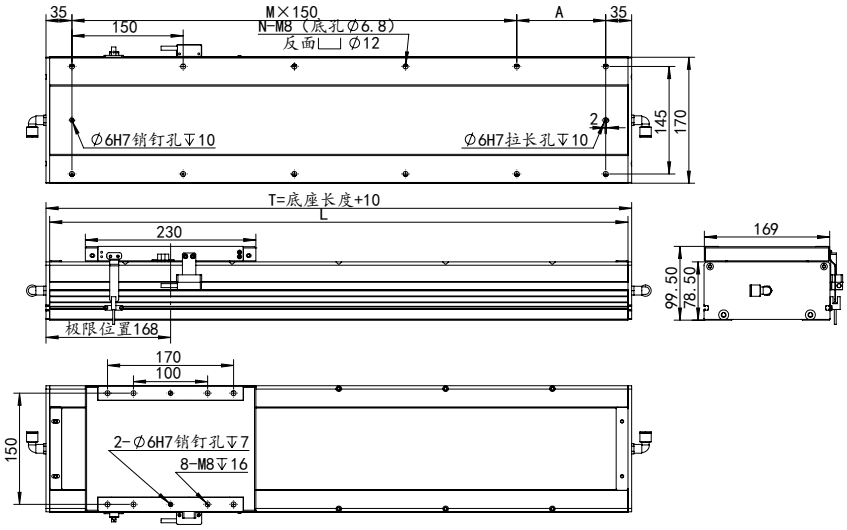


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	24	120	216	312	408	504	600	696	792	888	984	1080	1176	1272	1368	1464	1560	1656	1752	1848
T	310	406	502	598	694	790	886	982	1078	1174	1270	1366	1462	1558	1654	1750	1846	1942	2038	2134
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30
kg	14.27	16.14	18.01	19.88	21.75	23.62	25.49	27.36	29.23	31.1	32.97	34.84	36.71	38.58	40.45	42.32	44.19	46.06	47.93	49.8

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1944	2040	2136	2232	2328	2424	2520	2616	2712	2808	2904	3000	3096	3192	3288	3384	3480	3576	3672	3768
T	2230	2326	2422	2518	2614	2710	2806	2902	2998	3094	3190	3286	3382	3478	3574	3670	3766	3862	3958	4054
A	60	156	102	48	144	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84
M	14	14	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56
kg	51.67	53.54	55.41	57.28	59.15	61.02	62.89	64.76	66.63	68.5	70.37	72.24	74.11	75.98	77.85	79.72	81.59	83.46	85.33	87.2

DDL17W-SL8009



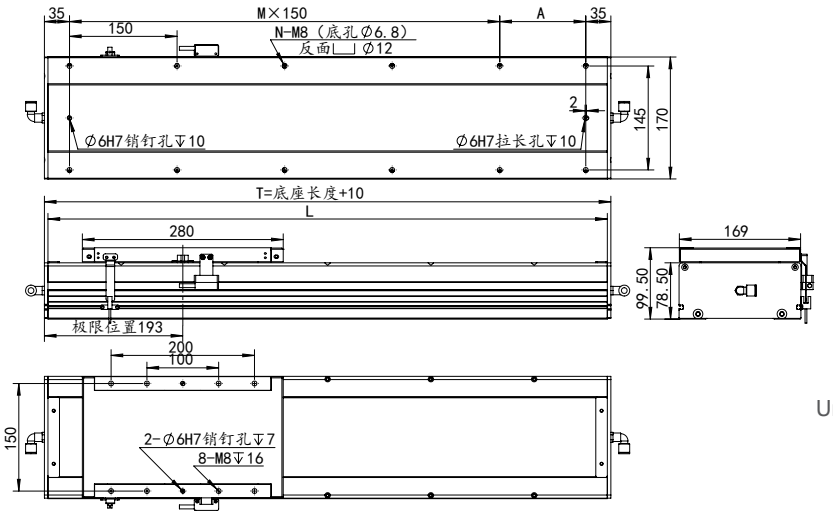
Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	-26	70	166	262	358	454	550	646	742	838	934	1030	1126	1222	1318	1414	1510	1606	1702	1798
T	310	406	502	598	694	790	886	982	1078	1174	1270	1366	1462	1558	1654	1750	1846	1942	2038	2134
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30
kg	16.07	17.94	19.81	21.68	23.55	25.42	27.29	29.16	31.03	32.9	34.77	36.64	38.51	40.38	42.25	44.12	45.99	47.86	49.73	51.6

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1894	1990	2086	2182	2278	2374	2470	2566	2662	2758	2854	2950	3046	3142	3238	3334	3430	3526	3622	3718
T	2230	2326	2422	2518	2614	2710	2806	2902	2998	3094	3190	3286	3382	3478	3574	3670	3766	3862	3958	4054
A	60	156	102	48	144	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84
M	14	14	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56
kg	53.47	55.34	57.21	59.08	60.95	62.82	64.69	66.56	68.43	70.3	72.17	74.04	75.91	77.78	79.65	81.52	83.39	85.26	87.13	89

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL17W-SL8012

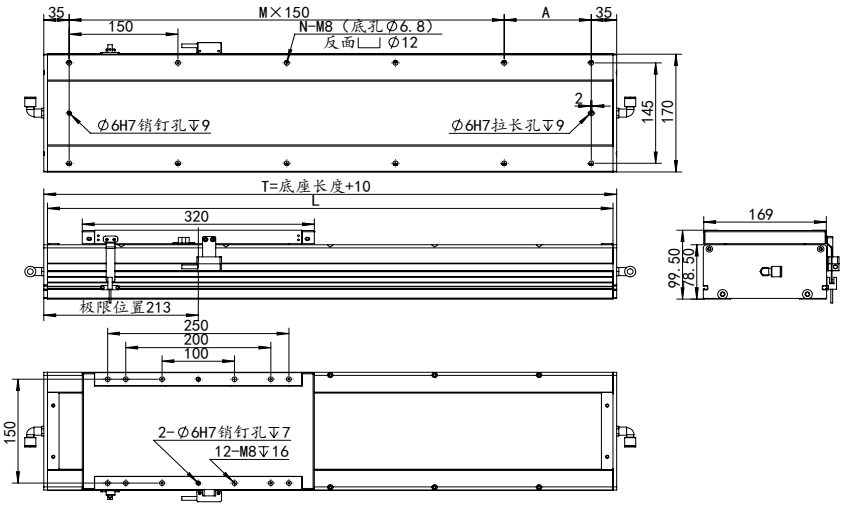


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	-76	20	116	212	308	404	500	596	692	788	884	980	1076	1172	1268	1364	1460	1556	1652	1748
T	310	406	502	598	694	790	886	982	1078	1174	1270	1366	1462	1558	1654	1750	1846	1942	2038	2134
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30
kg	18.62	20.49	22.36	24.23	26.1	27.97	29.84	31.71	33.58	35.45	37.32	39.19	41.06	42.93	44.8	46.67	48.54	50.41	52.28	54.15

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1844	1940	2036	2132	2228	2324	2420	2516	2612	2708	2804	2900	2996	3092	3188	3284	3380	3476	3572	3668
T	2230	2326	2422	2518	2614	2710	2806	2902	2998	3094	3190	3286	3382	3478	3574	3670	3766	3862	3958	4054
A	60	156	102	48	144	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84
M	14	14	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56
kg	56.02	57.89	59.76	61.63	63.5	65.37	67.24	69.11	70.98	72.85	74.72	76.59	78.46	80.33	82.2	84.07	85.94	87.81	89.68	91.55

DDL17W-SL8015



Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	-116	-20	76	172	268	364	460	556	652	748	844	940	1036	1132	1228	1324	1420	1516	1612	1708
T	310	406	502	598	694	790	886	982	1078	1174	1270	1366	1462	1558	1654	1750	1846	1942	2038	2134
A	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84	30	126	72	168	114
M	1	2	2	3	4	4	5	5	6	7	7	8	9	9	10	11	11	12	12	13
N	6	8	8	10	12	12	14	14	16	18	18	20	22	22	24	26	26	28	28	30
kg	19.97	21.84	23.71	25.58	27.45	29.32	31.19	33.06	34.93	36.8	38.67	40.54	42.41	44.28	46.15	48.02	49.89	51.76	53.63	55.5

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1804	1900	1996	2092	2188	2284	2380	2476	2572	2668	2764	2860	2956	3052	3148	3244	3340	3436	3532	3628
T	2230	2326	2422	2518	2614	2710	2806	2902	2998	3094	3190	3286	3382	3478	3574	3670	3766	3862	3958	4054
A	60	156	102	48	144	90	36	132	78	24	120	66	162	108	54	150	96	42	138	84
M	14	14	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	40	40	42	44	44	46	46	48	50	50	52	54	54	56
kg	57.37	59.24	61.11	62.98	64.85	66.72	68.59	70.46	72.33	74.2	76.07	77.94	79.81	81.68	83.55	85.42	87.29	89.16	91.03	92.9

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL21W

DDL21W - L300 - SL8009S - D1 - C1 - P1 - H - S3

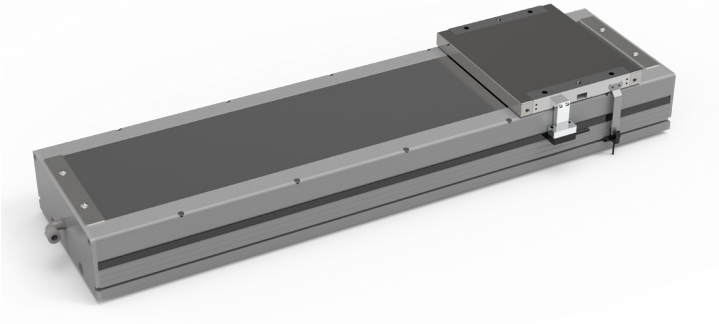
Width	Base length	Motor	Slides	Optical ruler	resolving power	Hall	Switches
	300-4044mm Note:96mm interval	SL8006N/S SL8009N/S SL8012N/S SL8015N/S SL10006N/S SL10009N/S SL10012N/S SL10015N/S	Dn：n slides	C0:No optical ruler C1::Magnescale C2:Grating ruler	P1：1μm P2：0.5μm P3：0.1μm	H: Hall No：Without hall	S1:n switches No:without switch

Parameters

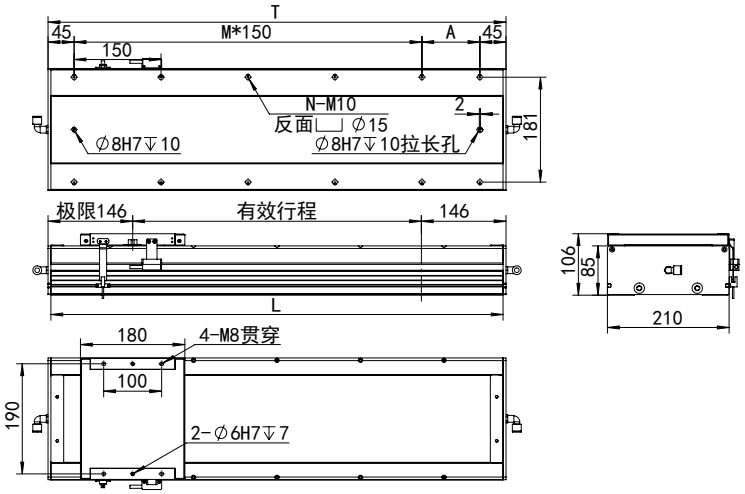
Rotor	SL8006	SL8009	SL8012	SL8015	SL10006	SL10009	SL10012	SL10015
Valid stroke（mm）	Base length -282	Base length -332	Base length -377	Base length -422	Base length -272	Base length -322	Base length -362	Base length -412
Reduce the stroke with each additional slide（mm）	206	256	301	346	196	246	286	336
Starting base length（mm）	300	396	396	492	300	396	396	492
Peak force（N）	450	675	900	1125	610	915	1220	1525
Sustained force（N）	200	300	400	500	270	405	540	675
Rail specification	W15							
Number of sliders	4	4	6	6	4	4	6	6
Maximum load（Kg）	25	30	45	55	30	45	60	75
Rotor part weight（Kg）	5	7	9	11	6.5	8.5	10.5	12.5
Repeatable positioning accuracy（μm）	±5（Magnescale）±2（Grating ruler）							

※When the length of the base exceeds 2500mm, a steel strip type upper cover plate will be automatically selected.

Note: If an interferometer is required for compensation, the customer needs to provide the Z-direction position.
If not provided, compensation will be made according to the maximum stroke on the sample booklet.



DDL21W-SL8006

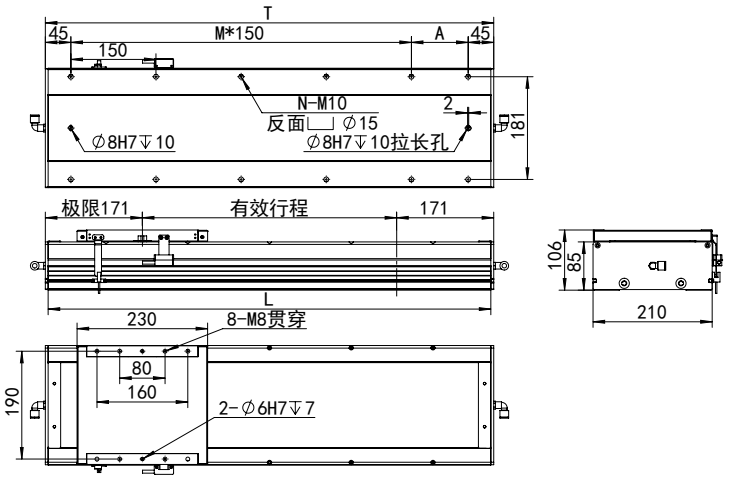


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	18	114	210	306	402	498	594	690	786	882	978	1074	1170	1266	1362	1458	1554	1650	1746	1842
T	310	406	502	598	694	790	886	982	1078	1174	1270	1366	1462	1558	1654	1750	1846	1942	2038	2134
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30
kg	14.57	16.92	19.27	21.62	23.97	26.32	28.67	31.02	33.37	35.72	38.07	40.42	42.77	45.12	47.47	49.82	52.17	54.52	56.87	59.22

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1938	2034	2130	2226	2322	2418	2514	2610	2706	2802	2898	2994	3090	3186	3282	3378	3474	3570	3666	3762
T	2230	2326	2422	2518	2614	2710	2806	2902	2998	3094	3190	3286	3382	3478	3574	3670	3766	3862	3958	4054
A	40	136	82	28	124	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64
M	14	14	15	16	16	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56
kg	61.57	63.92	66.27	68.62	70.97	73.32	75.67	78.02	80.37	82.72	85.07	87.42	89.77	92.12	94.47	96.82	99.17	101.52	103.87	106.22

DDL21W-SL8009



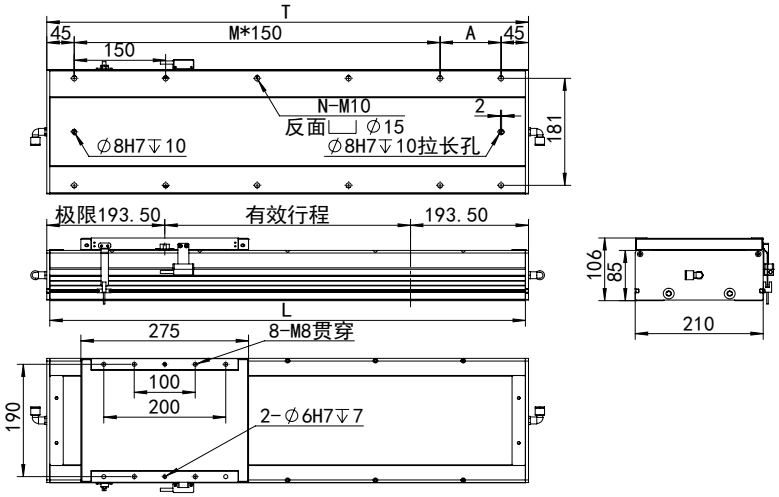
Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	32	64	160	256	352	448	544	640	736	832	928	1024	1120	1216	1312	1408	1504	1600	1696	1792
T	310	406	502	598	694	790	886	982	1078	1174	1270	1366	1462	1558	1654	1750	1846	1942	2038	2134
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30
kg	15.96	18.31	20.66	23.01	25.36	27.71	30.06	32.41	34.76	37.11	39.46	41.81	44.16	46.51	48.86	51.21	53.56	55.91	58.26	60.61

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1888	1984	2080	2176	2272	2368	2464	2560	2656	2752	2848	2944	3040	3136	3232	3328	3424	3520	3616	3712
T	2230	2326	2422	2518	2614	2710	2806	2902	2998	3094	3190	3286	3382	3478	3574	3670	3766	3862	3958	4054
A	40	136	82	28	124	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64
M	14	14	15	16	16	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56
kg	62.96	65.31	67.66	70.01	72.36	74.71	77.06	79.41	81.76	84.11	86.46	88.81	91.16	93.51	95.86	98.21	100.56	102.91	105.26	107.61

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL21W-SL8012

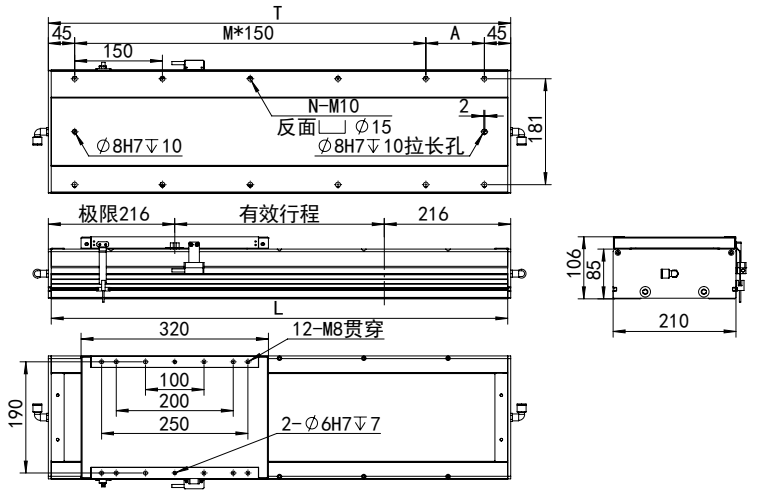


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	77	19	115	211	307	403	499	595	691	787	883	979	1075	1171	1267	1363	1459	1555	1651	1747
T	310	406	502	598	694	790	886	982	1078	1174	1270	1366	1462	1558	1654	1750	1846	1942	2038	2134
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30
kg	17.92	20.27	22.14	24.01	25.88	27.75	29.62	31.49	33.36	35.23	37.1	38.97	40.84	42.71	44.58	46.45	48.32	50.19	52.06	53.93

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1843	1939	2035	2131	2227	2323	2419	2515	2611	2707	2803	2899	2995	3091	3187	3283	3379	3475	3571	3667
T	2230	2326	2422	2518	2614	2710	2806	2902	2998	3094	3190	3286	3382	3478	3574	3670	3766	3862	3958	4054
A	40	136	82	28	124	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64
M	14	14	15	16	16	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56
kg	55.8	57.67	59.54	61.41	63.28	65.15	67.02	68.89	70.76	72.63	74.5	76.37	78.24	80.11	81.98	83.85	85.72	87.59	89.46	91.33

DDL21W-SL8015



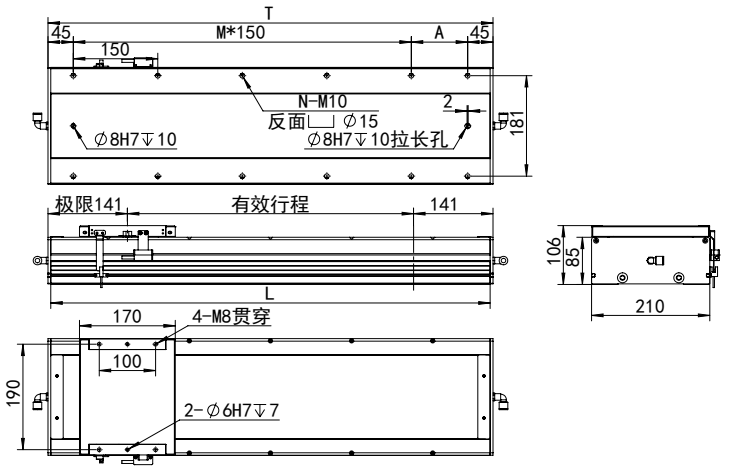
Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	122	26	70	166	262	358	454	550	646	742	838	934	1030	1126	1222	1318	1414	1510	1606	1702
T	310	406	502	598	694	790	886	982	1078	1174	1270	1366	1462	1558	1654	1750	1846	1942	2038	2134
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30
kg	19.29	21.64	23.99	26.34	28.69	31.04	33.39	35.74	38.09	40.44	42.79	45.14	47.49	49.84	52.19	54.54	56.89	59.24	61.59	63.94

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1798	1894	1990	2086	2182	2278	2374	2470	2566	2662	2758	2854	2950	3046	3142	3238	3334	3430	3526	3622
T	2230	2326	2422	2518	2614	2710	2806	2902	2998	3094	3190	3286	3382	3478	3574	3670	3766	3862	3958	4054
A	40	136	82	28	124	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64
M	14	14	15	16	16	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56
kg	66.29	68.64	70.99	73.34	75.69	78.04	80.39	82.74	85.09	87.44	89.79	92.14	94.49	96.84	99.19	101.54	103.89	106.24	108.59	110.94

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL21W-SL10006

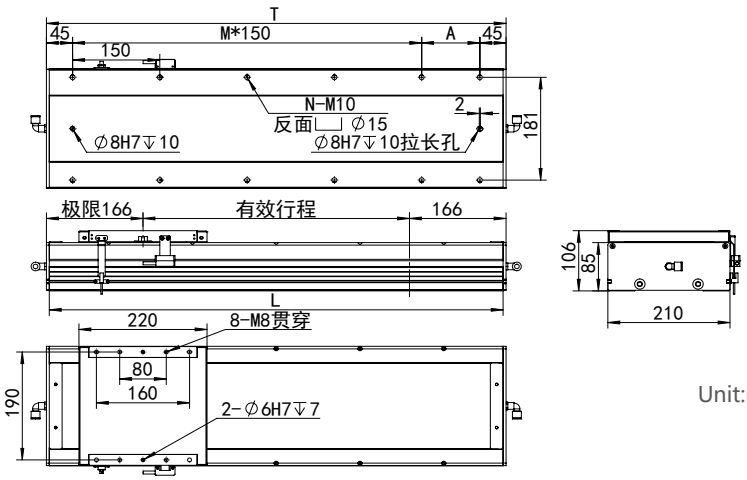


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	28	124	220	316	412	508	604	700	796	892	988	1084	1180	1276	1372	1468	1564	1660	1756	1852
T	310	406	502	598	694	790	886	982	1078	1174	1270	1366	1462	1558	1654	1750	1846	1942	2038	2134
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30
kg	15.33	17.75	20.17	22.59	25.01	27.43	29.85	32.27	34.69	37.11	39.53	41.95	44.37	46.79	49.21	51.63	54.05	56.47	58.89	61.31

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1948	2044	2140	2236	2332	2428	2524	2620	2716	2812	2908	3004	3100	3196	3292	3388	3484	3580	3676	3772
T	2230	2326	2422	2518	2614	2710	2806	2902	2998	3094	3190	3286	3382	3478	3574	3670	3766	3862	3958	4054
A	40	136	82	28	124	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64
M	14	14	15	16	16	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56
kg	63.73	66.15	68.57	70.99	73.41	75.83	78.25	80.67	83.09	85.51	87.93	90.35	92.77	95.19	97.61	100.03	102.45	104.87	107.29	109.71

DDL21W-SL10009



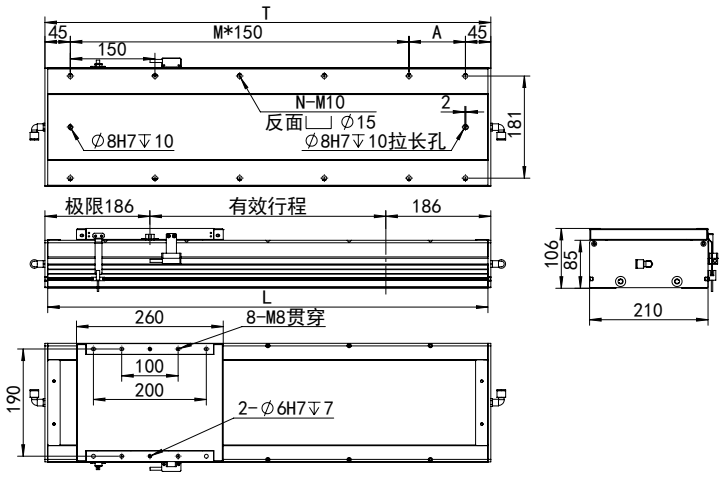
Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	22	74	170	266	362	458	554	650	746	842	938	1034	1130	1226	1322	1418	1514	1610	1706	1802
T	310	406	502	598	694	790	886	982	1078	1174	1270	1366	1462	1558	1654	1750	1846	1942	2038	2134
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30
kg	17.03	19.45	21.87	24.29	26.71	29.13	31.55	33.97	36.39	38.81	41.23	43.65	46.07	48.49	50.91	53.33	55.75	58.17	60.59	63.01

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1898	1994	2090	2186	2282	2378	2474	2570	2666	2762	2858	2954	3050	3146	3242	3338	3434	3530	3626	3722
T	2230	2326	2422	2518	2614	2710	2806	2902	2998	3094	3190	3286	3382	3478	3574	3670	3766	3862	3958	4054
A	40	136	82	28	124	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64
M	14	14	15	16	16	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56
kg	65.43	67.85	70.27	72.69	75.11	77.53	79.95	82.37	84.79	87.21	89.63	92.05	94.47	96.89	99.31	101.73	104.15	106.57	108.99	111.41

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DDL21W-SL10012

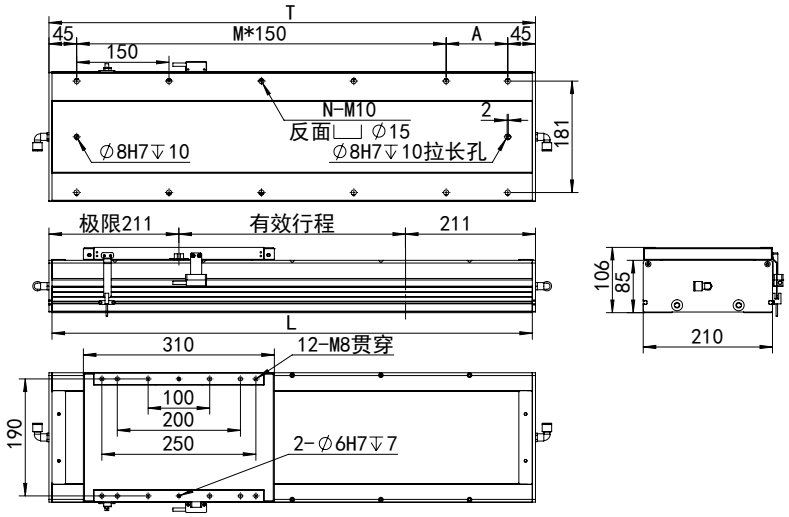


Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	62	34	130	226	322	418	514	610	706	802	898	994	1090	1186	1282	1378	1474	1570	1666	1762
T	310	406	502	598	694	790	886	982	1078	1174	1270	1366	1462	1558	1654	1750	1846	1942	2038	2134
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30
kg	19.18	21.6	24.02	26.44	28.86	31.28	33.7	36.12	38.54	40.96	43.38	45.8	48.22	50.64	53.06	55.48	57.9	60.32	62.74	65.16

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1858	1954	2050	2146	2242	2338	2434	2530	2626	2722	2818	2914	3010	3106	3202	3298	3394	3490	3586	3682
T	2230	2326	2422	2518	2614	2710	2806	2902	2998	3094	3190	3286	3382	3478	3574	3670	3766	3862	3958	4054
A	40	136	82	28	124	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64
M	14	14	15	16	16	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56
kg	67.58	70	72.42	74.84	77.26	79.68	82.1	84.52	86.94	89.36	91.78	94.2	96.62	99.04	101.46	103.88	106.3	108.72	111.14	113.56

DDL21W-SL10015



Unit:mm

Base length	300	396	492	588	684	780	876	972	1068	1164	1260	1356	1452	1548	1644	1740	1836	1932	2028	2124
Stroke	112	16	80	176	272	368	464	560	656	752	848	944	1040	1136	1232	1328	1424	1520	1616	1712
T	310	406	502	598	694	790	886	982	1078	1174	1270	1366	1462	1558	1654	1750	1846	1942	2038	2134
A	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64	160	106	52	148	94
M	1	1	2	3	3	4	5	5	6	7	7	8	9	9	10	10	11	12	12	13
N	6	6	8	10	10	12	14	14	16	18	18	20	22	22	24	24	26	28	28	30
kg	20.93	23.35	25.77	28.19	30.61	33.03	35.45	37.87	40.29	42.71	45.13	47.55	49.97	52.39	54.81	57.23	59.65	62.07	64.49	66.91

Base length	2220	2316	2412	2508	2604	2700	2796	2892	2988	3084	3180	3276	3372	3468	3564	3660	3756	3852	3948	4044
Stroke	1808	1904	2000	2096	2192	2288	2384	2480	2576	2672	2768	2864	2960	3056	3152	3248	3344	3440	3536	3632
T	2230	2326	2422	2518	2614	2710	2806	2902	2998	3094	3190	3286	3382	3478	3574	3670	3766	3862	3958	4054
A	40	136	82	28	124	70	166	112	58	154	100	46	142	88	34	130	76	22	118	64
M	14	14	15	16	16	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26
N	32	32	34	36	36	38	38	40	42	42	44	46	46	48	50	50	52	54	54	56
kg	69.33	71.75	74.17	76.59	79.01	81.43	83.85	86.27	88.69	91.11	93.53	95.95	98.37	100.79	103.21	105.63	108.05	110.47	112.89	115.31

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

02 >>> Rotor Stator



Rotor ordering rules

SL	50	06	S
Motor model	Width 50/80/130	coil	S: parallel connection N: series connection

Stator ordering rules

SL	50	P	144
Motor model	width 50/80/130	coil	Length 96/144/192/288

SL50 series iron core linear motor

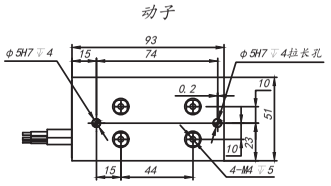


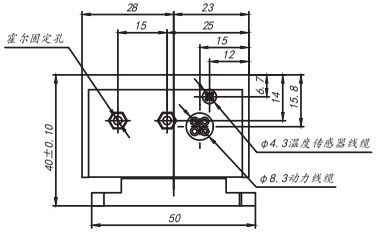
Parameter		Note	Symbol	Unit	SL5003		SL5006		SL5009		SL5012		SL5015		SL5018	
Performance	Winding type				S	Z	S	Z	N	S	N	S	N	S	N	S
	Motor type, maximum voltage phase-phase				three-phase permanent magnet synchronous motor，400Vac rms（565Vdc）											
	Peak thrust @ 10 °C / s temperature rise	magnet@25℃	Fu	N	120		240		360		480		600		720	
	Continuous thrust	coil@100℃	Fc	N	60		120		180		240		300		360	
	Maximum speed	continuous thrust@600V	Vmax	m/s	12	36.5	12	36.5	6	12	6	12	6	12	4.5	10
	Motor thrust constant	mount. sfc.@20℃	K	N/Arms	39	12.9	39	12.9	80	39	80	39	80	40	80	39
	Electrical frequency center machine constant	coils@25℃	S	N^2/W	95		190		290		380		480		570	
Electrical	Peak current	magnet@25℃	Iu	Arms	4.1	12.6	8.2	25.1	6.3	12.3	8.2	16.4	10.4	20.5	12.3	25.1
	Continuous current	coils@100℃	Ic	Arms	1.5	4.7	3	9.3	2.3	4.5	3	6	2.8	7.5	4.5	9.3
	back electro-motive force interphase peak		Bemf	V/m/s	32	11	32	11	63	32	64	32	64	32	65	32
	Interphase resistance	coils@25℃	R	Ω	10.8	1.12	5.4	0.56	13.68	3.6	10.8	2.7	12.96	1.1	7.2	1.7
	Phase inductance	I<0.6Ip	Lph	mH	35	3.65	17	1.83	44.46	11.5	35.42	9	28.6	7.2	23	5.5
	Electrical time constant	coils@25℃	τe	ms	6.5											
	Maximum continuous power loss	all coils	Pc	W	49		99		149		197		245		296	
Thermal performa	Thermal resistance	coils to mount.sfc	Rth	℃ /W	1.5		0.75		0.8		0.38		0.31		0.25	
	Thermistor / temperature sensor				PTC 1KΩ/KTY 83-122											
Mechanics	Mover weight	ex.cables	W	kg	0.6		0.9		1.3		1.95		2.4		2.3	
	Mover length	ex.cables	L	mm	93		143		191		241		276		336	
	Magnetic attraction of motor	rms@0A	Fa	N	300		500		850		900		1125		1300	
	Pole-pitch N-N		τ	mm	24											

Wire cable			
Equipped with 0.5 meter length cable			
Magnetic plate size			
Length（mm）	96	144	288
M5 bolt hole	4	6	12
Quality（kg/m）	2.1		
The magnetic plate can be spliced and combined			

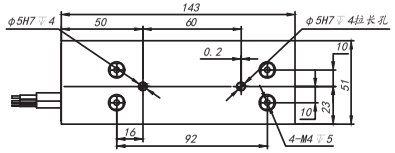
Coil units

SL5003

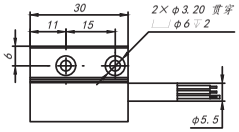




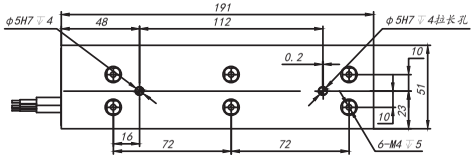
SL5006



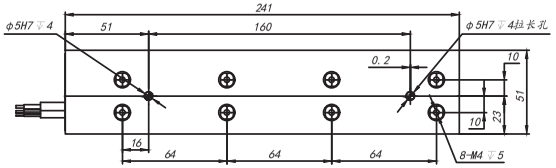
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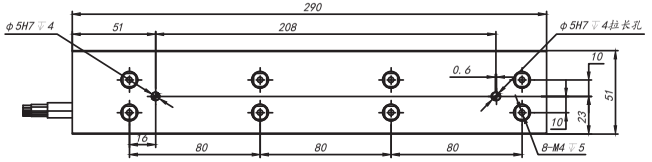
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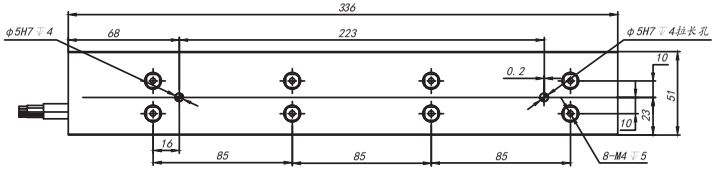
SL5012



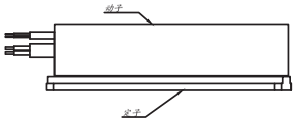
SL5015



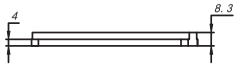
SL5018



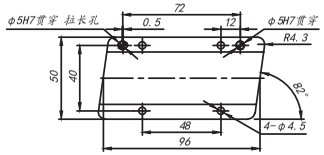
Magnet plate



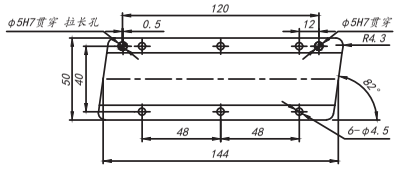
定子板



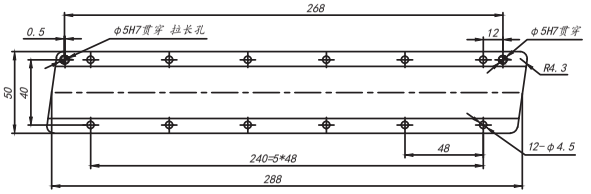
SL50P096



SL50P144



SL50P288





SL80 series linear motor with iron core



Parameter		Note	Symbol	Unit	SL8003		SL8006		SL8009			SL8012		
Performance	Winding type				N	Z	N	S	N	S	Z	N	S	Z
	Motor type, maximum voltage phase-phase				three-phase permanent magnet synchronous motor，400Vac rms（565Vdc）									
	Peak thrust @ 10 ° C / s temperature rise	magnet@25℃	Fu	N	225		450		675			900		
	Continuous thrust (water-cooled)	coil@100℃	Fc	N	100		200		300			400		
	Maximum speed	continuous thrust @600V	Vmax	m/s	7	15	3.5	7	2.5	7	4.5	3.5	7	4.5
	Motor thrust constant	mount. sfc.@20℃	K	N/ Arms	46.5	22	93	46.5	140	46.5	67	93	46.5	67
	Motor constant	coils@25℃	S	N^2/W	190		380		570			760		
Electrical	Peak current	magnet@25℃	Iu	Arms	6.7	13.8	6.5	13.1	6.5	19.6	13.8	13.1	26.2	17.6
	Continuous current	coils@100℃	Ic	Arms	2.26	4.7	2.26	4.5	2.26	6.8	4.7	4.5	9	6
	Back electro-motive force interphase peak		Bemf	V/m/s	38	18	76	38	114	38	54	76	38	54
	Interphase resistance	coils@25℃	R	Ω	7.2	1.68	14.4	3.6	21.6	2.42	5.22	7.2	1.8	4.26
	Phase inductance	I<0.6Ip	Lph	mH	27.1	6.3	54	14	81	9	19.6	27	7	16
	Electrical time constant	coils@25℃	τe	ms	7.5									
	Maximum continuous power loss	all coils	Pc	W	75		150		225			300		
Thermal performance	Thermal resistance	coils to mount.sfc	Rth	℃ /W	1		0.48		0.32			0.24		
	Thermistor / temperature sensor				PTC 1KΩ/KTY 83-122									
Mechanics	Mover weight	ex.cables	W	kg	0.9		1.5		2			2.6		
	Mover length	ex.cables	L	mm	85		146		194			244		
	Magnetic attraction of motor	rms@0A	Fa	N	475		950		1325			1700		
	Pole-pitch N-N		τ	mm	24									

Wire cable			
Equipped with 0.5 meter length cable			
Magnetic plate size			
Length（mm）	144	192	288
M5 bolt hole	6	8	12
Quality（kg/m）	3.8		
The magnetic plate can be spliced and combined			

SL80 series linear motor with iron core

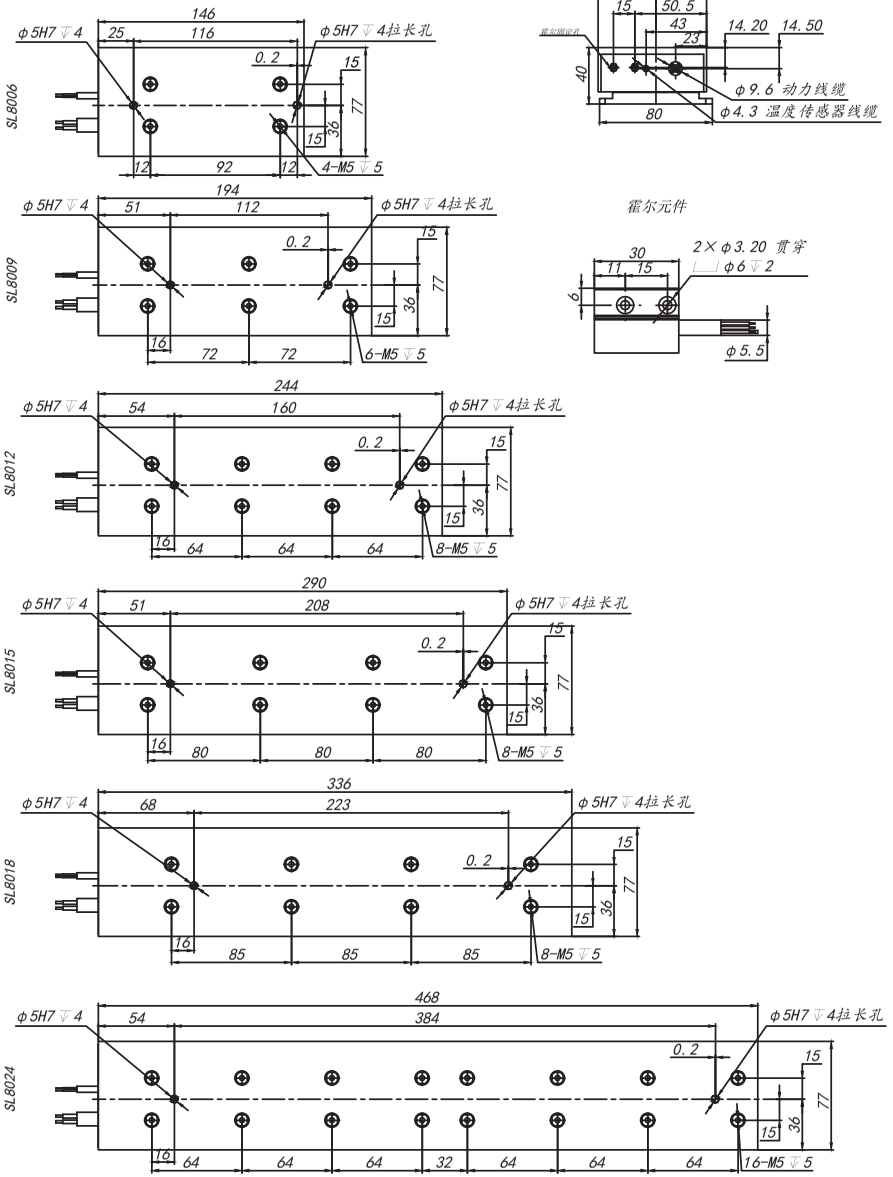


Parameter		Note	Symbol	Unit	SL8015			SL8018		SL8024	
Performance	Winding type				N	S	Z	N	S	N	S
	Motor type, maximum voltage phase-phase				three-phase permanent magnet synchronous motor，400Vac rms（565Vdc）						
	Peak thrust @ 6° C / s temperature rise	magnet@25℃	Fp	N	1125			1350		1800	
	Continuous thrust (water-cooled)	coil@100℃	Fc	N	500			600		800	
	Maximum speed	continuous thrust @600V	Vmax	m/s	3.5	7	4.5	3.5	7	3.5	7
	Motor thrust constant	mount. sfc.@20℃	K	N/Arms	112	46.5	67	93	44.9	93	46.5
	Motor constant	coils@25℃	S	N^2/W	950			1140		1520	
Electrical	Peak current	magnet@25℃	Ip	Arms	13.5	32.7	22.3	19.6	41	26.2	52
	Maximum continuous current	coils@100℃	Ic	Arms	4.7	11.3	7.6	6.8	14	9	18.1
	Back electro-motive force interphase peak		Bemf	V/m/s	92	38	54	76	38	76	38
	Interphase resistance	coils@25℃	R	Ω	8.6	1.44	3.4	4.82	1.18	3.62	0.92
	Interphase resistance	I<0.6Ip	Lph	mH	32	5.4	12.8	18	4.4	14	3.4
	Electrical time constant	coils@25℃	τe	ms	7.5						
	Maximum continuous power loss	all coils	Pc	W	375			450		600	
Thermal performance	Thermal resistance	coils to mount.sfc	Rth	℃ /W	0.19			0.16		0.12	
	Thermistor / temperature sensor				PTC 1KΩ/KTY 83-122						
Mechanics	Mover weight	ex.cables	W	kg	3.2			3.8		5.2	
	Mover length	ex.cables	L	mm	290			336		468	
	Magnetic attraction of motor	rms@0A	Fa	N	2075			2450		3400	
	Pole-pitch N-N		τ	mm	24						

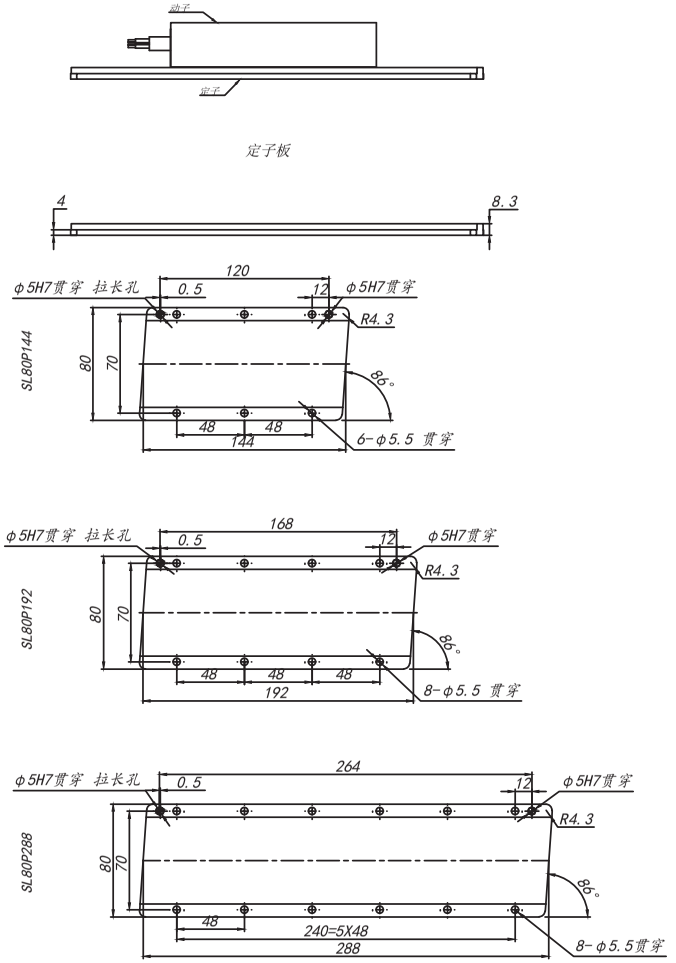
Wire cable			
Equipped with 0.5 meter length cable			
Magnetic plate size			
Length（mm）	144	192	288
M5 bolt hole	6	8	12
Quality（kg/m）	3.8		
The magnetic plate can be spliced and combined			

SL80 series linear motor with iron core

Coil units



Magnet plate





SL100 series linear motor with iron core



Parameter		Note	Sign	Unit	SL10003		SL10006		SL10009			SL10012		
Performance	Winding type				N	Z	N	S	N	S	Z	N	S	Z
	Motor type, maximum voltage phase-phase				three-phase permanent magnet synchronous motor，400Vac rms（565Vdc）									
	Peak thrust @ 6° C / s temperature rise	magnet@25℃	Fu	N	305		610		915			1220		
	Continuous thrust (water-cooled)	coil@100℃	Fc	N	135		270		405			540		
	Maximum speed	continuous thrust @600V	Vmax	m/s	6.5	13	3.2	6.5	2.2	6.5	4.3	3.2	6.5	4.3
	Motor thrust constant	mount. sfc.@20℃	K	N/ Arms	61	30	122	61	183	61	90	122	61	90
	Motor constant	coils@25℃	S	N^2/W	272		544		816			1088		
Electricity	Peak current	magnet@25℃	Iu	Arms	6.8	13.9	6.8	13.6	6.8	20.3	13.9	13.6	27.1	17.9
	Maximum continuous current	coils@100℃	Ic	Arms	2.2	4.5	2.2	4.4	2.2	6.6	4.5	4.4	8.8	5.8
	Back electro-motive force interphase peak		Bemf	V/m/s	54	26	108	54	162	54	78	108	54	78
	Interphase resistance	coils@25℃	R	Ω	9.2	2.2	18.4	4.6	27.6	3.06	6.6	9.2	2.3	5.5
	Phase inductance	I<0.6Ip	Lph	mH	35.9	8.6	71.8	17.9	107.6	11.9	25.8	35.9	9	21.5
	Electrical time constant	coils@25℃	τe	ms	7.8									
	Maximum continuous power loss	all coils	Pc	W	86		172		258			344		
Thermal performance	Thermal resistance	coils to mount.sfc	Rth	℃ /W	0.88		0.44		0.29			0.22		
	Thermistor / temperature sensor				PTC 1KΩ/KTY 83-122									
Machinery	Mover weight	ex.cables	W	kg	1.3		2.2		3.1			4		
	Mover length	ex.cables	L	mm	85		132		180			228		
	Magnetic attraction of motor	rms@0A	Fa	N	6500		1300		1950			2600		
	Pole-pitch N-N		τ	mm	24									

Wire cable			
Equipped with 0.5 meter length cable			
Magnetic plate size			
Length（mm）	144	192	288
M5 bolt hole	6	8	12
Quality（kg/m）	3.8		
The magnetic plate can be spliced and combined			

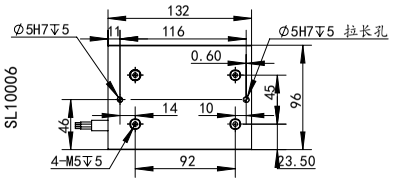
SL100 series linear motor with iron core

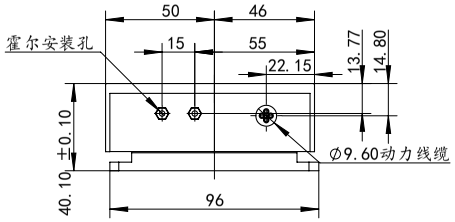


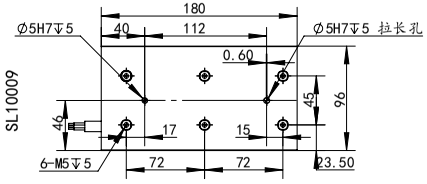
Parameter		Note	Sign	Unit	SL10015			SL10018		SL10024	
Performance	Winding type				N	S	Z	N	S	N	S
	Motor type, maximum voltage phase-phase				three-phase permanent magnet synchronous motor，400Vac rms（565Vdc）						
	Peak thrust @ 6° C / s temperature rise	magnet@25℃	Fp	N	1525			1830		2440	
	Continuous thrust (water-cooled)	coil@100℃	Fc	N	675			810		1080	
	Maximum speed	连续推力 @600V	Vmax	m/s	2.8	6.5	4.3	3.2	6.5	3.2	6.5
	Motor thrust constant	mount.sfc.@20℃	K	N/Arms	150	61	90	122	61	122	61
	Motor constant	coils@25℃	S	N^2/W	1360			1632		2176	
Electricity	Peak current	magnet@25℃	Ip	Arms	13.9	33.9	22.3	20.3	40.7	27.1	54.2
	Maximum continuous current	coils@100℃	Ic	Arms	4.5	11	7.2	6.6	13.2	8.8	17.6
	Back electro-motive force interphase peak		Bemf	V/m/s	130	54	78	108	54	108	54
	Interphase resistance	coils@25℃	R	Ω	11	1.84	4.4	6.2	1.54	4.6	1.16
	Phase inductance	I<0.6Ip	Lph	mH	42.9	7.2	17.2	24.2	6	17.9	4.5
	Electrical time constant	coils@25℃	τe	ms	7.8						
	Maximum continuous power loss	all coils	Pc	W	430			516		688	
Thermal performance	Thermal resistance	coils to mount.sfc	Rth	℃ /W	0.17			0.15		0.11	
	Thermistor / temperature sensor										
Machinery	Mover weight	ex.cables	W	kg	4.9			5.8		7.8	
	Mover length	ex.cables	L	mm	276			324		468	
	Magnetic attraction of motor	rms@0A	Fa	N	3250			3900		5200	
	Pole-pitch N-N		τ	mm	24						

Wire cable			
Equipped with 0.5 meter length cable			
Magnetic plate size			
Length（mm）	144	192	288
M5 bolt hole	6	8	12
Quality（kg/m）	3.8		
The magnetic plate can be spliced and combined			

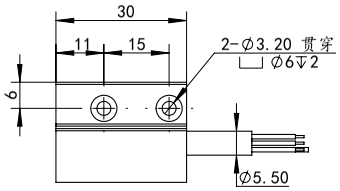
Coil units

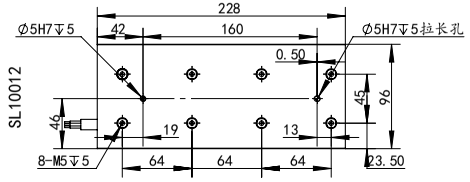


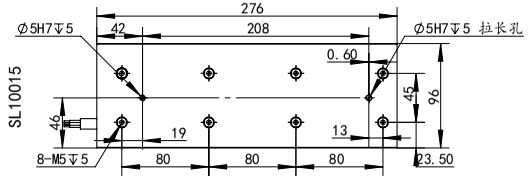


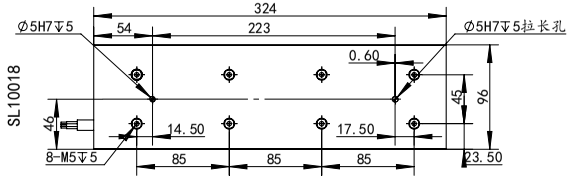


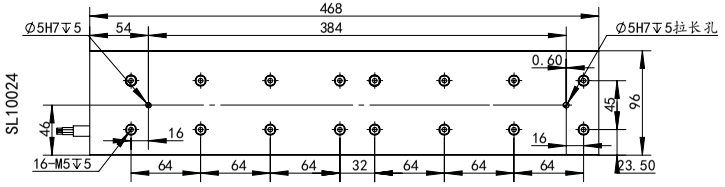
霍尔元件



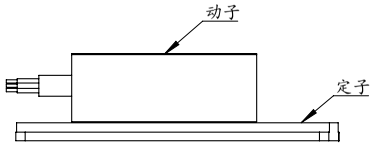


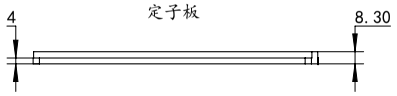


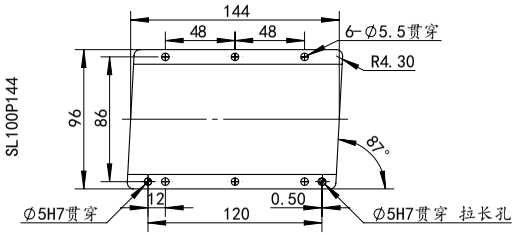


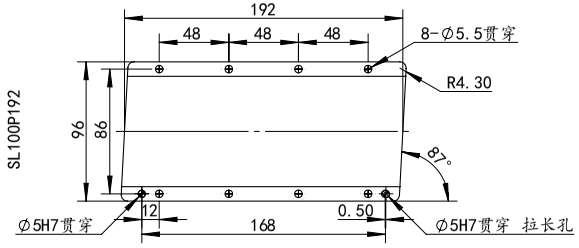


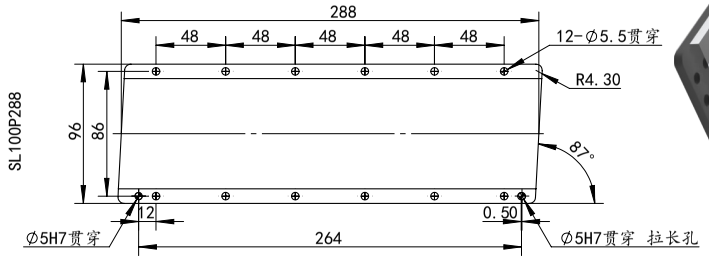
Magnet plate













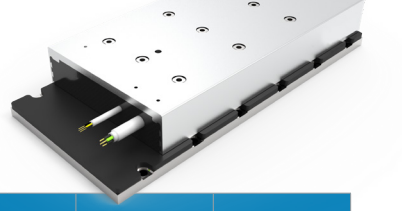
SL130 series linear motor with iron core



Parameter		Note	Sign	Unit	SL13006		SL13009			SL13012		
Performance	Winding type				N	S	N	S	Z	N	S	Z
	Motor type, maximum voltage phase-phase				Three-phase permanent magnet synchronous motor，400Vac rms（565Vdc）							
	Peak thrust @ 10 ° C / s temperature rise	magnet@25℃	Fu	N	900		1350			1800		
	Continuous thrust	coil@100℃	Fc	N	380		570			760		
	Maximum speed	Continuous thrust @600V	Vmax	m/s	3	6	2	6	4	3	6	4
	Motor thrust constant	mount. sfc.@20℃	K	N/Arms	186	93	270	93	135	186	93	135
	Motor constant	coils@25℃	S	N^2/W	875		1075			1750		
Electricity	Peak current	magnet@25℃	Iu	Arms	6.5	13	6.5	20	13.9	13	26	17.8
	Continuous current	coils@100℃	Ic	Arms	2.1	4.1	2.1	6.2	4.3	4.1	8.2	5.5
	back electro-motive force interphase peak		Bemf	V/m/s	152	76	228	76	115	152	76	115
	Interphase resistance	coils@25℃	R	Ω	25.2	6.3	37.8	4.2	9	12.6	3.2	7.4
	Phase inductance	I<0.6Ip	Lph	mH	102	26	153	17	36	51	13	29.6
	Electrical time constant	coils@25℃	τe	ms	8							
	Maximum continuous power loss	all coils	Pc	W	215		330			430		
Thermal performance	Thermal resistance	coils to mount.sfc	Rth	℃ /W	0.3		0.018			0.15		
	Thermistor / temperature sensor				PTC 1KΩ/KTY 83-122							
Machinery	Mover weight	ex.cables	W	kg	3		4			4.9		
	Mover length	ex.cables	L	mm	146		194			244		
	Magnetic attraction of motor	rms@0A	Fa	N	1700		2600			3400		
	Pole-pitch N-N		τ	mm	24							

Wire cable			
Equipped with 0.5 meter length cable			
Magnetic plate size			
Length（mm）	144	192	288
M5 bolt hole	6	8	12
Quality（kg/m）	3.8		
The magnetic plate can be spliced and combined			

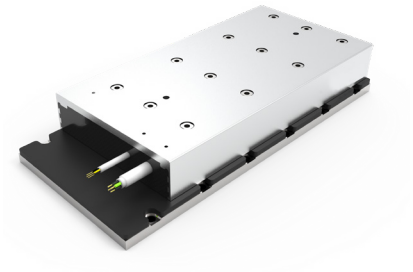
SL130 series linear motor with iron core



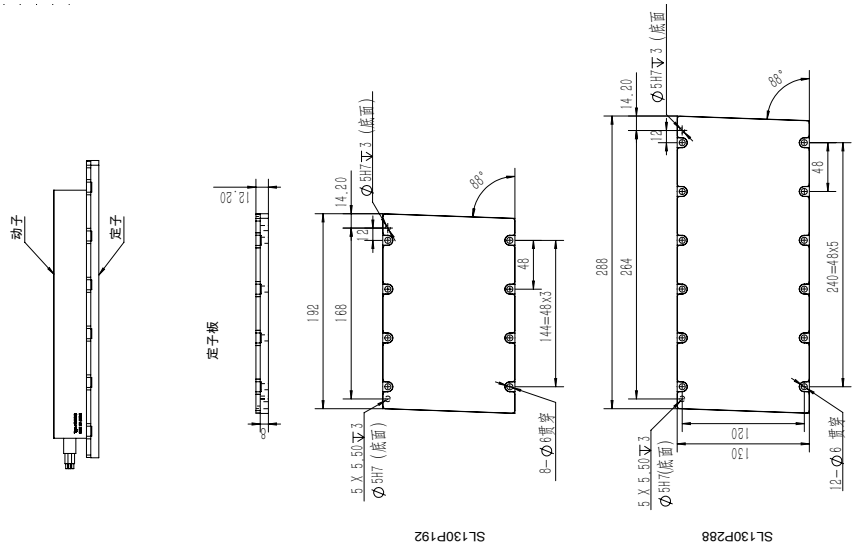
Parameter		Note	Sign	Unit	SL13015			SL13018		SL13024		SL13030	
Performance	Winding type				N	S	Z	N	S	N	S	N	S
	Motor type, maximum voltage phase-phase				Three-phase permanent magnet synchronous motor，400Vac rms（565Vdc）								
	Peak thrust @ 10 ° C / s temperature rise	magnet@25℃	Fu	N	2250			2700		3600	3600	4500	4500
	Continuous thrust	coil@100℃	Fc	N	950			1140		1520	1520	1900	1900
	Maximum speed	Continuous thrust @600V	Vmax	m/s	2.5	6	4	3	6	2.5	6	2.5	6
	Motor thrust constant	mount. sfc.@20℃	K	N/Arms	225	93	135	186	93	186	93	225	93
	Motor constant	coils@25℃	S	N^2/W	2150			2640		3500		4300	
Electricity	Peak current	magnet@25℃	Iu	Arms	13.5	33	22.3	20	40	26	52	27	66
	Continuous current	coils@100℃	Ic	Arms	4.2	10.2	6.9	6.1	12.3	8.2	16.4	8.5	20.5
	back electro-motive force interphase peak		Bemf	V/m/s	183	76	115	152	76	152	76	183	76
	Interphase resistance	coils@25℃	R	Ω	15.2	2.6	5.92	8.4	2.14	6.4	1.6	7.6	1.3
	Phase inductance	I<0.6Ip	Lph	mH	60	10	23.7	34	10	25.5	6.5	30	5
	Electrical time constant	coils@25℃	τe	ms	8								
	Maximum continuous power loss	all coils	Pc	W	530			640		853		1060	
Thermal performance	Thermal resistance	coils to mount.sfc	Rth	℃ /W	0.12			0.11		0.08		0.06	
	Thermistor / temperature sensor												
Machinery	Mover weight	ex.cables	W	kg	5.9			6.9		10		11.6	
	Mover length	ex.cables	L	mm	290			336		468		562	
	Magnetic attraction of motor	rms@0A	Fa	N	4150			4900		6900		8300	
	Pole-pitch N-N		τ	mm	24								

Wire cable			
Equipped with 0.5 meter length cable			
Magnetic plate size			
Length（mm）	144	192	288
M5 bolt hole	6	8	12
Quality（kg/m）	3.8		
The magnetic plate can be spliced and combined			

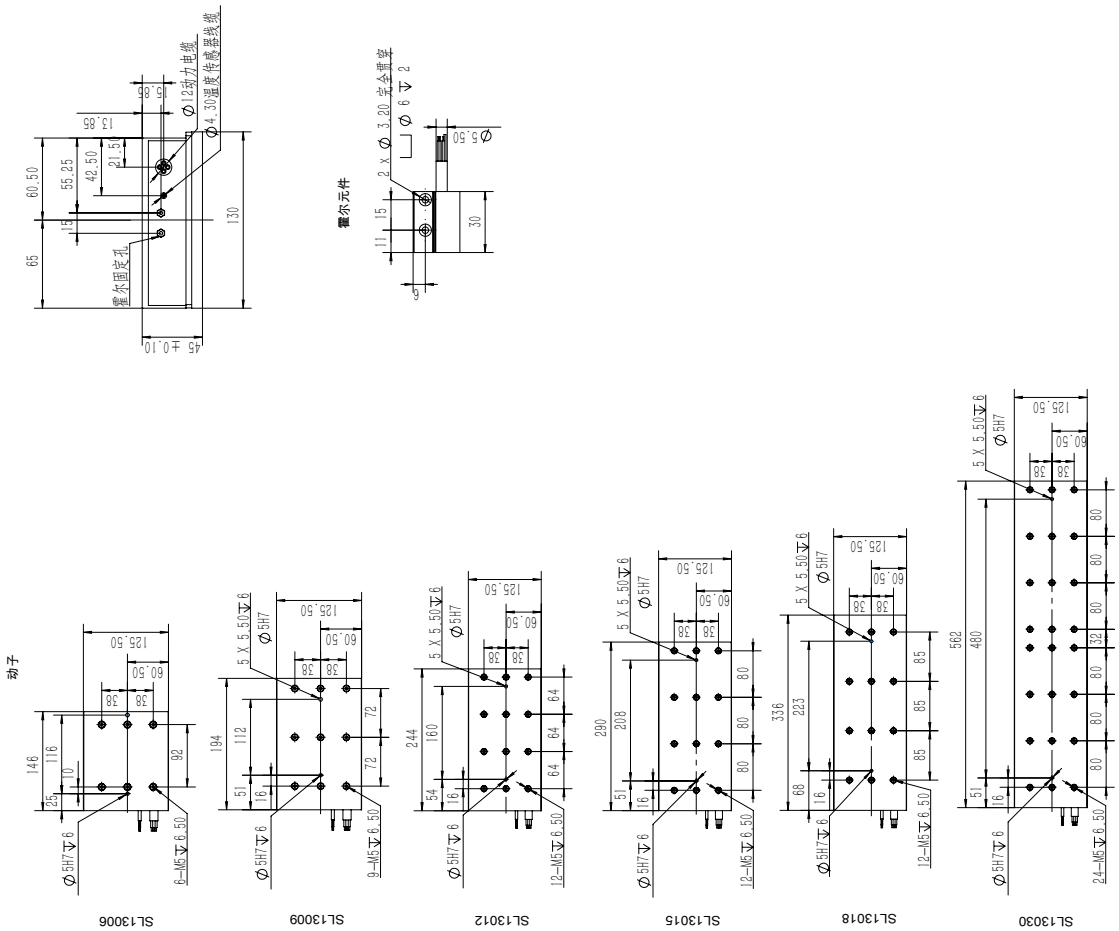
SL130 series linear motor with iron



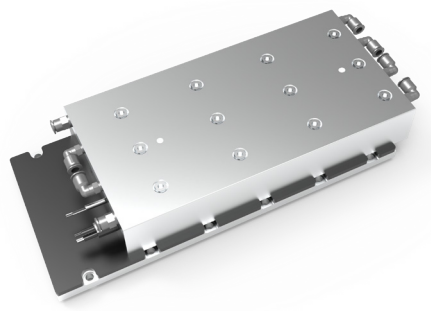
Magnet plate



Coil units



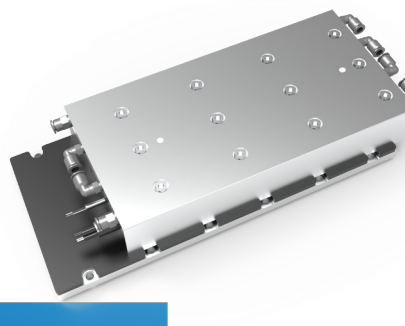
SLW130 series water-cooled iron-core linear motor



Parameter		Note	Sign	Unit	SLW13012		SLW13015		SLW13018	
Performance	Winding type				N	S	N	S	N	S
	Motor type, maximum voltage phase-phase				Three-phase permanent magnet synchronous motor，400Vac rms（565Vdc）					
	Peak thrust @10° C / s temperature rise	magnet@25℃	Fp	N	1900		2375		2850	
	Continuous thrust	coil@100℃	Fc	N	1040		1300		1560	
	Maximum speed	Continuous thrust @600V	Vmax	m/s	3	6	3	6	3	6
	Motor thrust constant	mount.sfc.@20℃	K	N/Arms	186	93	225	93	186	93
	Motor constant	coils@25℃	S	N^2/W	1750		2150		2640	
Electricity	Peak current	magnet@25℃	Ip	Arms	14	28	14	35	21	43
	Continuous current	coils@100℃	Ic	Arms	6	11	6	14	8	17
	back electro-motive force interphase peak		Bemf	V/m/s	152	76	183	76	152	76
	Interphase resistance	coils@25℃	R	Ω	12.6	3.2	15.2	2.6	8.4	2.14
	Phase inductance	I<0.6Ip	Lph	mH	51	13	60	10	34	10
	Electrical time constant	coils@25℃	τe	ms	51					
	Maximum continuous power loss	all coils	Pc	W	430		530		640	
Thermal performance	Thermal resistance	coils to mount.sfc	Rth	℃ /W	0.15		0.12		0.11	
	Thermistor / temperature sensor									
Machinery	Mover weight	ex.cables	W	kg	4.9		5.9		6.9	
	Mover length	ex.cables	L	mm	244		290		336	
	Magnetic attraction of motor	rms@0A	Fa	N	3400		4150		4900	
	Pole-pitch N-N		τ	mm	24					

Wire cable			
Equipped with 0.5 meter length cable			
Magnetic plate size			
Length（mm）	144	192	288
M5 bolt hole	6	8	12
Quality（kg/m）	3.8		
The magnetic plate can be spliced and combined			

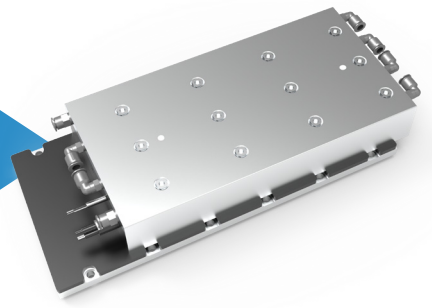
SLW130 series water-cooled iron-core linear motor



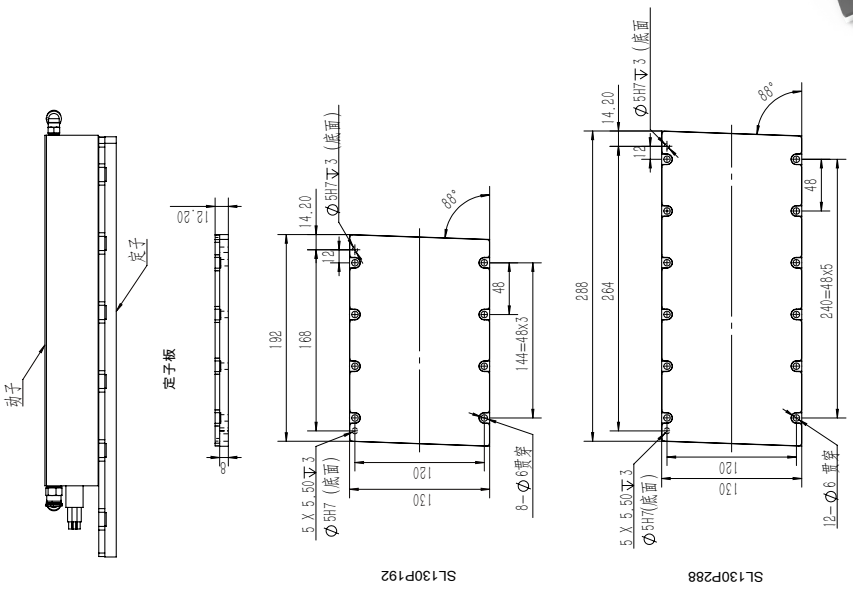
Parameter		Note	Sign	Unit	SLW13030		SLW13045	
Performance	Winding type				N	S	N	S
	Motor type, maximum voltage phase-phase				Three-phase permanent magnet synchronous motor，400Vac rms（565Vdc）			
	Peak thrust @10° C / s temperature rise	magnet@25℃	Fp	N	4750		7125	
	Continuous thrust	coil@100℃	Fc	N	2600		3900	
	Maximum speed	连续推力 @600V	Vmax	m/s	3	6	3	6
	Motor thrust constant	mount.sfc.@20℃	K	N/Arms	225	93	225	93
	Motor constant	coils@25℃	S	N^2/W	3500		4300	
Electricity	Peak current	magnet@25℃	Ip	Arms	29	69	43	104
	Continuous current	coils@100℃	Ic	Arms	12	28	17	42
	back electro-motive force interphase peak		Bemf	V/m/s	152	76	183	76
	Interphase resistance	coils@25℃	R	Ω	6.4	1.6	7.6	1.3
	Phase inductance	I<0.6Ip	Lph	mH	25.5	6.5	30	5
	Electrical time constant	coils@25℃	τe	ms				
	Maximum continuous power loss	all coils	Pc	W	853		1060	
Thermal performance	Thermal resistance	coils to mount.sfc	Rth	℃ /W	0.08		0.06	
	Thermistor / temperature sensor							
Machinery	Mover weight	ex.cables	W	kg	10		11.6	
	Mover length	ex.cables	L	mm	468		562	
	Magnetic attraction of motor	rms@0A	Fa	N	6900		8300	
	Pole-pitch N-N		τ	mm	24			

Wire cable		
Equipped with 0.5 meter length cable		
Magnetic plate size		
Length（mm）	192	288
M5 bolt hole	8	12
Quality（kg/m）	10.5	
The magnetic plate can be spliced and combined		

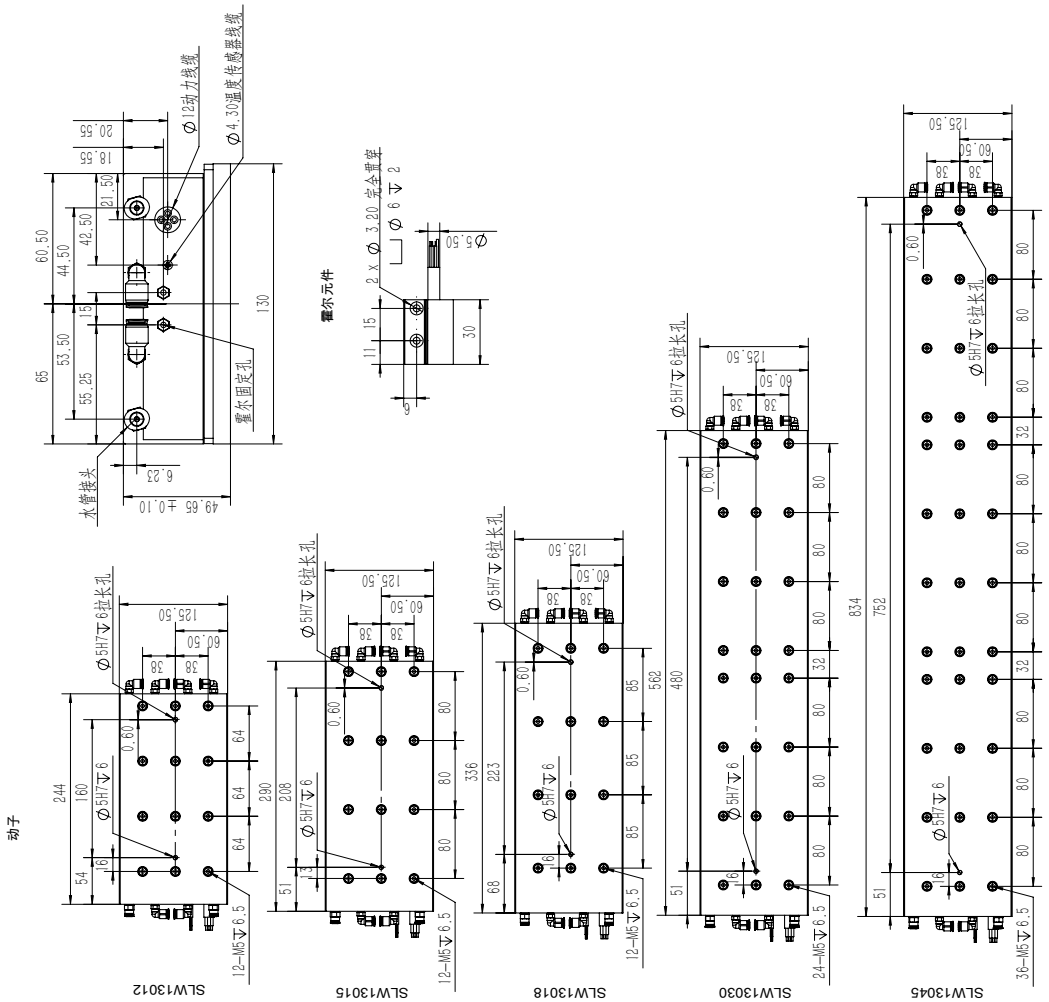
SLW130 series water-cooled iron-core linear motor



Magnet plate



Coil units

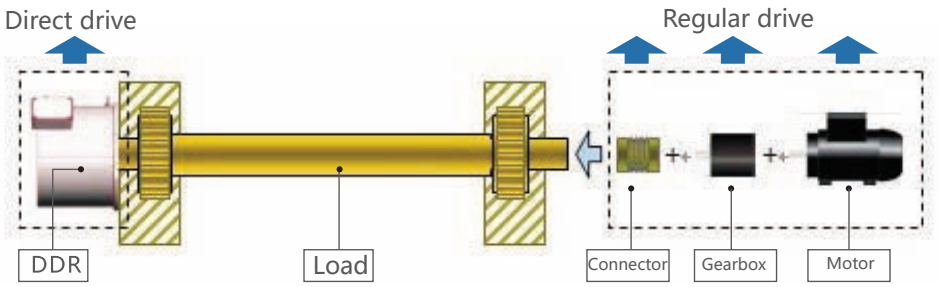


03 DD motor



DDR series iron core direct drive motor

High-quality products, and excellent service, direct drive series products have been widely recognized by customers; Relying on advanced
motor design technology and mature technology, the company successfully declared the "high-torque torque motor and drive device" project
of the national "high-end CNC machine tools and basic manufacturing equipment" science and technology major project. The company has the
theoretical research level and comprehensive design ability of DDR motor and drive system, has formed a new series of DDR motor standard
products with continuous torque from 2Nm to 3300Nm, and has filed the first domestic torque motor enterprise standard



The torque motor adopts direct drive, it has high dynamic performance and high reliability

- **Direct force extension**
- **Maintenance-free drive**
- **Simplify mechanical design**
- **High positioning accuracy**
- **High dynamic response and good drive control quality**
- **Simple installation and removal**
- **High dynamic and static load rigidity**

Most of the company's specifications are in stock for a long time, and it is recommended that customers prefer the company's standard products; In order to better meet the actual working conditions of customers, customized services can also be provided according to customer requirements.

Comparison among DDR Motor, Servo Motor, and Stepper Motor

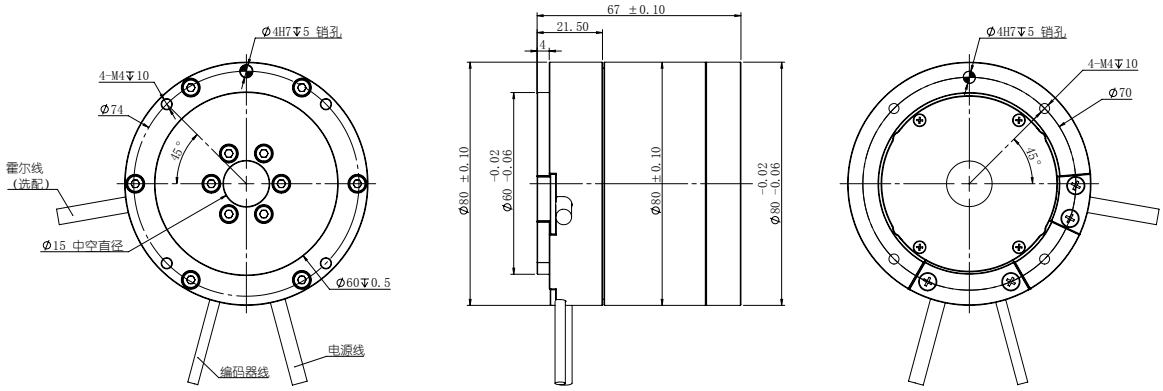
As a new generation of innovative products, torque motors will replace traditional servo and stepper motors in semiconductor, automation, and CNC machine tool industries, becoming important functional components for product optimization and upgrading.

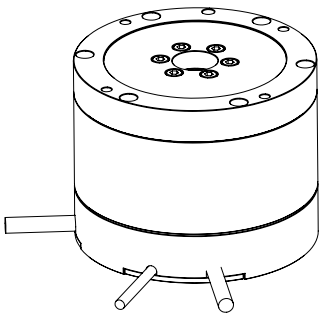
Parameter	DDR Motor	Servo Motor	Stepper Motor
Precision	High	Medium	Low
Torque	High	Medium	Low
Dynamic performance	Good	Average	Low
Speed	Low	High	Low
Reliability	High	Average	Average
Cost	High	Average	Low
Precision maintain	Good	Medium	Medium

Application and performance analysis

Industry	Performance		
	Precision+Volume+Maintenance	Speed	Rigid
testing equipment	√	√	
Industrial robots	√		
Semiconductor equipment	√	√	√
Transportation/processing		√	
Precision turntable	√	√	√
CNC machine tools	√	√	√

DD80-67



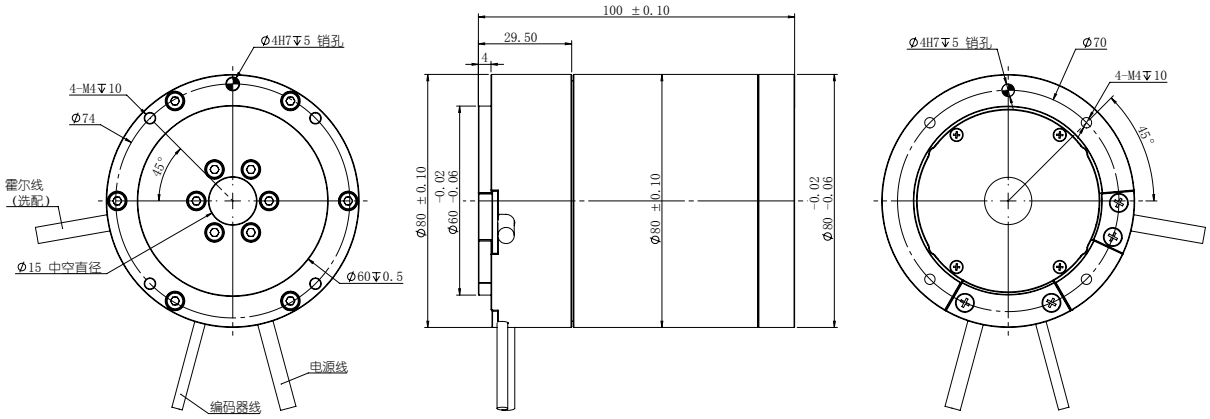


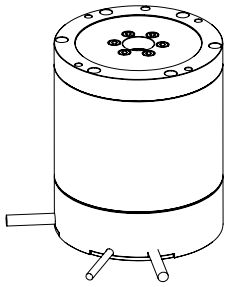
Parameter

Parameters	Unit	DD80-67
Continuous torque	Nm	1.1
Max torque	Nm	3.2
Rated speed	Rpm	300
Max speed	Rpm	300
Continuous current	Arms	2
Max current	Arms	6
Thrust constant	Nm/Arms	0.55
Inverse EMF constant	Vrms/1000rpm	38.6
Interphase resistance (25℃)	Ω	4.2
Interphase inductance (25℃)	mH	4.8
Pole number		22
Moment of inertia	Kg·m2	0.00082
Encoder resolution	ppr	1800000
Absolute positioning accuracy	arcsec	±15
Repeatable positioning accuracy	arcsec	±2
Axial load	N	1200
Radial load	Nm	10
Axial runout	um	5 (optional)
Radial runout	um	5 (optional)
Motor weight	Kg	1.6

* The back EMF is measured between any two wires when the motor is running at a constant speed.

DD80-100



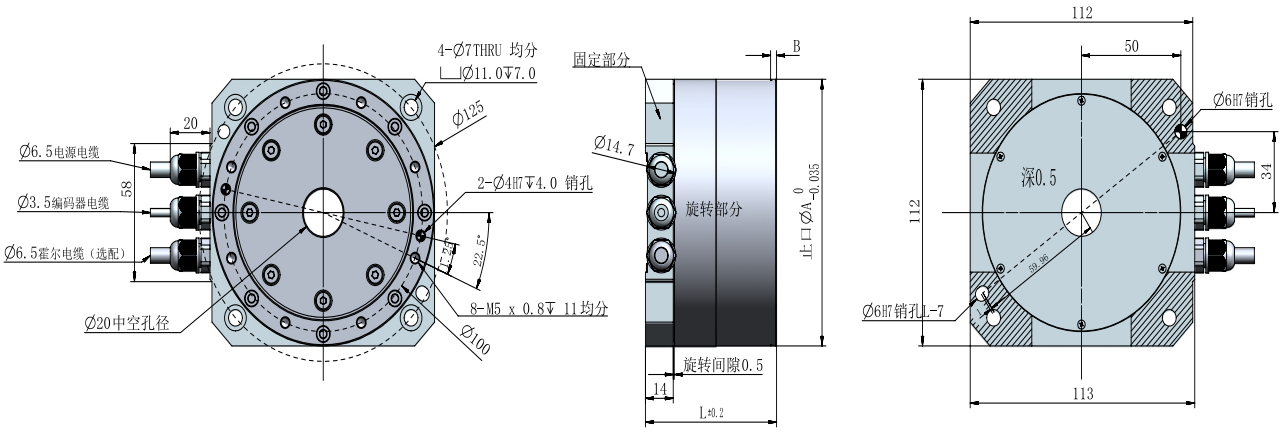


Parameter

Parameters	Unit	DD80-100
Continuous torque	Nm	2.3
Max torque	Nm	6.8
Rated speed	Rpm	300
Max speed	Rpm	300
Continuous current	Arms	2
Max current	Arms	6
Thrust constant	Nm/Arms	1.1
Inverse EMF constant	Vrms/1000rpm	85.7
Interphase resistance (25℃)	Ω	8.5
Interphase inductance (25℃)	mH	10
Pole number		22
Moment of inertia	Kg·m2	0.0014
Encoder resolution	ppr	1800000
Absolute positioning accuracy	arcsec	±15
Repeatable positioning accuracy	arcsec	±2
Mechanical properties		
Axial load	N	1200
Radial load	Nm	10
Axial runout	um	5（可选）
Radial runout	um	5（可选）
Motor weight	Kg	2.5
* The back EMF is measured between any two wires when the motor is running at a constant speed.		

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DD110-65



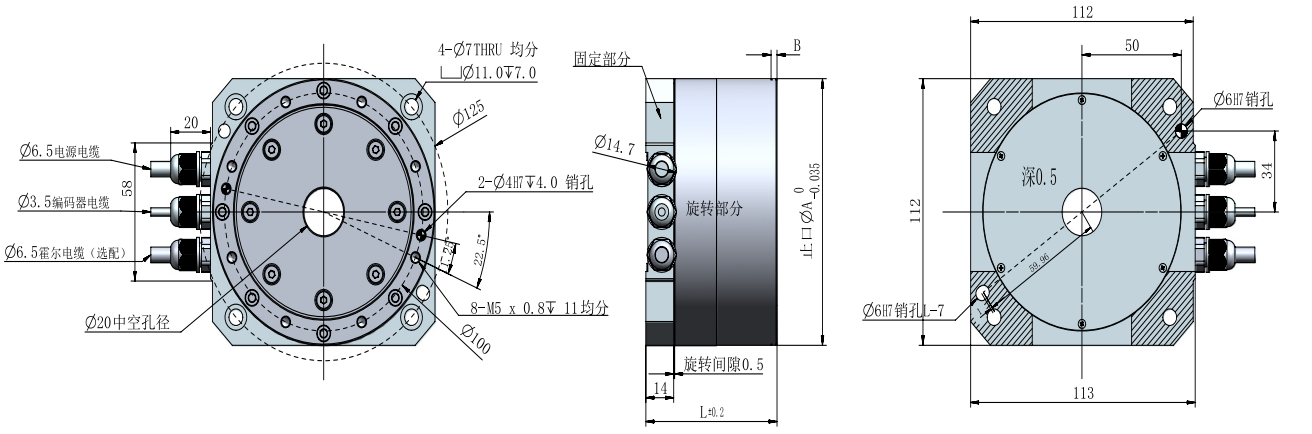
电机型号	尺寸变化		
	L	A	B
DD110-65	66	112	\
DD110-65-P	66	111.8	3
DD110-85	86	112	\
DD110-85-P	86	111.8	3

Parameter

Parameters	Unit	DD110-65
Continuous torque	Nm	3
Max torque	Nm	9
Rated speed	Rpm	200
Max speed	Rpm	300
Continuous current	Arms	1.6
Max current	Arms	4.8
Thrust constant	Nm/Arms	1.87
Inverse EMF constant	Vrms/1000rpm	105
Interphase resistance (25℃)	Ω	10
Interphase inductance (25℃)	mH	9.5
Pole number		22
Moment of inertia	Kg·m2	0.0026
Encoder resolution	ppr	1800000
Absolute positioning accuracy	arcsec	±15
Repeatable positioning accuracy	arcsec	±2
Mechanical properties		
Axial load	N	9000
Radial load	Nm	50
Axial runout	um	5/3
Radial runout	um	5/3
Motor weight	Kg	3
* The back EMF is measured between any two wires when the motor is running at a constant speed.		

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DD110-85



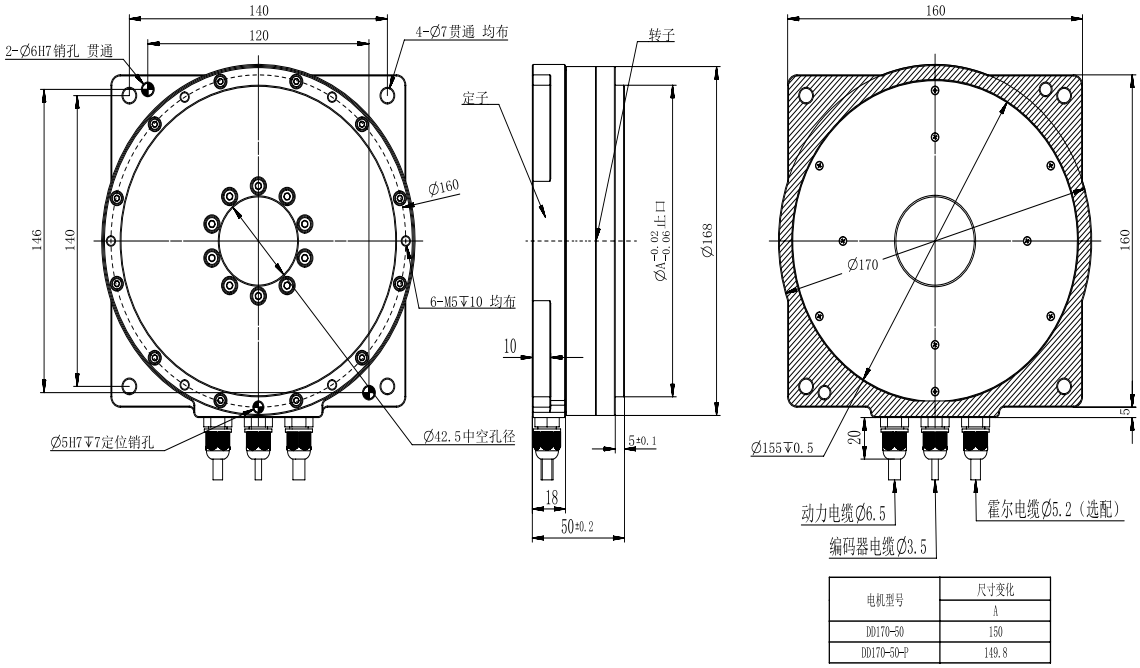
电机型号	尺寸变化		
	L	A	B
DD110-65	66	112	\
DD110-65-P	66	111.8	3
DD110-85	86	112	\
DD110-85-P	86	111.8	3

Parameter

Parameters	Unit	DD110-85
Continuous torque	Nm	6
Max torque	Nm	18
Rated speed	Rpm	200
Max speed	Rpm	300
Continuous current	Arms	1.6
Max current	Arms	4.8
Thrust constant	Nm/Arms	3.74
Inverse EMF constant	Vrms/1000rpm	213
Interphase resistance (25℃)	Ω	17.7
Interphase inductance (25℃)	mH	18.4
Pole number		22
Moment of inertia	Kg·m2	0.0042
Encoder resolution	ppr	1800000
Absolute positioning accuracy	arcsec	±15
Repeatable positioning accuracy	arcsec	±2
Mechanical properties		
Axial load	N	9000
Radial load	Nm	50
Axial runout	um	5/3
Radial runout	um	5/3
Motor weight	Kg	4.5
* The back EMF is measured between any two wires when the motor is running at a constant speed.		

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DD170-50



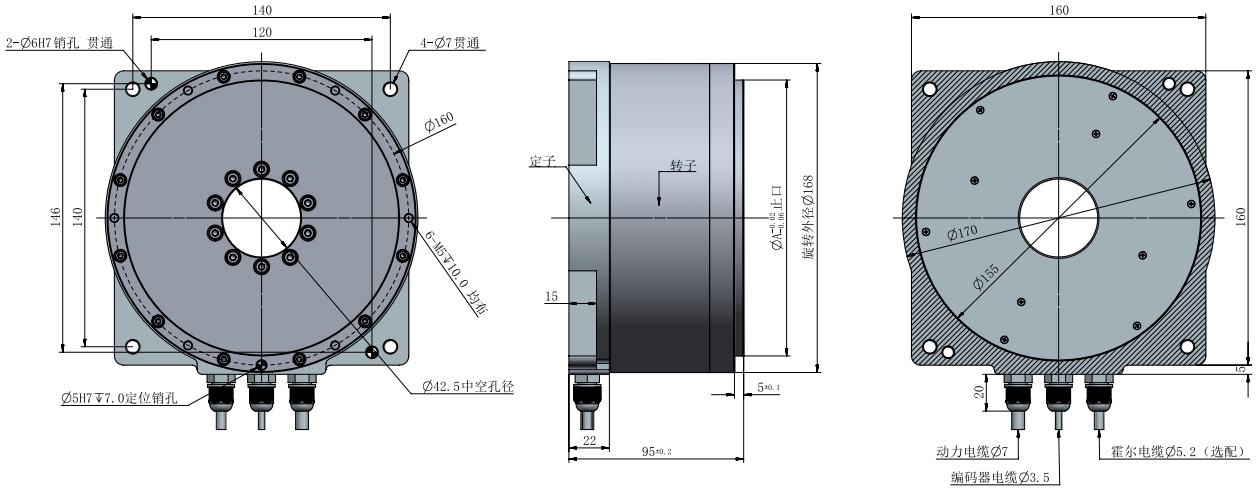
电机型号	尺寸变化
	A
DD170-50	150
DD170-50-P	149.8

Parameter

Parameters	Unit	DD170-50
Continuous torque	Nm	5
Max torque	Nm	14
Rated speed	Rpm	150
Max speed	Rpm	200
Continuous current	Arms	1.4
Max current	Arms	4.2
Thrust constant	Nm/Arms	3.4
Inverse EMF constant	Vrms/1000rpm	184
Interphase resistance (25℃)	Ω	28
Interphase inductance (25℃)	mH	65
Pole number		22
Moment of inertia	Kg·m2	0.0064
Encoder resolution	ppr	3100000
Absolute positioning accuracy	arcsec	±15
Repeatable positioning accuracy	arcsec	±2
Mechanical properties		
Axial load	N	9000
Radial load	Nm	50
Axial runout	um	5/3
Radial runout	um	5/3
Motor weight	Kg	4.1
* The back EMF is measured between any two wires when the motor is running at a constant speed.		

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DD170-95



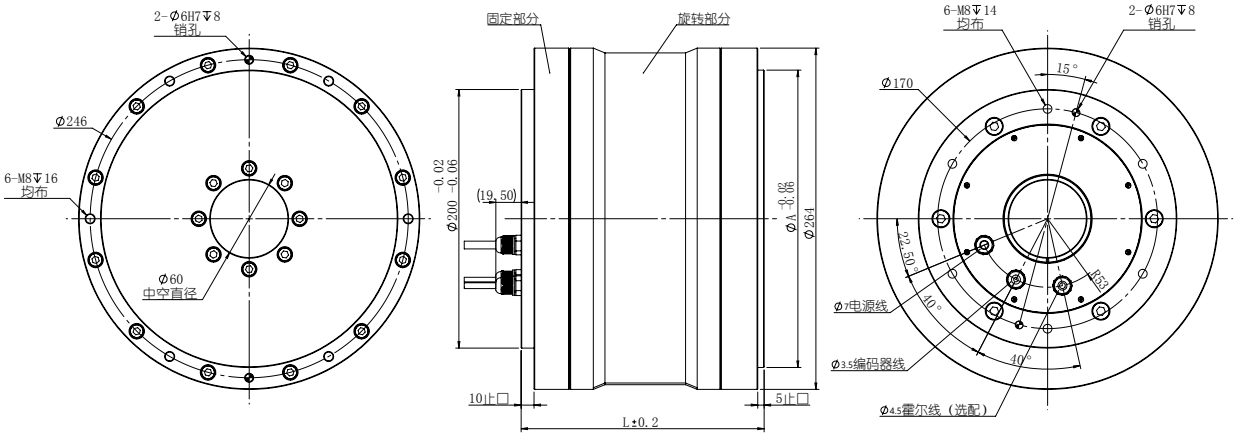
电机型号	尺寸变化
	A
DD170-95	150
DD170-95-P	149.8

Parameter

Parameters	Unit	DD170-95
Continuous torque	Nm	28
Max torque	Nm	109
Rated speed	Rpm	150
Max speed	Rpm	200
Continuous current	Arms	2.8
Max current	Arms	8.4
Thrust constant	Nm/Arms	10
Inverse EMF constant	Vrms/1000rpm	643
Interphase resistance (25℃)	Ω	21.3
Interphase inductance (25℃)	mH	57.1
Pole number		22
Moment of inertia	Kg·m2	0.0167
Encoder resolution	ppr	3100000
Absolute positioning accuracy	arcsec	±15
Repeatable positioning accuracy	arcsec	±2
Mechanical properties		
Axial load	N	9000
Radial load	Nm	50
Axial runout	um	5/3
Radial runout	um	5/3
Motor weight	Kg	8.7
* The back EMF is measured between any two wires when the motor is running at a constant speed.		

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

DD263-138

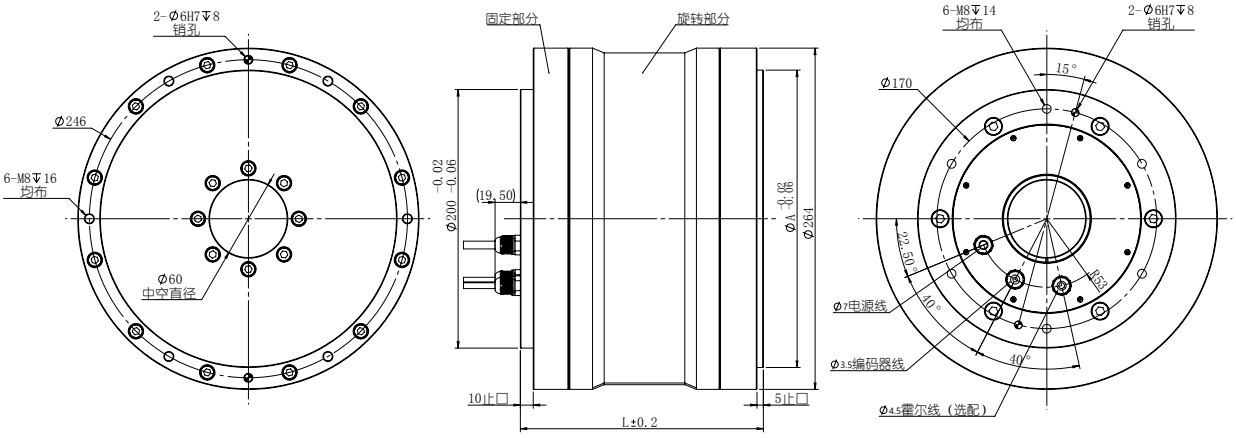


Parameter

Parameters	Unit	DD263-138
Continuous torque	Nm	108
Max torque	Nm	310
Rated speed	Rpm	80
Max speed	Rpm	100
Continuous current	Arms	5.4
Max current	Arms	16.2
Thrust constant	Nm/Arms	20
Inverse EMF constant	Vrms/1000rpm	12
Interphase resistance (25℃)	Ω	8.4
Interphase inductance (25℃)	mH	22.4
Pole number		44
Moment of inertia	Kg·m2	0.1428
Encoder resolution	ppr	4350000
Absolute positioning accuracy	arcsec	±15
Repeatable positioning accuracy	arcsec	±2
Mechanical properties		
Axial load	N	25000
Radial load	Nm	200
Axial runout	um	5/3
Radial runout	um	5/3
Motor weight	Kg	27.5
* The back EMF is measured between any two wires when the motor is running at a constant speed.		

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

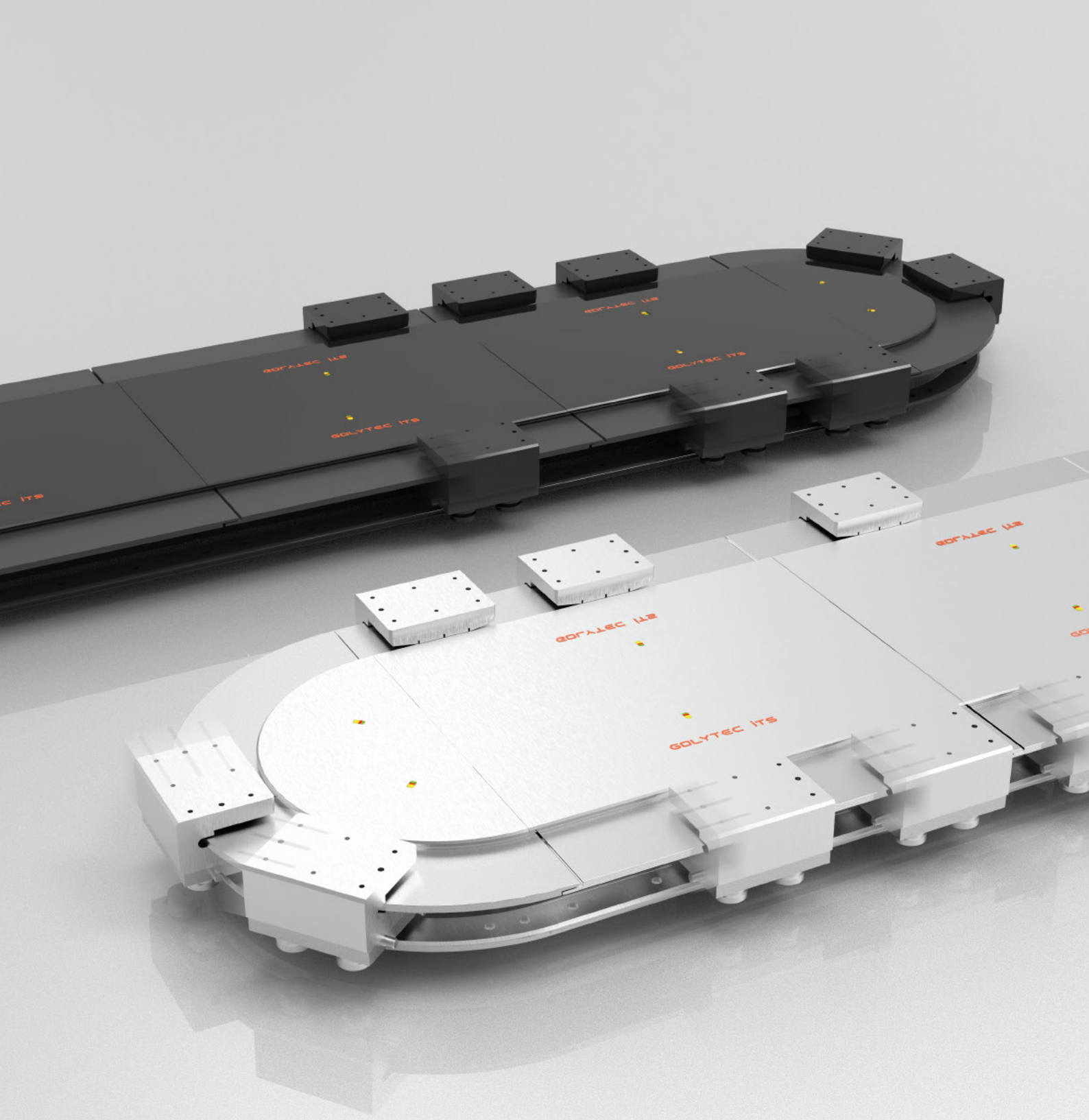
DD263-188



Parameter

Parameters	Unit	DD263-188
Continuous torque	Nm	200
Max torque	Nm	560
Rated speed	Rpm	80
Max speed	Rpm	100
Continuous current	Arms	8
Max current	Arms	24
Thrust constant	Nm/Arms	25
Inverse EMF constant	Vrms/1000rpm	14.1
Interphase resistance (25℃)	Ω	6.3
Interphase inductance (25℃)	mH	24.8
Pole number		44
Moment of inertia	Kg·m2	0.2093
Encoder resolution	ppr	4350000
Absolute positioning accuracy	arcsec	±15
Repeatable positioning accuracy	arcsec	±2
Mechanical properties		
Axial load	N	25000
Radial load	Nm	200
Axial runout	um	5/3
Radial runout	um	5/3
Motor weight	Kg	40
* The back EMF is measured between any two wires when the motor is running at a constant speed.		

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided



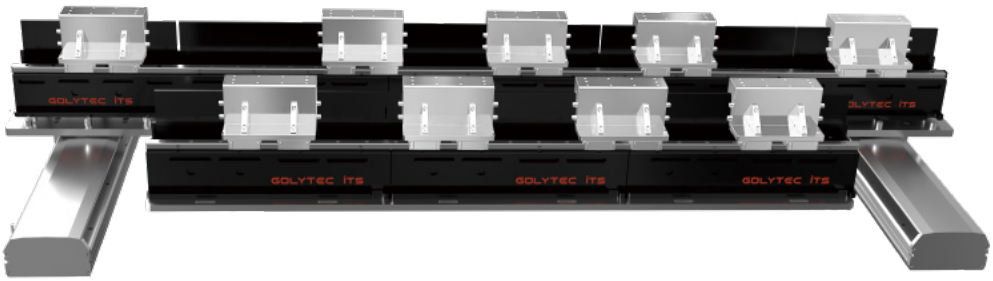
iTS
intelligent Transport Systems

iTS Intelligent Equipment Transfer Line

iTS-L Linear Loop



iTS-LT Linear Transfer

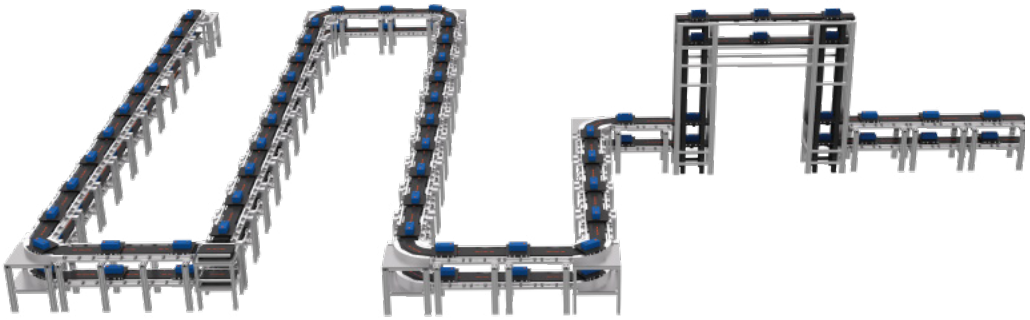


iTS-LTH Heavy-duty Linear Transfer



iWS Intelligent Factory Logistics Line

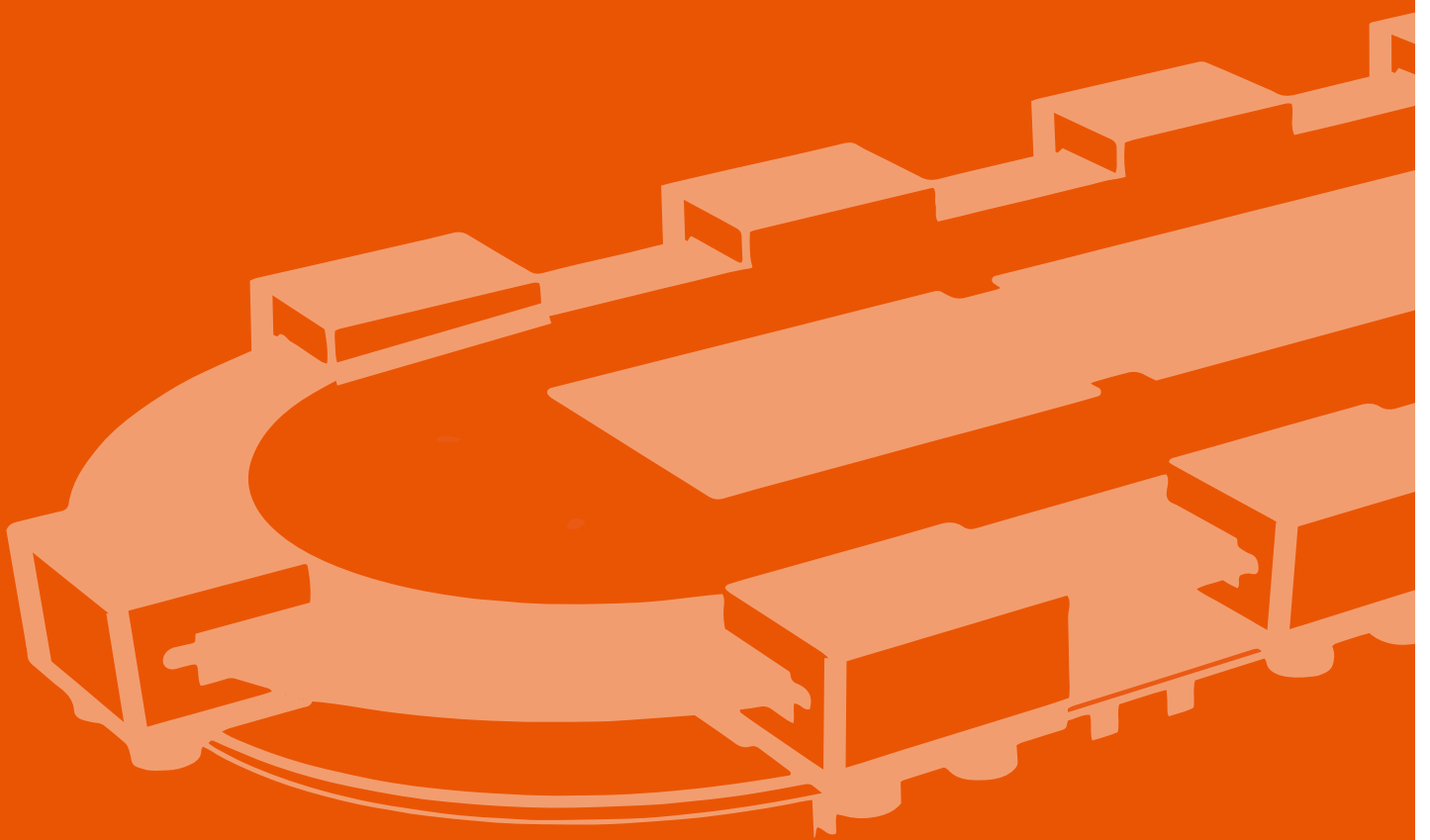
iWS Fabrail Logistics Line



iTS

Intelligent Equipment Transfer Line

iTS-L Linear Loop
iTS-LT Linear Transfer
iTS-LTH Heavy-duty Linear Transfer



iTS -L (iTS Linear Loop)

±0.03mm	2kg-40kg	×5g	5m/s
Repeatability	Payload	Max Acceleration	Max Velocity



Quick changeover production & short cycle times through easy-to-use software receipt.

Modular design easily retrofits into existing systems or integrates into next generation production lines.

Both linear and curved stator modules can control multiple movers simultaneously.

Re-define the number of stations and add or remove any number of stators and movers through software.

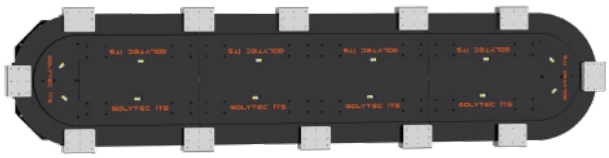
Both linear and curved stators can achieve high-precision positioning.

Easily add workstations at the transfer module without affecting high-speed transportation on the main track.

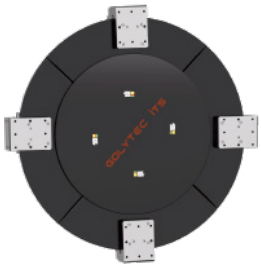
Consistent high precision even at seams in between stators.

iTS -L Configurations

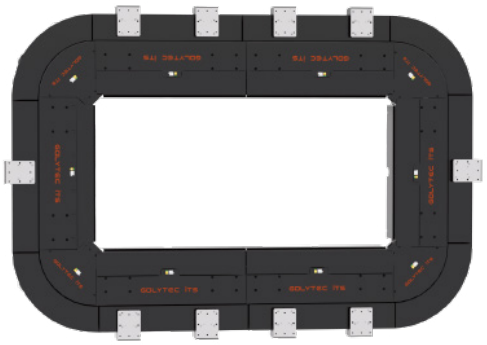
iTS-L



iTS-L Oval Loop System



iTS-L Circular Loop System



iTS-L Rectangular Loop System



iTS-L Diversion Loop System

iTS-L-F



iTS-L-F II Oval Loop System



iTS-L-F II Rectangular Loop System

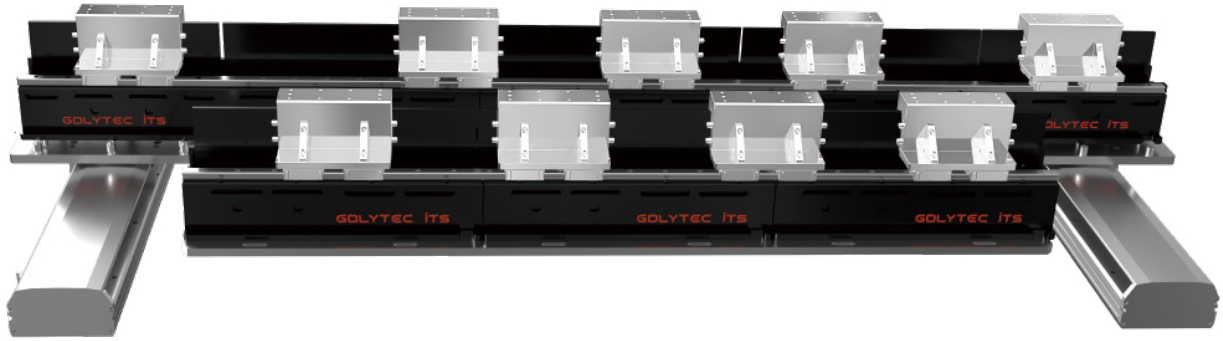
iTS-LT (iTS Linear Transfer)

±0.01mm
Repeatability

2kg-100kg
Payload

×5g
Max Acceleration

5m/s
Max Velocity



Quick changeover production & short cycle times through easy-to-use software receipt.

Backflow sections can be integrated with a synchronous belt to reduce cost.

Easily redefine the number of stations, stators and movers using our software.

The linear transfer structure orientation is designed for horizontal, vertical or rotational transfers.

Easily add workstations at the transfer module without affecting high-speed transportation on the main track.

Linear stator modules can control multiple movers simultaneously.

Linear stator can achieve high-precision positioning.

iTS-LT Configurations



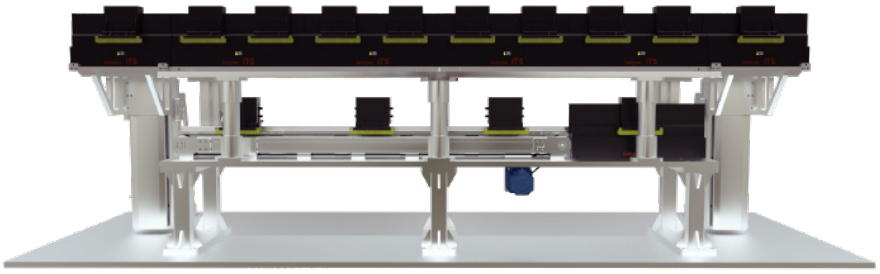
iTS-LT Horizontal System



iTS-LT Horizontal with Synchronous Belt System



iTS-LT Vertical System



iTS-LT Vertical with Synchronous Belt System

iTS-LTH
(iTS Heavy-duty Linear Transfer)

±0.10mm
Repeatability

100kg-5000kg
Payload

×2g
Max Acceleration

3.5m/s
Max Velocity



Quick changeover production & short cycle times through easy-to-use software receipt.

Easily redefine the number of stations, stators and movers using our software.

Linear stator can achieve high-precision positioning.

Linear stator modules can control multiple movers simultaneously.

Backflow sections can be integrated with a synchronous belt to reduce cost.

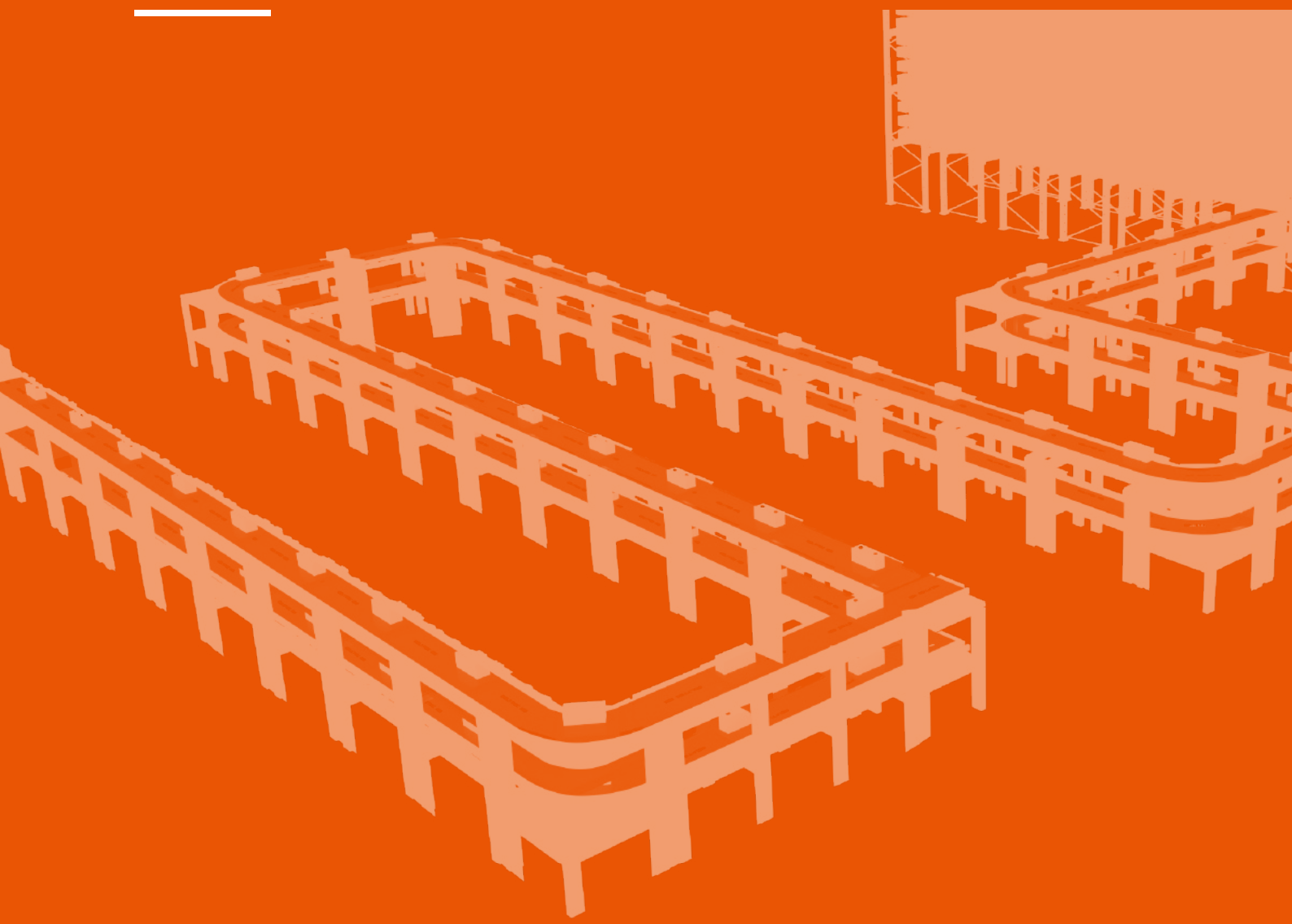
Easily add workstations at the transfer module without affecting high-speed transportation on the main track.

The linear transfer structure orientation is designed for horizontal, vertical or rotational transfers.

iWS

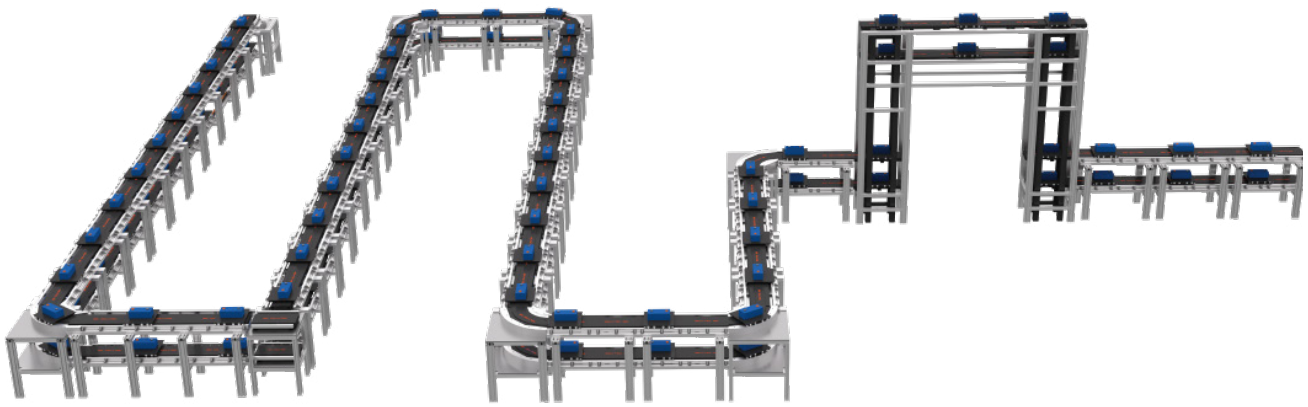
Intelligent Factory Logistics Line

iWS Fabrail Logistics Line



iWS Fabrail Logistics Line

±0.10mm	2kg-500kg	×0.5g	1.5m/s
Repeatability	Payload	Max Acceleration	Max Velocity



Modular design:
short manufacturing cycle, and efficient in installation and maintenance

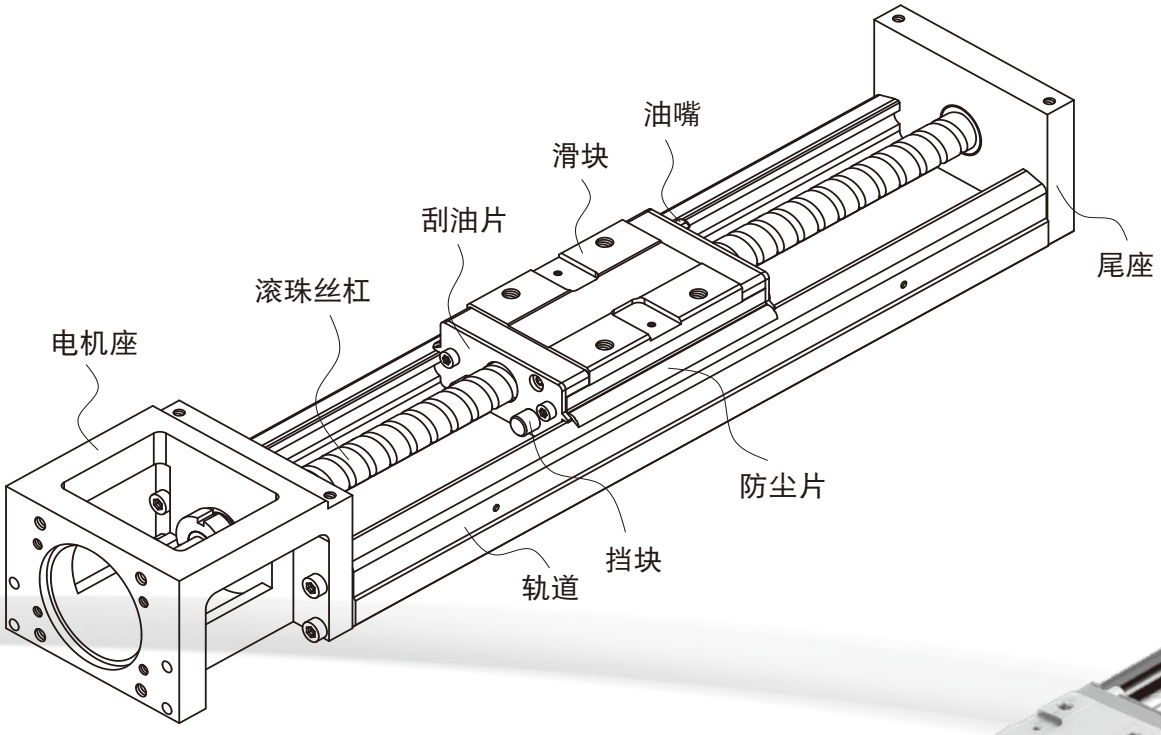
High level of cleanliness:
no cable drag chain, no dust particles, and mechanism free of maintenance

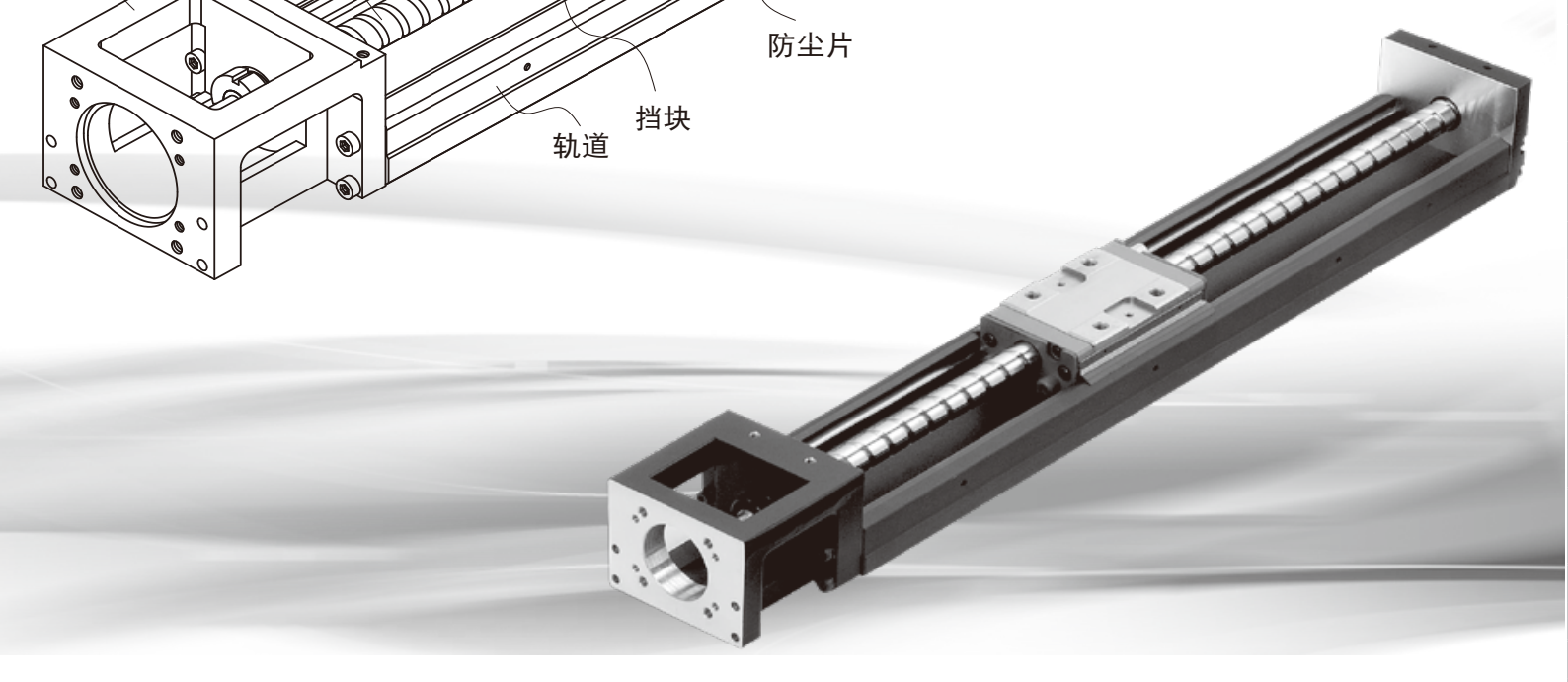
High efficiency:
high precision, high speed and fast acceleration

High flexibility:
each mover trolley is controlled independently, and synchronous or asynchronous control can be achieved at the same time.

05 »»

KK module



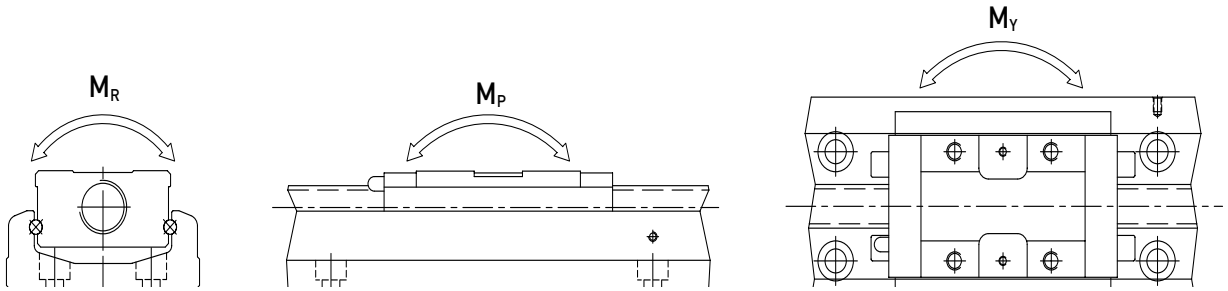


Product Model

KK 60 10 P - 400 A 1 - FO C SO

- KK series
- Dimension(mm): 40, 50, 60D, 86D, 100
- Ball screw lead (mm): KK40 : 1; KK50 : 2; KK60D: 5, 10, 20; KK86D : 10.20; KK100 : 20
- Precision class: P : Precision grade; C : General grade
- Track length (mm) : KK40 : 100, 150, 200; KK50 : 150, 200, 250, 300; KK60D: 150, 200, 300, 400, 500, 600; KK86D: 340, 440, 540, 640, 740, 940; KK100 : 980,1080,1180,1280,1380
- Slide type: A : Standard type
- Slide type: 1
- Motor connection flange: Refer to pages 83-87; FE: Special processing
- C: Aluminum cover; No mark: No cover
- Limit switch included: Refer to page 86; S0: Extreme track+sensor/slider sensor+photoelectric bracket; S2: PM-Y45; No mark: No

※ Load specification



Model		Ball screw				Linear guideway															
		Screw diameter (mm)	Lead (mm)	Basic dynamicrated load (N)	Basic staticrated load (N)	Basic dynamicrated load (N)		Basic static-rated load (N)		Permissible static torque											
										Pitch Mp(N-m)				Yaw MY(N-m)				Roll MR(N-m)			
						Slide A	Slide S	Slide A	SlideS	SlideA1	SlideA2	SlideS1	SlideS2	SlideA1	SlideA2	SlideS1	SlideS2	SlideA1	SlideA2	SlideS1	SlideS2
KK4001	Precision	8	1	735	1538	3920	-	6468	-	33	182	-	-	33	182	-	-	81	162	-	-
	General			676	1284																
KK5002	Precision	8	2	2136	3489	8007	-	12916	-	116	545	-	-	116	545	-	-	222	444	-	-
	General			1813	2910																
KK6005	Precision	12	5	3744	6243	13230	7173	21462	11574	152	760	72	367	152	760	72	367	419	838	241	482
	General			3377	5625																
KK6010	Precision	12	10	2410	3743	13230	7173	21462	11574	152	760	72	367	152	760	72	367	419	838	241	482
	General			2107	3234																
KK8610	Precision	15	10	7144	12642	31458	21051	50764	29475	622	3050	228	1309	622	3050	228	1309	1507	3014	847	1694
	General			6429	11387																
KK8620	Precision	15	20	4645	7655	31458	21051	50764	29475	622	3050	228	1309	622	3050	228	1309	1507	3014	847	1694
	General			4175	6889																
KK10020	Precision	20	20	7046	12544	39200	-	63406	-	960	4763	-	-	960	4763	-	-	2205	4410	-	-
	General			4782	9163																

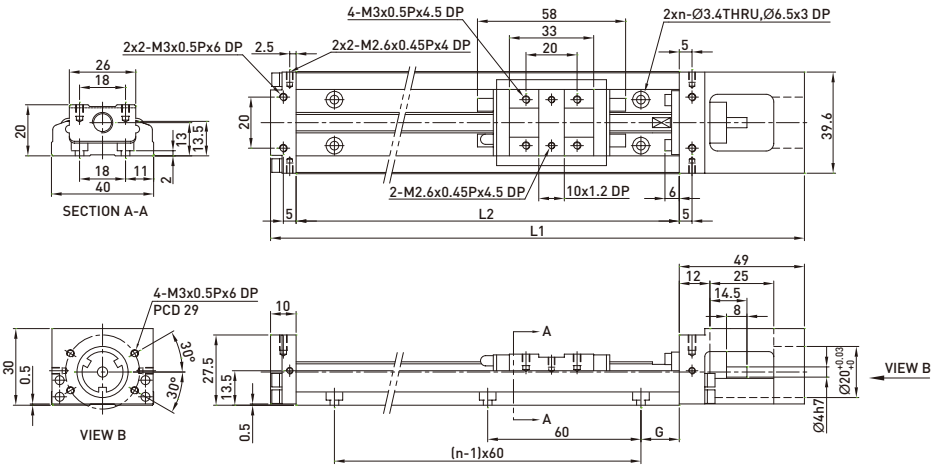
※Precision class

Model	Track length	Positioning reproducibility		Positioning accuracy		Walking parallelism		Maximum starting torque (N-cm)	
		Precision	General	Precision	General	Precision	General	Precision	General
KK40	100	±0.003	±0.01	0.020	-	0.010	-	1.2	0.8
	150								
	200								
KK50	150	±0.003	±0.01	0.020	-	0.010	-	4	2
	200								
	250								
	300								
KK60	150	±0.003	±0.01	0.020	-	0.010	-	15	7
	200								
	300								
	400								
	500	±0.003	±0.01	0.025	-	0.015	-	15	7
	600								
KK86	340	±0.003	±0.01	0.025	-	0.015	-	15	10
	440								
	540								
	640								
	740	±0.003	±0.01	0.030	-	0.020	-	17	10
	940	±0.003	±0.01	0.040	-	0.030	-	25	10
KK100	980	±0.005	±0.01	0.035	-	0.025	-	17	12
	1080								
	1180	±0.005	±0.01	0.040	-	0.03	-	20	12
	1280	±0.005	±0.01	0.045	-	0.035	-	23	15
	1380			0.05		0.04		25	

※Max speed

Model	Ball screw lead (mm)	Track length (mm)	Speed (mm/sec)	
			Precision grade	General grade
KK40	01	100	190	190
		150	190	190
		200	190	190
KK50	02	150	270	270
		200	270	270
		250	270	270
		300	270	270
KK60	05	150	550	390
		200	550	390
		300	550	390
		400	550	390
		500	550	390
		600	340	340
	10	150	1100	790
		200	1100	790
		300	1100	790
		400	1100	790
		500	1100	790
		600	670	670
KK86	10	340	740	520
		440	740	520
		540	740	520
		640	740	520
		740	740	520
		940	610	430
	20	340	1480	1050
		440	1480	1050
		540	1480	1050
		640	1480	1050
		740	1480	1050
		940	1220	870
KK100	20	980	1120	800
		1080	980	800
		1180	750	750
		1280	630	630
		1380	530	530

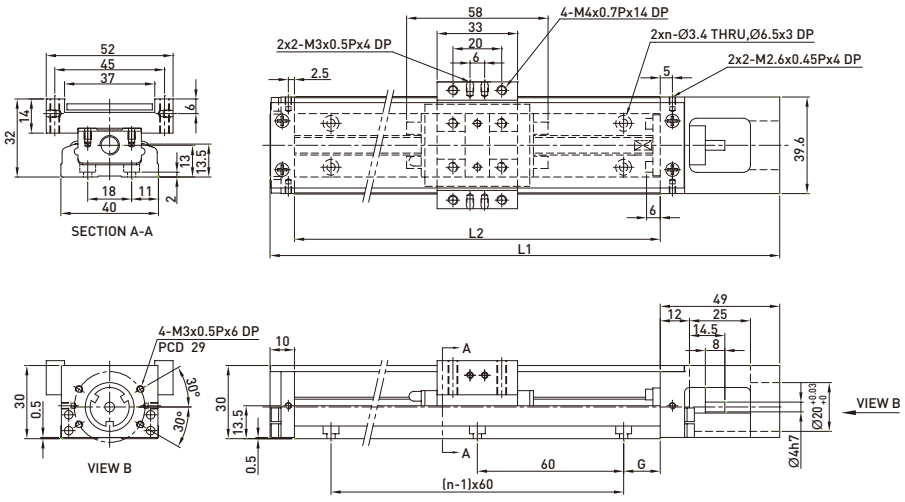
KK40 without cover



Unit:mm

Track length L2 (mm)	Overall length L1 (mm)	Max stroke (mm)		G (mm)	N	Weight (kg)	
		A1 slide	A2 slide			A1 slide	A2 slide
100	159	36	-	20	2	0.48	-
150	209	86	34	15	3	0.6	0.67
200	259	136	84	40	3	0.72	0.79

KK40 with cover

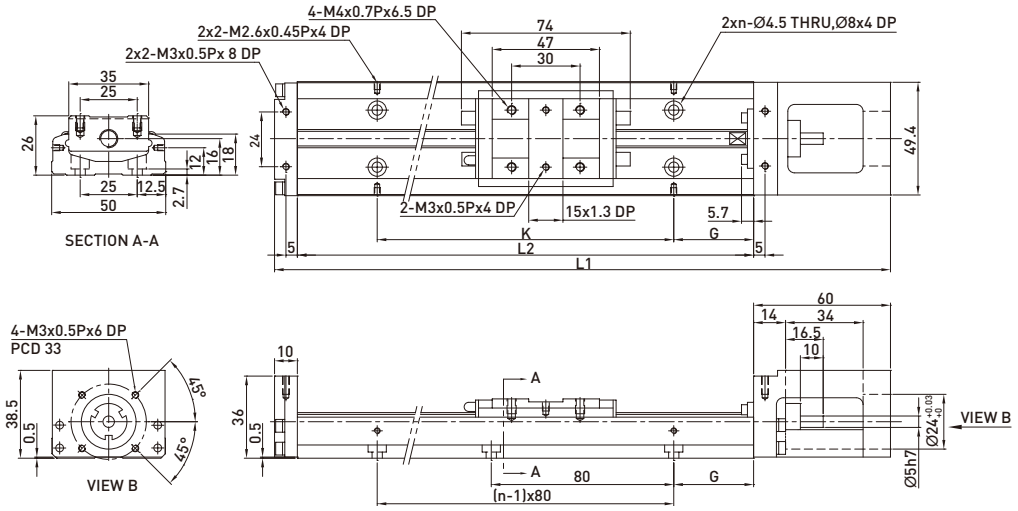


Unit:mm

Track length L2 (mm)	Overall length L1 (mm)	Max stroke (mm)		G (mm)	N	Weight (kg)	
		A1 slide	A2 slide			A1 slide	A2 slide
100	159	36	-	20	2	0.55	-
150	209	86	34	15	3	0.68	0.76
200	259	136	84	40	3	0.82	0.89

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

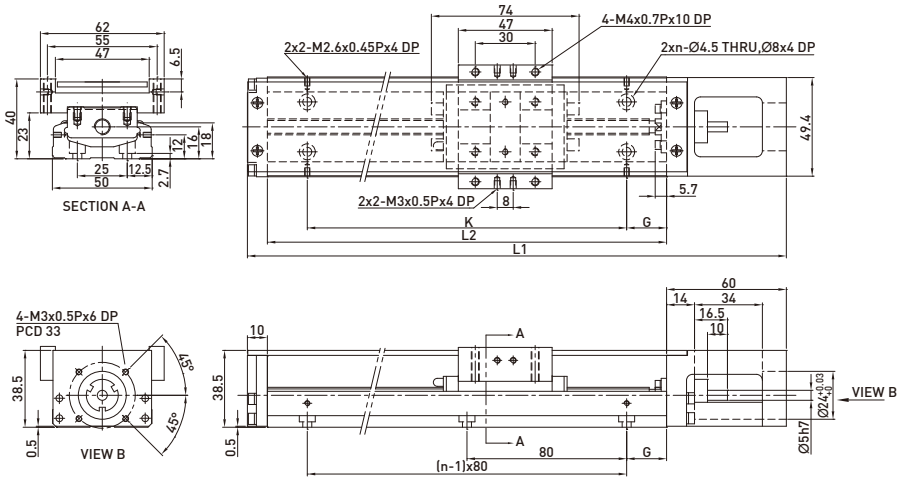
KK50 without cove



Unit:mm

Track length L2 (mm)	Overall length L1 (mm)	Max stroke (mm)		G (mm)	k(mm)	N	Weight (kg)	
		A1slide	A2 slide				A1 slide	A2 slide
150	220	70	-	35	80	2	1	-
200	270	120	55	20	160	3	1.2	1.4
250	320	170	105	45	160	3	1.4	1.6
300	370	220	155	30	240	4	1.6	1.8

KK40 with cover

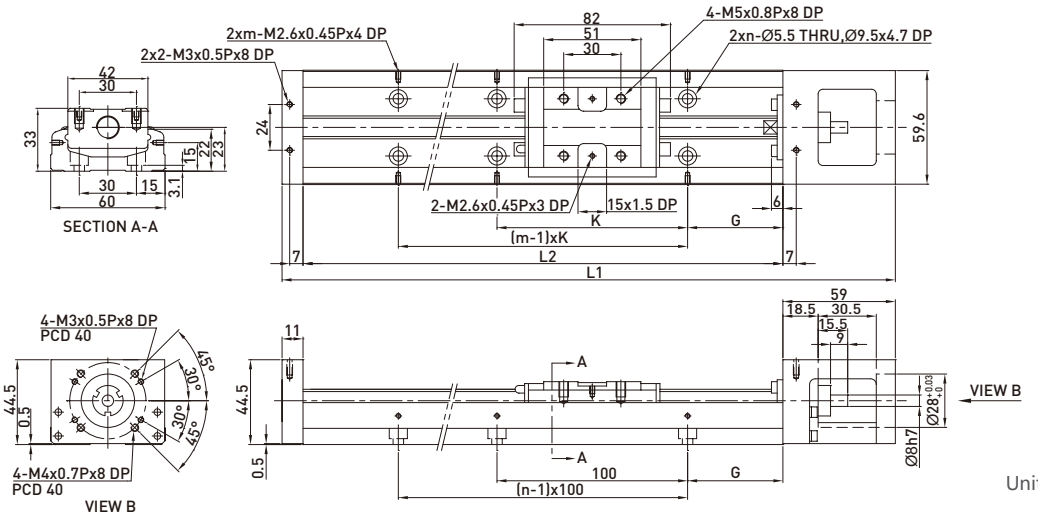


Unit:mm

Track length L2 (mm)	Overall length L1 (mm)	Max stroke (mm)		G (mm)	k(mm)	N	Weight (kg)	
		A1slide	A2 slide				A1 slide	A2 slide
150	220	70	-	35	80	2	1.1	-
200	270	120	55	20	160	3	1.3	1.5
250	320	170	105	45	160	3	1.6	1.8
300	370	220	155	30	240	4	1.8	2.0

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

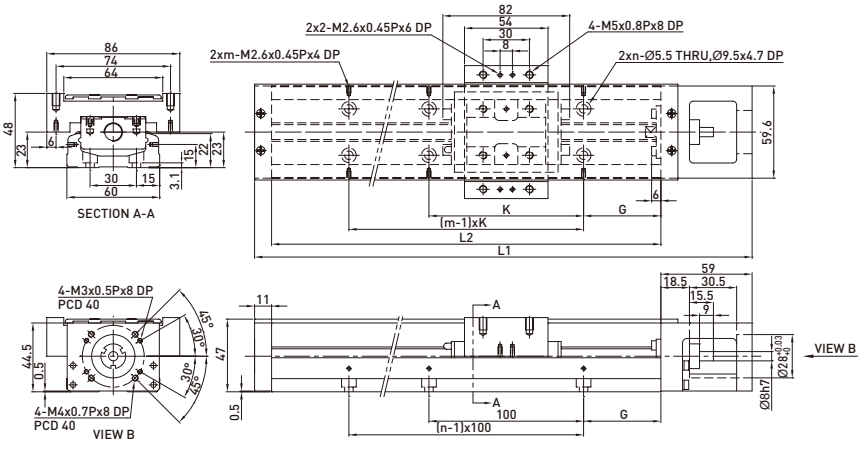
KK60D without cover



Unit:mm

Track length L2 (mm)	Overall length L1 (mm)	Max stroke (mm)		G (mm)	k(mm)	N	M	Weight (kg)	
		A1 slide	A2 slide					A1 slide	A2 slide
150	220	60	-	25	100	2	2	1.5	-
200	270	110	-	50	100	2	2	1.8	-
300	370	210	135	50	200	3	2	2.4	2.7
400	470	310	235	50	100	4	4	3	3.3
500	570	410	335	50	200	5	3	3.6	3.9
600	670	510	435	50	100	6	6	4.2	4.6

KK60D with cover

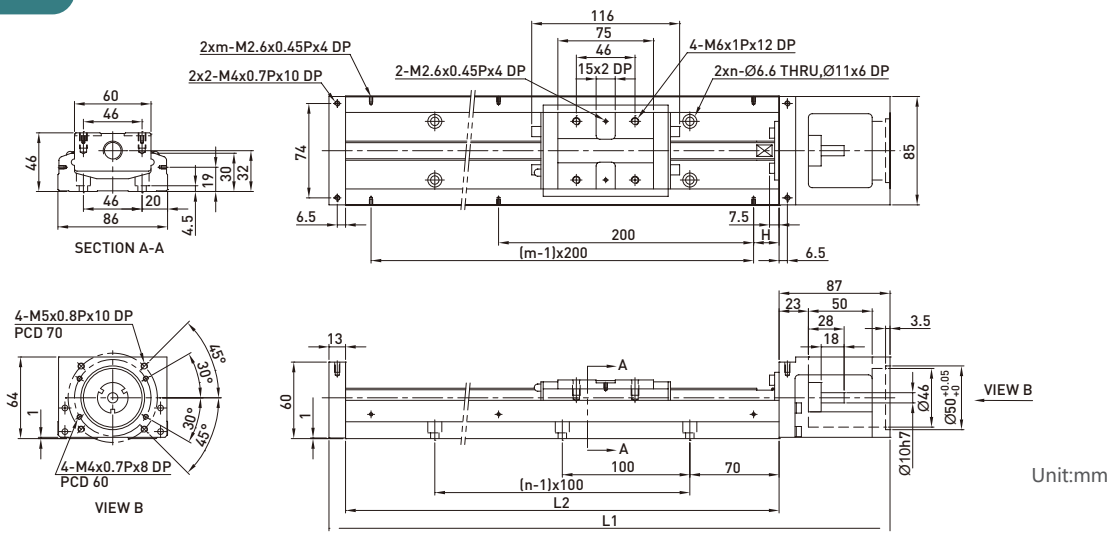


Unit:mm

Track length L2 (mm)	Overall length L1 (mm)	Max stroke (mm)		G (mm)	k(mm)	N	M	Weight (kg)	
		A1 slide	A2 slide					A1 slide	A2 slide
150	220	60	-	25	100	2	2	1.7	-
200	270	110	-	50	100	2	2	2.1	-
300	370	210	135	50	200	3	2	2.7	3.0
400	470	310	235	50	100	4	4	3.3	3.6
500	570	410	335	50	200	5	3	3.9	4.2
600	670	510	435	50	100	6	6	4.6	5.0

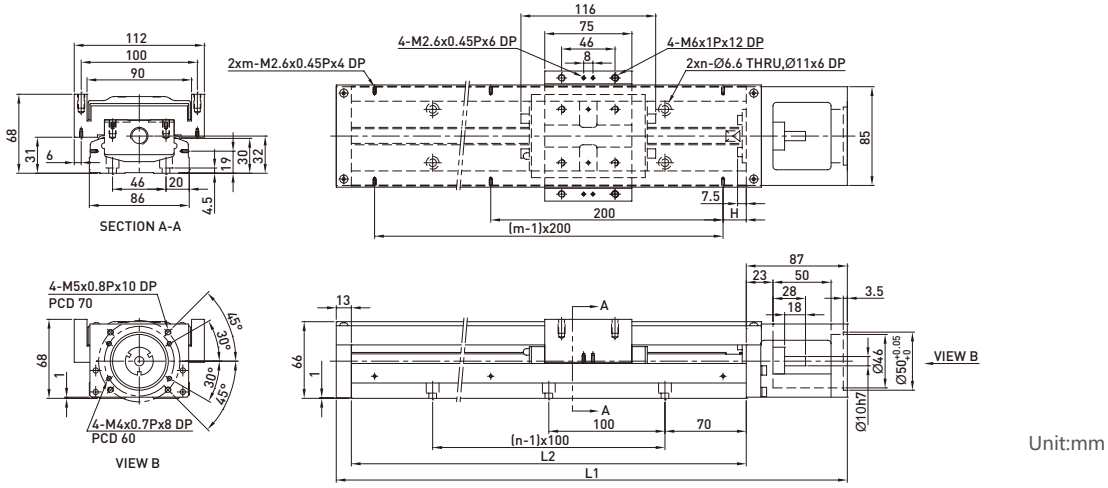
This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

KK86D without cover



Track length L2 (mm)	Overall length L1 (mm)	Max stroke (mm)		H (mm)	N	M	Weight (kg)	
		A1 slide	A2 slide				A1 slide	A2 slide
340	440	216.5	108.5	70	3	2	5.7	6.5
440	540	316.5	208.5	20	4	3	6.9	7.7
540	640	416.5	308.5	70	5	3	8.0	8.8
640	740	516.5	408.5	20	6	4	9.2	10.0
740	840	616.5	508.5	70	7	4	10.4	11.2
940	1040	816.5	708.5	70	9	5	11.6	12.4

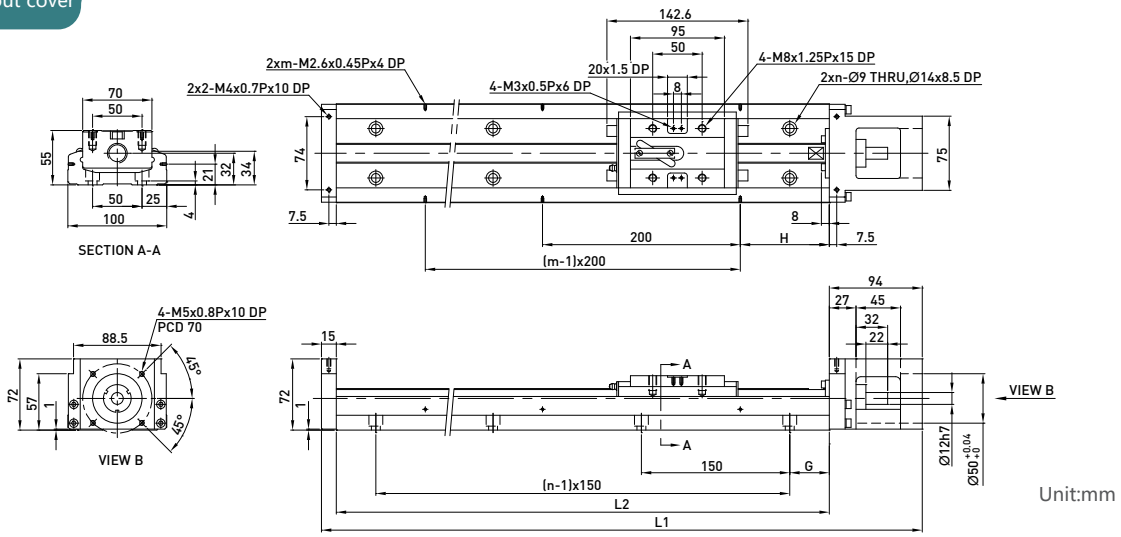
KK86D with cover



Track length L2 (mm)	Overall length L1 (mm)	Max stroke (mm)		H (mm)	N	M	Weight (kg)	
		A1 slide	A2 slide				A1 slide	A2 slide
340	440	216.5	108.5	70	3	2	6.5	7.3
440	540	316.5	208.5	20	4	3	7.8	8.6
540	640	416.5	308.5	70	5	3	9.0	9.8
640	740	516.5	408.5	20	6	4	10.3	11.3
740	840	616.5	508.5	70	7	4	11.6	12.4
940	1040	816.5	708.5	70	9	5	13.0	13.8

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

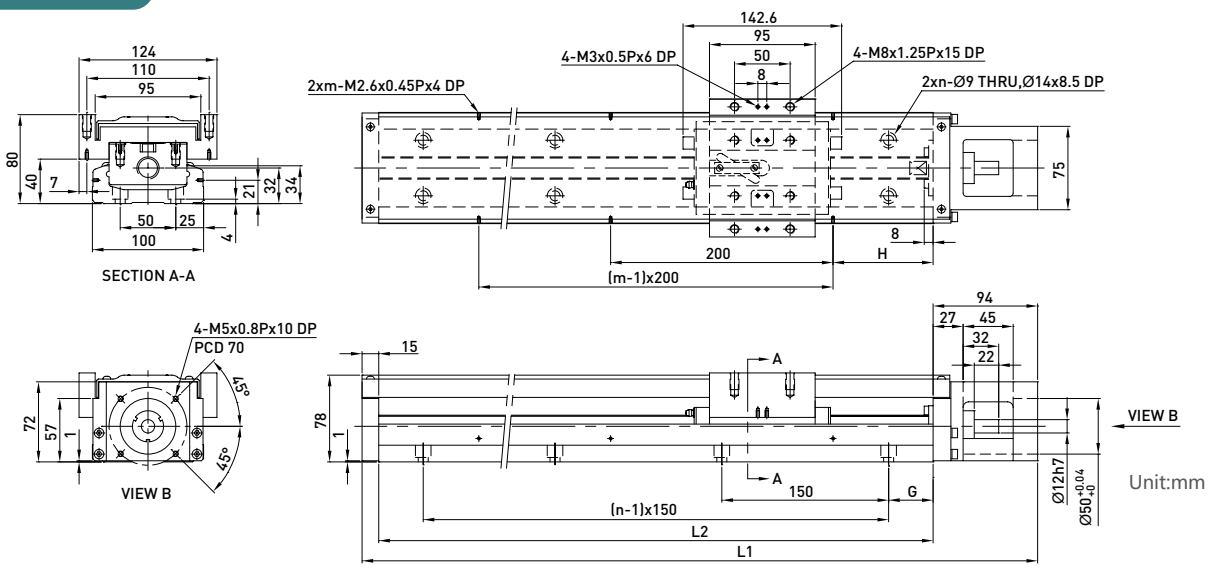
KK100 without cover



Unit:mm

Track length L2 (mm)	Overall length L1 (mm)	Max stroke (mm)		G (mm)	k(mm)	N	M	Weight (kg)	
		A1 slide	A2 slide					A1 slide	A2 slide
980	1089	828	700	40	90	7	5	18.6	20.3
1080	1189	928	800	15	40	8	6	20.3	22.0
1180	1289	1028	900	65	90	8	6	22.0	23.7
1280	1389	1128	1000	40	40	9	7	23.6	25.3
1380	1489	1228	1100	15	90	10	7	25.3	27.0

KK100 with cover



Unit:mm

Track length L2 (mm)	Overall length L1 (mm)	Max stroke (mm)		G (mm)	k(mm)	N	M	Weight (kg)	
		A1 slide	A2 slide					A1 slide	A2 slide
980	1089	828	700	40	90	7	5	20.4	22.1
1080	1189	928	800	15	40	8	6	22.2	23.9
1180	1289	1028	900	65	90	8	6	24.0	25.7
1280	1389	1128	1000	40	40	9	7	25.7	27.4
1380	1489	1228	1100	15	90	10	7	27.5	29.2

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

The motor seat and motor connected flange

Mitsubishi servo motor

Output power	Motor	Weight (kg)	Applicable flange					brake (kg)	Driver	Weight (kg)	Remark
			kk40	KK50	KK60D	KK86D	KK100				
50W	HF-KP053	0.35	F1	F1	F1	F2	-	0.75	MR-J3S-10A	0.8	220V
100W	HF-KP13	0.56	F1	F1	F1	F2	-	0.89	MR-J3S-10A	0.8	220V
200W	HF-KP23	0.94	-	-	-	F0	F0	1.6	MR-J3S-20A	0.8	220V
400W	HF-KP43	1.5	-	-	-	F0	F0	2.1	MR-J3S-40A	1	220V
750W	HF-KP73	2.9	-	-	-	-	F1	4	MR-J3S-70A	1.4	220V

Panasonic servo motor

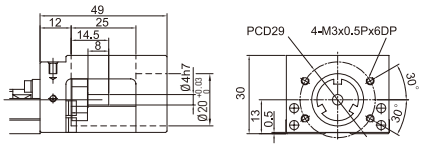
Output power	Motor	Weight (kg)	Applicable flange					brake (kg)	Driver	Weight (kg)	Remark
			kk40	KK50	KK60D	KK86D	KK100				
50W	MSMD5AZP1	0.32	F2	F2	F2	F3	-	0.53	MADDT1105	0.8	110V
50W	MSMD5AZP1	0.32	F2	F2	F2	F3	-	0.53	MADDT1205	0.8	220V
100W	MSMD011P1	0.47	F2	F2	F2	F3	-	0.68	MADDT1107	0.8	110V
100W	MSMD012P1	0.47	F2	F2	F2	F3	-	0.68	MADDT1205	0.8	220V
200W	MSMD021P1	0.82	-	-	-	F1	-	1.3	MADDT2110	1.1	110V
200W	MSMD022P1	0.82	-	-	-	F1	-	1.3	MADDT1207	0.8	220V
400W	MSMD041P1	1.2	-	-	-	F1	-	1.7	MADDT3120	1.5	110V
400W	MSMD042P1	1.2	-	-	-	F1	-	1.7	MADDT2210	1.1	220V
750W	MSMD082S1	2.3	-	-	-	F4	F2	3.1	MADDT3520	1.5	220V

Yaskawa servo motor

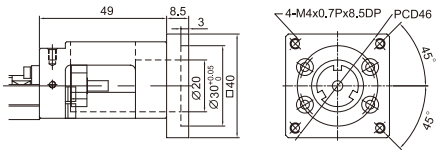
Output power	Motor	Weight (kg)	Applicable flange					brake (kg)	Driver	Weight (kg)	Remark
			kk40	KK50	KK60D	KK86D	KK100				
50W	SGMAV-A5ADA61	0.3	F1	F1	F1	F2	-	-	SGDV-R70A01A	0.9	Keys
50W	SGMAV-A5ADA2C	0.3	F1	F1	F1	F2	-	-	SGDV-R70A01A	0.9	No keys
50W	SGMAV-A5ADA21	0.3	F1	F1	F1	F2	-	0.75	SGDV-R70A01A	0.9	Medium inertia
100W	SGMAV-01ADA64	0.4	F1	F1	F1	F2	-	0.89	SGDV-R90A01A	0.9	
200W	SGMAV-02ADA65	0.9	-	-	-	F0	F0	1.6	SGDV-1R6A01A	0.9	
400W	SGMAV-04ADA66	1.2	-	-	-	F0	F0	2.1	SGDV-2R8A01A	1	
750W	SGMAV-08ADA67	2.6	-	-	-		F1	4	SGDV-5R5A01A	1.5	

KK40

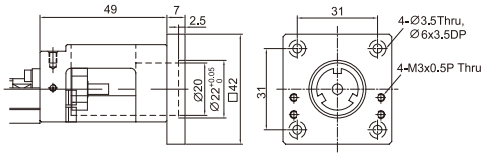
电机座 F0



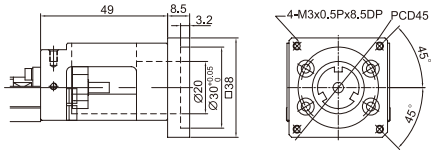
电机连接法兰 F1



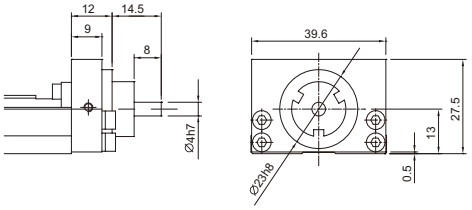
电机连接法兰 F3



电机连接法兰 F2

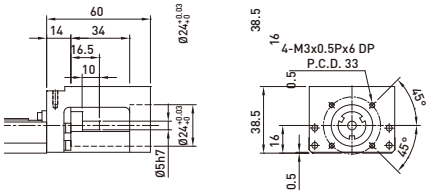


转接固定座 H0

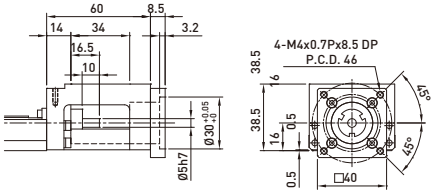


KK50

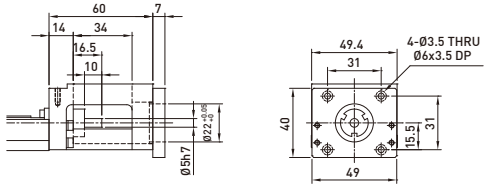
电机座 F0



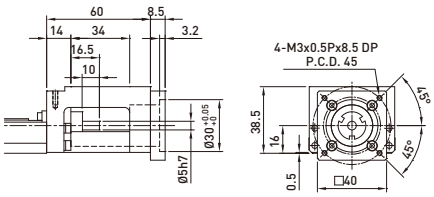
电机连接法兰 F1



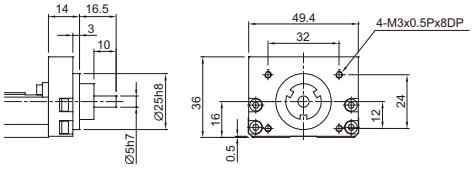
电机连接法兰 F3



电机连接法兰 F2

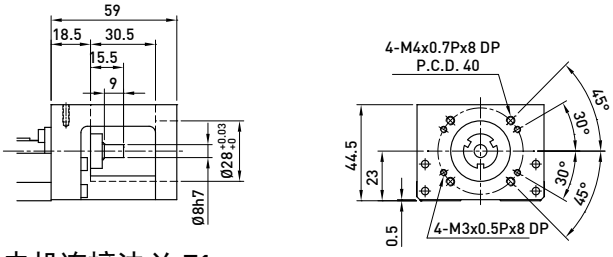


转接固定座 H0

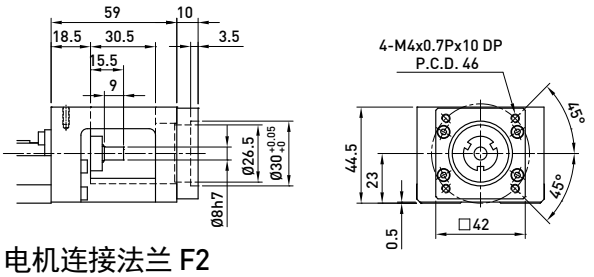


KK60D

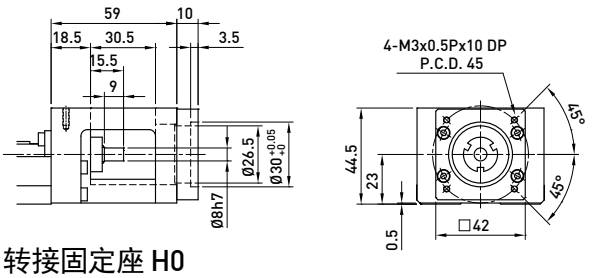
电机座 F0



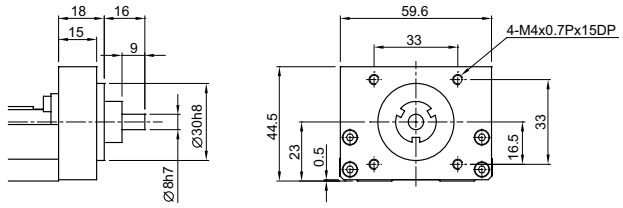
电机连接法兰 F1



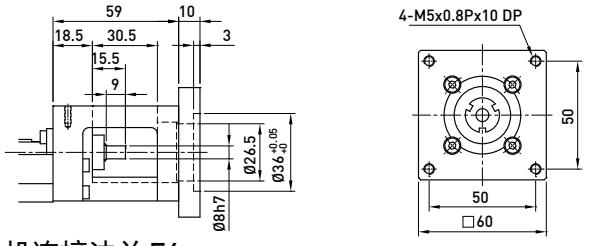
电机连接法兰 F2



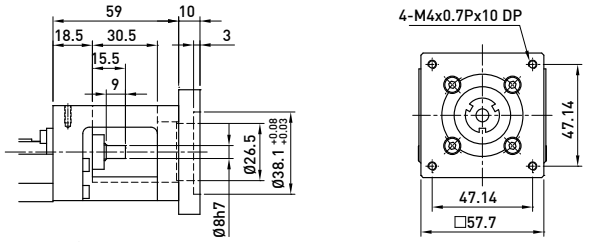
转接固定座 H0



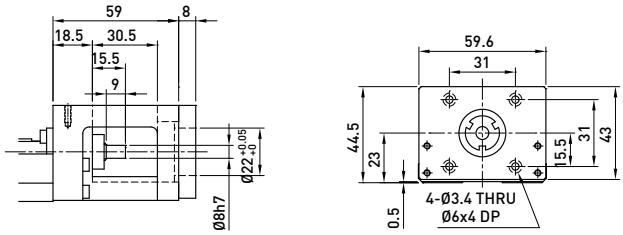
电机连接法兰 F3



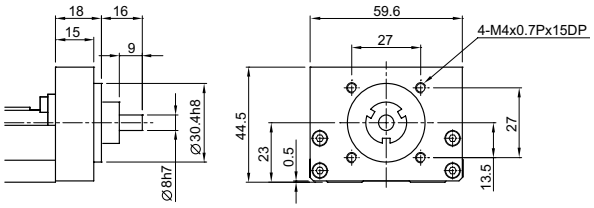
电机连接法兰 F4



电机连接法兰 F5

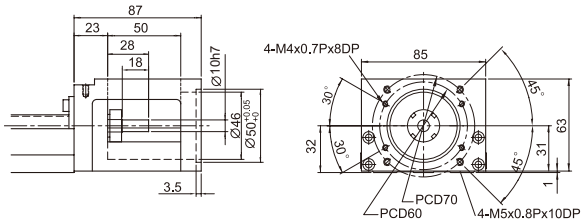


转接固定座H1

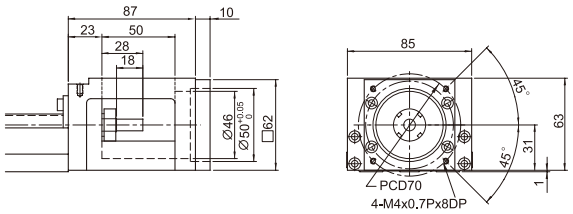


KK86D

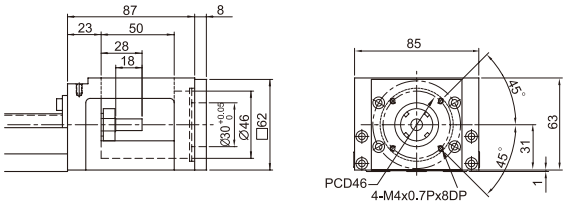
电机座 F0



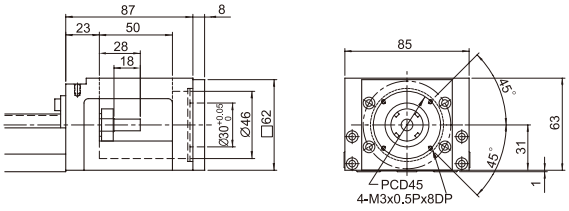
电机连接法兰 F1



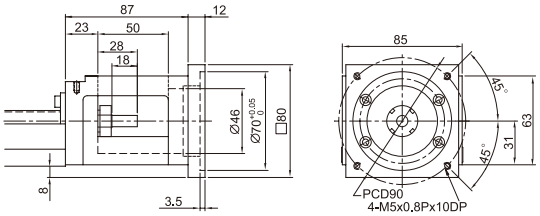
电机连接法兰 F2



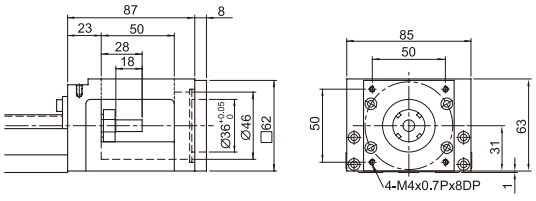
电机连接法兰 F3



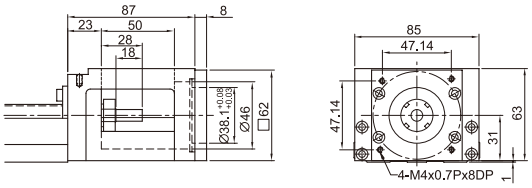
电机连接法兰 F4



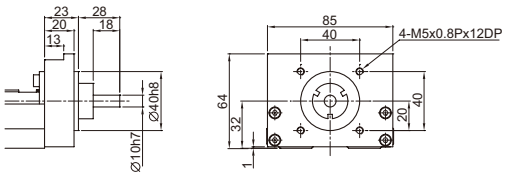
电机连接法兰 F5



电机连接法兰 F6

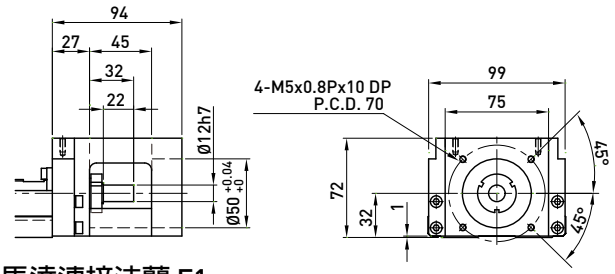


转接固定座 H0

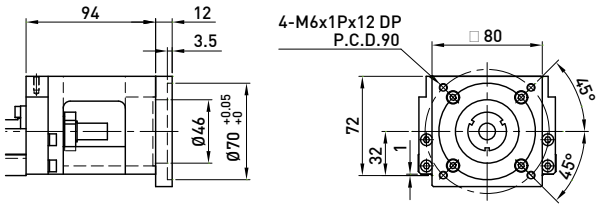


KK100

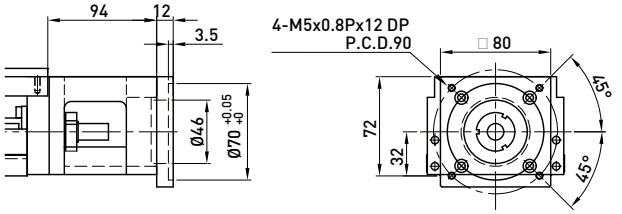
馬達座 F0



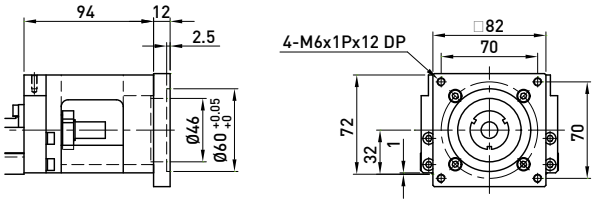
馬達連接法蘭 F1



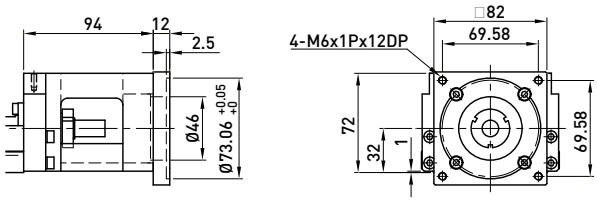
馬達連接法蘭 F2



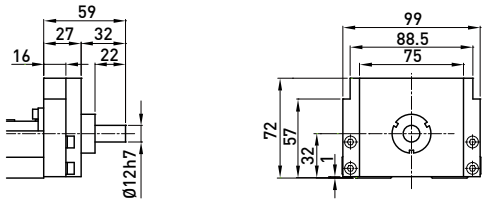
馬達連接法蘭 F3



馬達連接法蘭 F4

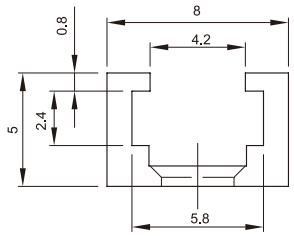


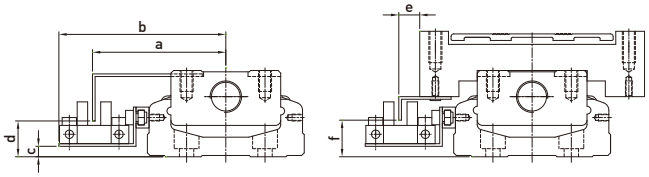
轉接固定座 H0



Limit switch

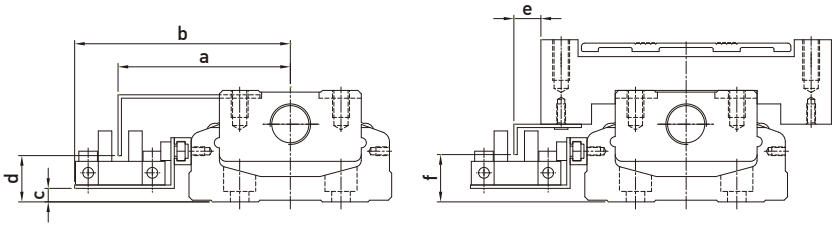
Extreme rails





Dimension	A	B	C	D	E	F
KK40	41.5	54.1	0.5	10.8	15.3	12
KK50	45.5	59	1	10	15	11
KK60D	51	63.8	4	14.5	8	13
KK86D	63.5	76.7	8	18	8	18
KK100	71	84	10	20	9	20

Limit Switch S1 : PM-L45



Dimension	A	B	C	D	E	F
KK40	36.5	44.3	1	9.8	10.5	12
KK50	41.3	48	1	10.5	10.2	11
KK60D	46.2	52.8	4	14	3.2	13
KK86D	59	65.7	8	18	3	18
KK100	66	73	10	20	4.2	20

Limit Switch S2 : PM-Y45

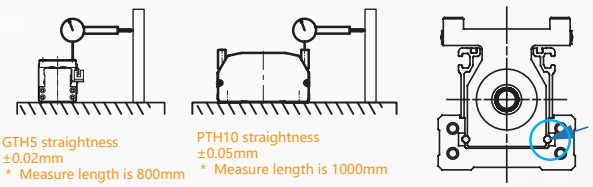
06

GTH series

Track-embedded screw slide

The track is embedded and the equal height and straightness are greatly improved

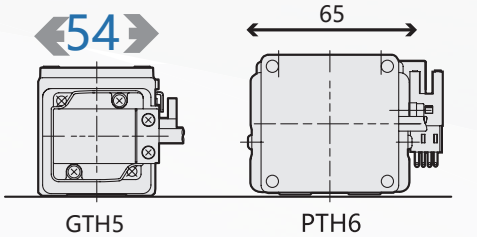
Flat straightness



* The max stroke is 1050mm
* Repeatable positioning accuracy ±0.01mm
* No removal of the cover and easy to assemble
* Stronger rigidity

Smaller size

Rigid strengthening



The load of 30kg under the same conditions is compared with the ETH series.

Rigid strengthening

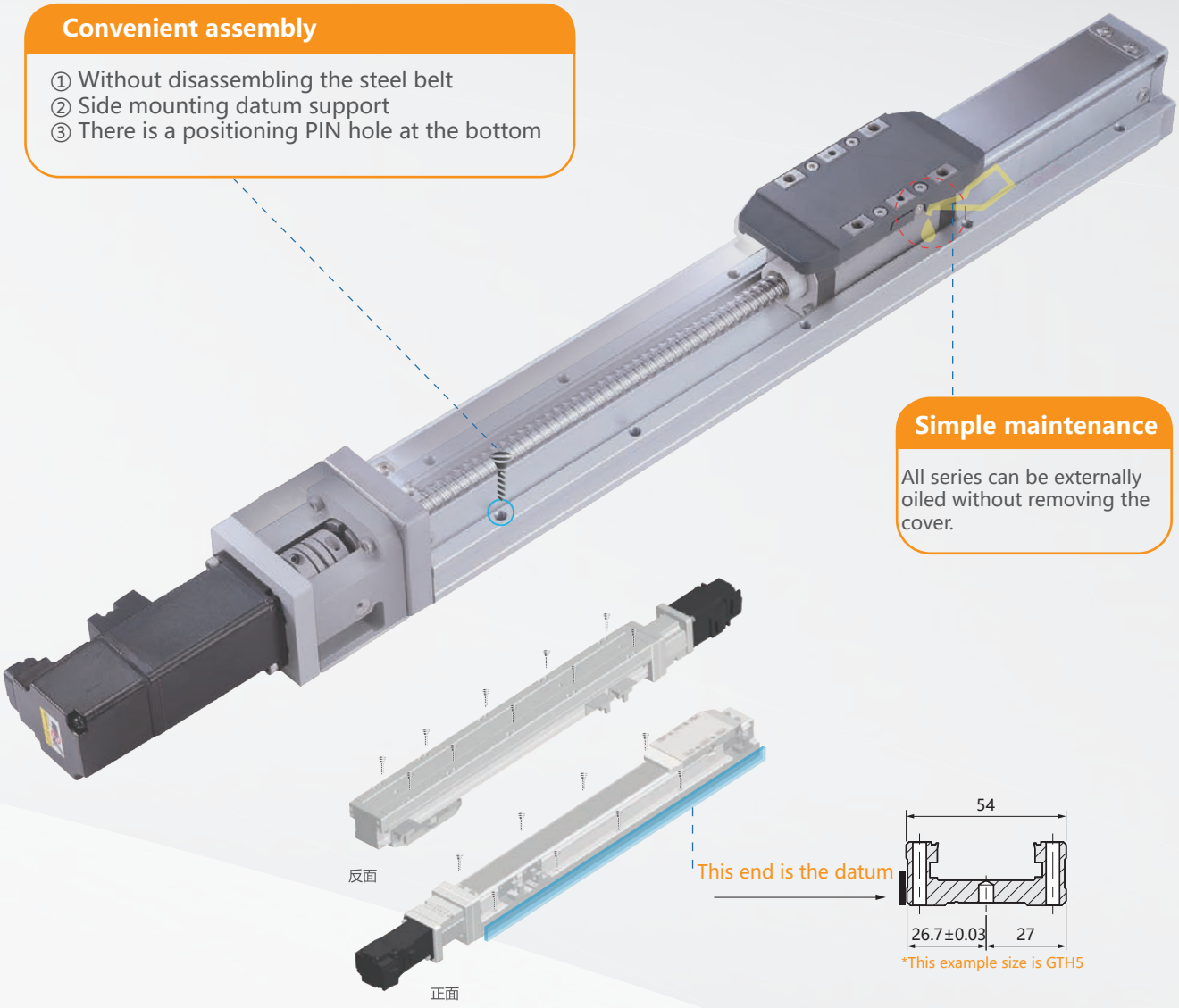
The body and slide are integrated into steel, which improves the problem of poor rigidity of the original aluminum slide.

Special steel belt design, not easy to dust

Special steel belt structure design can reduce dust. Can be used in cleanroom environments.

Convenient assembly

① Without disassembling the steel belt
② Side mounting datum support
③ There is a positioning PIN hole at the bottom



Simple maintenance

All series can be externally oiled without removing the cover.

GTH4

GTH4 - L2 - 100 - BC - M05B - C 4 - 0001

Model

Stroke
50-800mm
50 Interval
※Stroke 50 is limited to 2 groups of photoelectric devices

Special specification

Screw lead (mm) :
P02: 2mm
P06: 6mm
P12: 12mm

Motor position
BC: Exposure
BM: fold down
BL: fold left
BR: fold right

Motor brand, power:

M: Mitsubishi	50	50W	B
P: Panasonic	10	-	
Y: Yaskawa	20	-	
T: Delta	40	-	

Origin sensor:
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR
※stroke 50, the following restrictions apply:
1. C4 and D4 specifications are not available
2. The origin and limit need to be placed on different sides
3. Sensor plates need to be installed on the left and right sides of the slide

Endpoint limit sensor:
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR



※When the travel exceeds 450, there will be screw deflection. Please refer to page 14 of the table of contents.
※The motor acceleration and deceleration are set to 0.2 seconds.

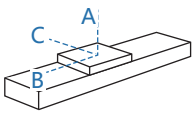
※Basic specifications

Specification	Repeatable positioning accuracy (mm)		±0.01		
	Screw lead (mm)		2	6	12
	Max speed (mm/s)		100	300	600
	Max load (kg)	Horizontal	25	20	12
		Vertical	8	5	2
	Rated thrust (N)		424	141	71
	Standard stroke (mm)		50-800mm/50 Interval		
Component	AC servo motor capacity (W)		50		
	Screw outer diameter (mm)		C7 φ 10		
	Coupling (mm)		7x8		
	Origin sensor	Plug	PM-Y45(NPN)		

※Allowable load torque table

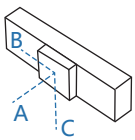
※Allowable load torque table

(Unit : mm)



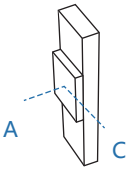
Horizontal installation		A	B	C
Lead2	12kg	1000	55	80
	18kg	750	35	50
	25kg	500	23	32
Lead6	10kg	550	53	70
	15kg	350	32	45
	20kg	250	22	31
Lead12	8kg	305	59	75
	10kg	240	45	57
	12kg	195	37	47

(Unit : mm)



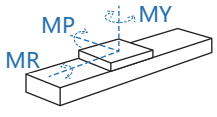
Side installation		A	B	C
Lead2	12kg	80	55	1000
	18kg	50	35	750
	25kg	32	23	500
Lead6	10kg	72	52	550
	15kg	45	32	345
	20kg	31	22	250
Lead12	8kg	75	59	300
	10kg	58	45	240
	12kg	47	37	190

(Unit : mm)



Vertical installation		A	C
Lead2	4kg	200	200
	8kg	100	100
	-	-	-
Lead6	3kg	200	200
	5kg	120	120
	-	-	-
Lead12	1.5kg	350	350
	2kg	260	260
	-	-	-

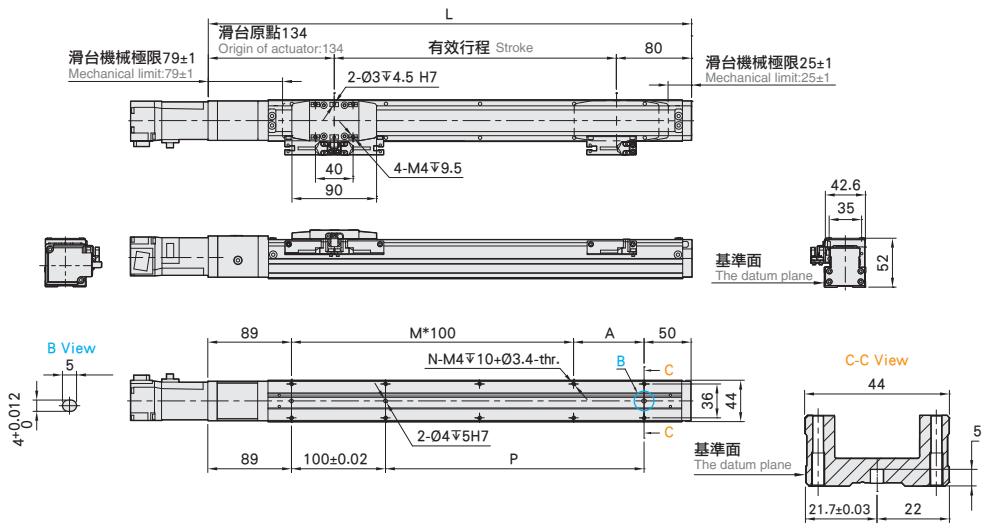
(Unit : N.m)



MY	79
MP	79
MR	116

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

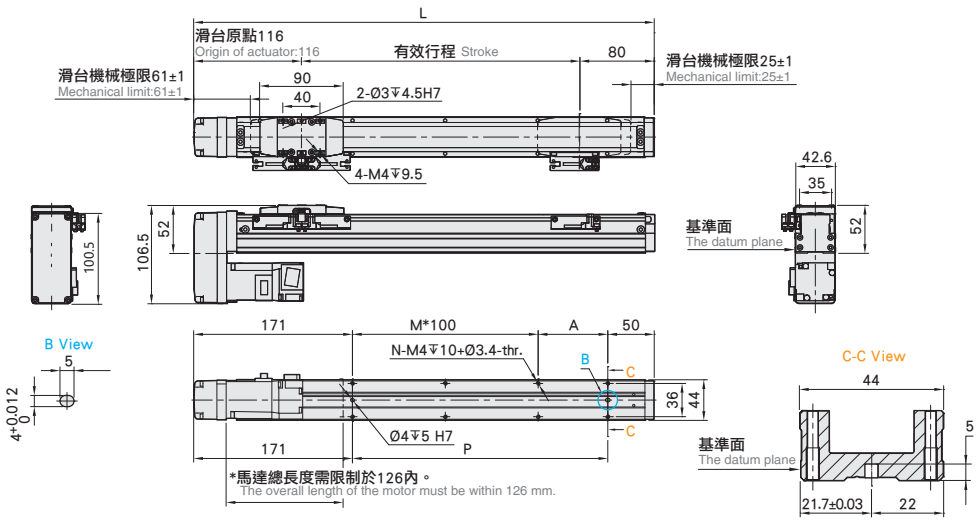
Motor exposure



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	264	314	364	414	464	514	564	614	664	714	764	814	864	914	964	1014
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	0.95	1.12	1.29	1.47	1.65	1.83	2.01	2.19	2.37	2.55	2.73	2.91	3.09	3.27	3.45	3.63

Motor folds down

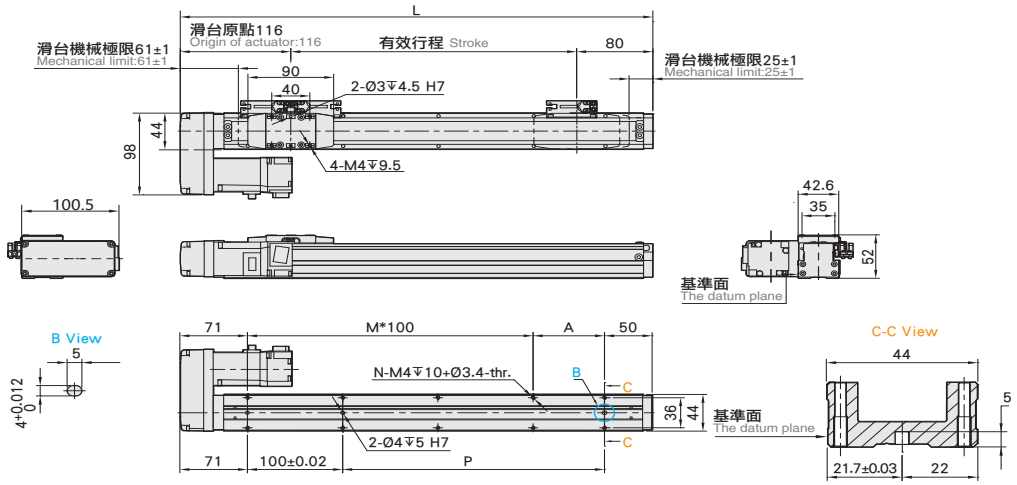


Unit: mm

行程 Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.04	1.22	1.40	1.58	1.76	1.94	2.12	2.30	2.48	2.66	2.84	3.02	3.20	3.38	3.56	3.74

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

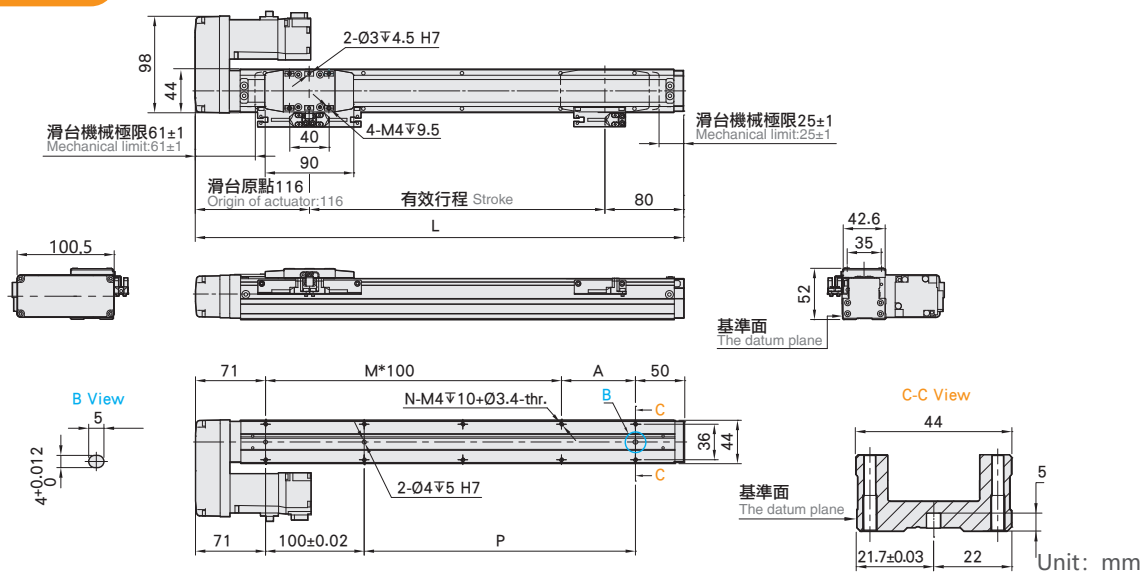
Motor folds left



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.04	1.22	1.40	1.58	1.76	1.94	2.12	2.30	2.48	2.66	2.84	3.02	3.20	3.38	3.56	3.74

Motor folds right



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.04	1.22	1.40	1.58	1.76	1.94	2.12	2.30	2.48	2.66	2.84	3.02	3.20	3.38	3.56	3.74

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

GTH5

GTH5 - L5 - 100 - BC - M10B - C 4 - 0001

Model

Stroke
50-800mm
50 Interval
※Stroke 50 is limited to 2 groups of photoelectric devices

Special specification

Screw lead (mm) :
P05: 05mm
P10:10mm
P20: 20mm

Motor position
BC: Exposure
BM: fold down
BL: fold left
BR: fold right

Motor brand, power:

M: Mitsubishi	05	-	B
P: Standard	10	100w	
Y: Yaskawa	20	-	
T: Delta	40	-	

Origin sensor:
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR
※stroke 50, the following restrictions apply:
1. C4 and D4 specifications are not available
2. The origin and limit need to be placed on different sides
3. Sensor plates need to be installed on the left and right sides of the slide

Endpoint limit sensor:
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR



※When the travel exceeds 450, there will be screw deflection. Please refer to page 14 of the table of contents.
※The motor acceleration and deceleration are set to 0.2 seconds.

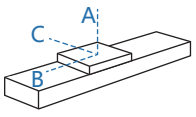
※Basic specifications

Specification	Repeatable positioning accuracy (mm)		±0.01		
	Screw lead (mm)		5	10	20
	Max speed (mm/s)		250	500	1000
	Max load (kg)	Horizontal	30	15	10
		Vertical	10	5	2.5
	Rated thrust (N)		341	170	85
	Standard stroke (mm)		50-800mm/50Interval		
Component	AC servo motor capacity (W)		100		
	Screw outer diameter (mm)		C7 φ 12		
	Coupling (mm)		7x8		
	Origin sensor	Plug	PM-Y45(NPN)		

※Allowable load torque table

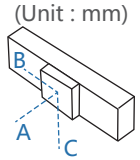
※Allowable load torque table

(Unit : mm)



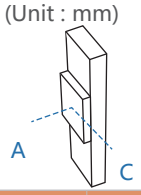
Horizontal installation		A	B	C
Lead 05	10kg	650	75	100
	20kg	440	32	45
	30kg	270	19	25
Lead 0	5kg	600	145	185
	10kg	370	70	85
	15kg	250	42	52
Lead 20	5kg	320	120	130
	8kg	220	70	80
	10kg	175	55	60

(Unit : mm)



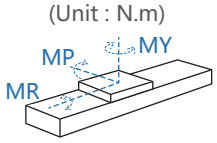
Side installation		A	B	C
Lead 05	10kg	100	75	650
	20kg	45	32	420
	30kg	25	19	260
Lead 10	5kg	180	145	600
	10kg	85	68	370
	15kg	52	42	250
Lead 20	5kg	130	120	320
	8kg	75	70	220
	10kg	60	55	170

(Unit : mm)



Vertical installation		A	C
Lead 05	6kg	145	145
	8kg	110	110
	10kg	90	90
Lead 10	1kg	800	800
	3kg	260	260
	5kg	155	155
Lead20	1kg	600	600
	2kg	300	300
	2.5kg	250	250

(Unit : N.m)

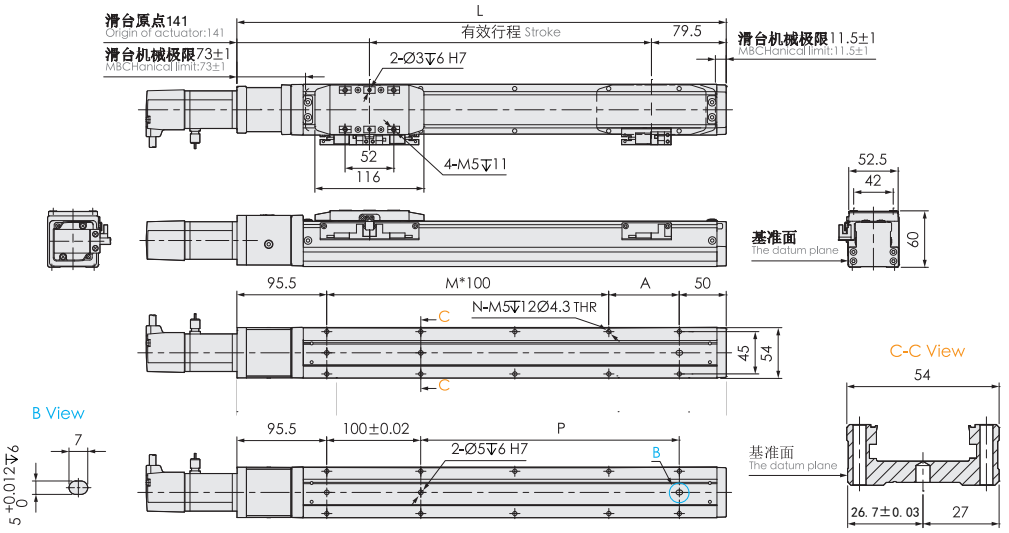


MY	103
MP	103
MR	144

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor exposure

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.

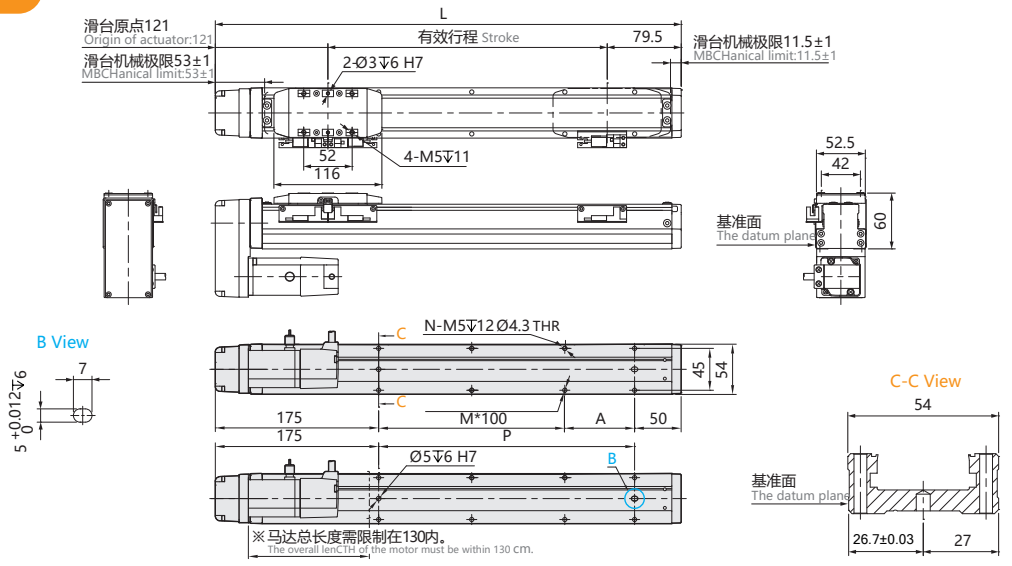


Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.65	1.79	1.92	2.11	2.39	2.50	2.52	2.75	2.86	2.95	3.15	3.28	3.44	3.58	3.71	4.09

Motor folds down

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.



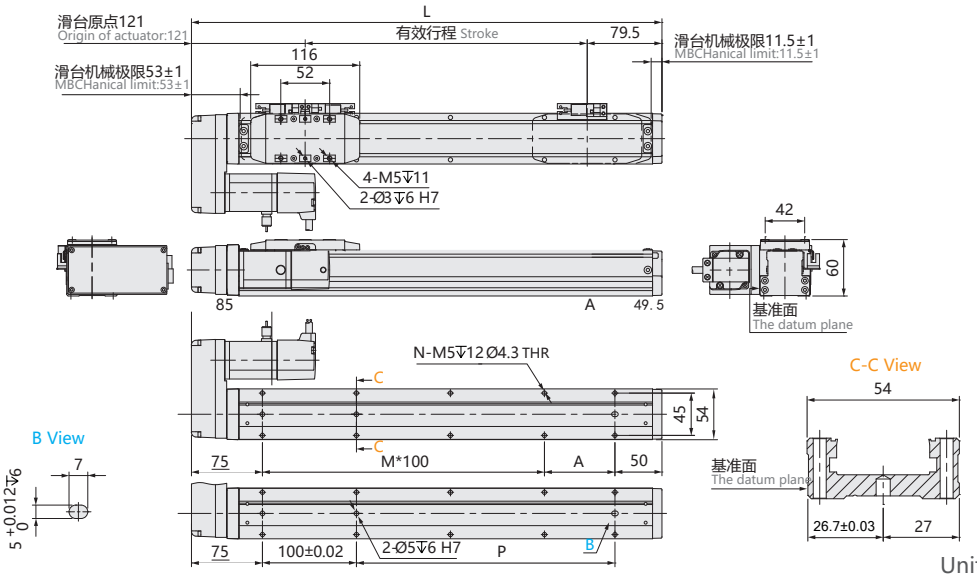
Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.68	1.80	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.60	3.74	4.12

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Motor folds left

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.

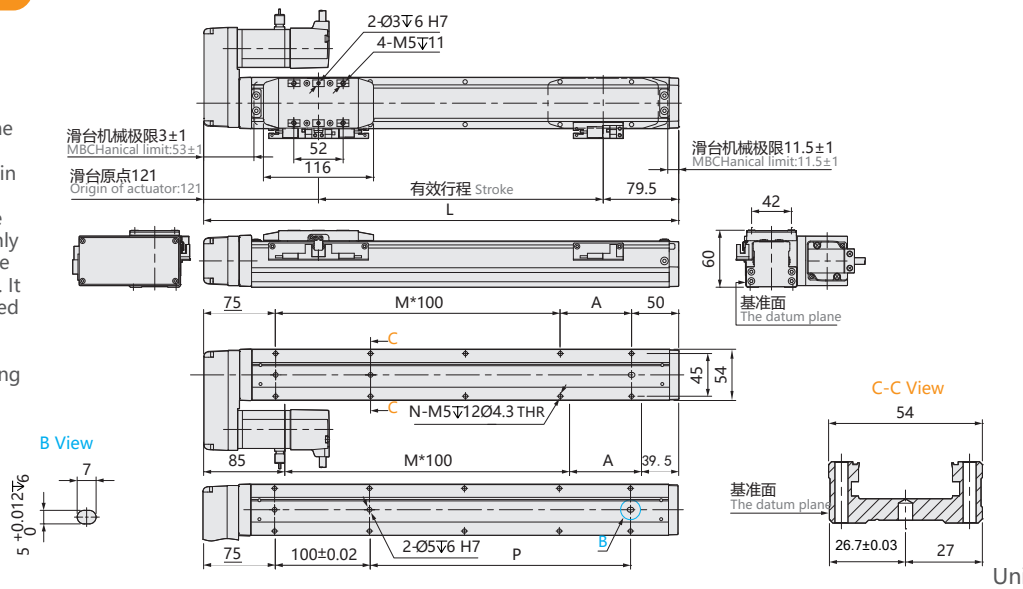


Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.68	1.80	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.60	3.74	4.12

Motor folds right

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.68	1.80	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.60	3.74	4.12

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

GTH5S

GTH5S - L5 - 100 - BC - M10B - C 4 - 0001

Model

Stroke
25-325mm
25 Interval

Special specification

Screw lead (mm) :
P05: 05mm

Motor position
BC: Exposure
BM: fold down
BL: fold left
BR: fold right

Motor brand, power:
M: Mitsubishi 05 - B
P: Standard 10 100w
Y: Yaskawa 20 -
T: Delta 40 -

Origin sensor:
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR
※stroke 50, the following restrictions apply:
1. C4 and D4 specifications are not available
2. The origin and limit need to be placed on different sides
3. Sensor plates need to be installed on the left and right sides of the slide

Endpoint limit sensor:
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR



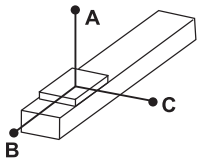
※Basic specifications

Specification	Repeatable positioning accuracy (mm)		±0.01
	Screw lead (mm)		5
	Max speed (mm/s)		100
	Max load (kg)	Horizontal	30(Double slide seat)
		Vertical	10(Double slide seat)
	Rated thrust (N)		854
	Standard stroke (mm)		25-325mm/25 Interval
Component	AC servo motor capacity (W)		100
	Screw outer diameter (mm)		C7 φ 12
	Coupling (mm)		7x8
	Origin sensor	Plug	PM-Y45(NPN)

※Allowable load torque table

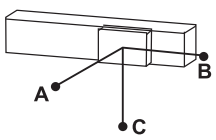
※Allowable load torque table

(Unit : mm)



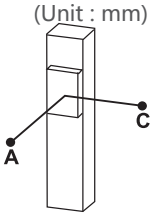
Horizontal installation		A	B	C
Lead 05	10kg	900	100	135
	20kg	700	45	60
	30kg	550	25	35

(Unit : mm)



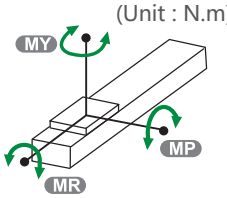
Side installation		A	B	C
Lead 05	10kg	135	100	900
	20kg	60	45	700
	30kg	37	27	550

(Unit : mm)



Vertical installation		A	C
Lead 05	6kg	180	180
	8kg	135	135
	10kg	110	110

(Unit : N.m)

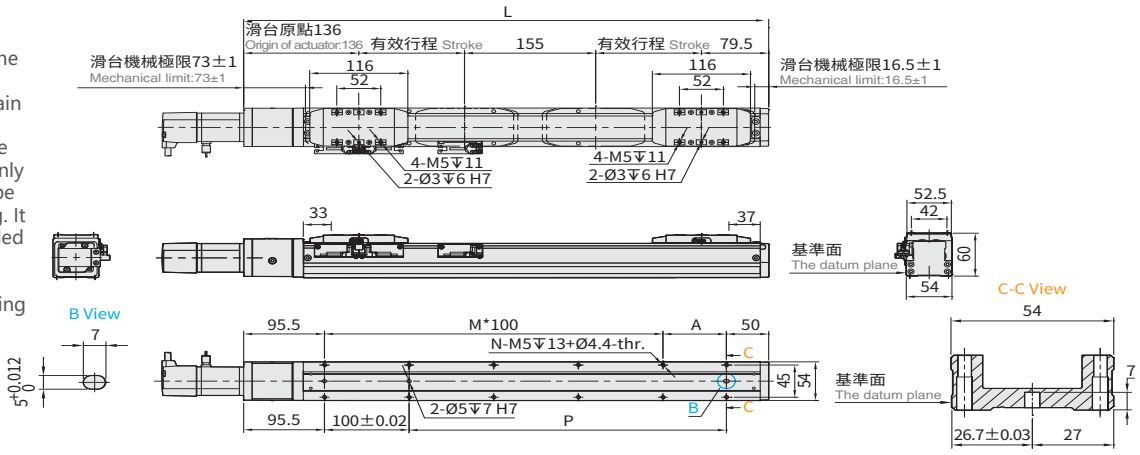


MY	103
MP	103
MR	144

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor exposure

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.

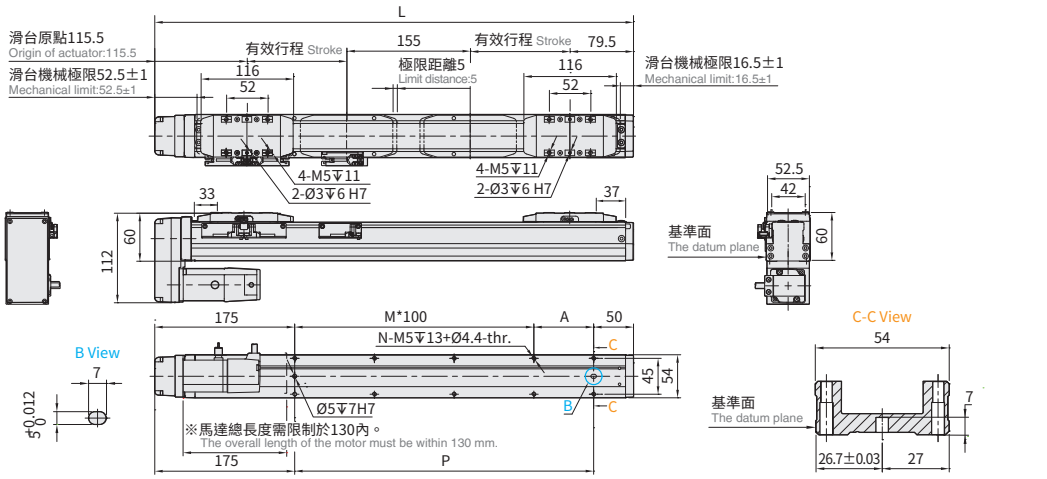


Unit: mm

Stroke	25	50	75	100	125	150	175	200	225	250	275	300	325
L	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	2	3	3	4	4	5	5	6	6	7	7	8	8
N	8	10	10	12	12	14	14	16	16	18	18	20	20
P	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	2.82	3.01	3.21	3.41	3.6	3.8	4	4.19	4.39	4.59	7.78	4.98	5.18

Motor folds down

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.



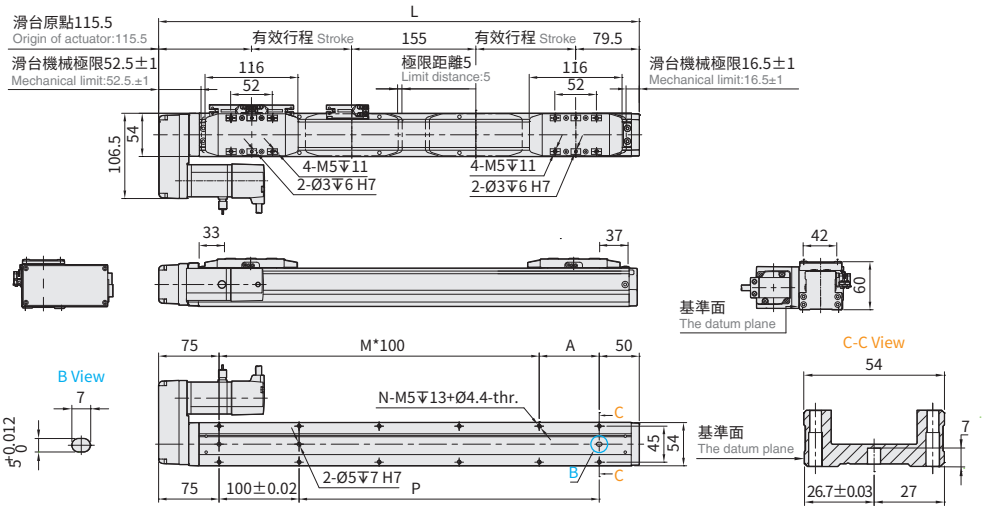
Unit: mm

Stroke	25	50	75	100	125	150	175	200	225	250	275	300	325
L	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	2	2	3	3	4	4	5	5	6	6	7	7
N	6	8	8	10	10	12	12	14	14	16	16	18	18
P	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	2.99	3.18	3.38	3.58	3.77	3.97	4.17	4.36	4.56	4.76	4.95	5.15	5.35

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Motor folds left

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.

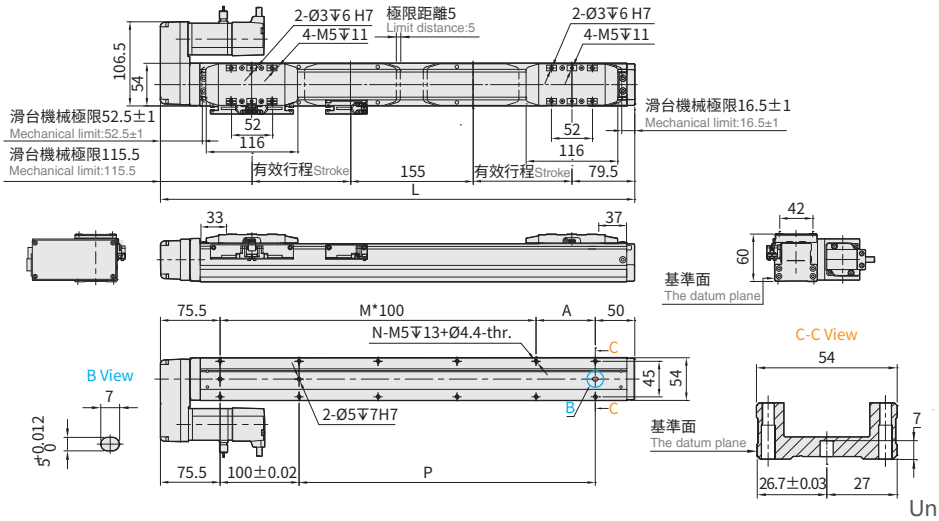


Unit: mm

Stroke	25	50	75	100	125	150	175	200	225	250	275	300	325
L	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	2	3	3	4	4	5	5	6	6	7	7	8	8
N	8	10	10	12	12	14	14	16	16	18	18	20	20
P	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	2.99	3.18	3.38	3.58	3.77	3.97	4.17	4.36	4.56	4.76	4.95	5.15	5.35

Motor folds right

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.



Unit: mm

Stroke	25	50	75	100	125	150	175	200	225	250	275	300	325
L	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	2	3	3	4	4	5	5	6	6	7	7	8	8
N	8	10	10	12	12	14	14	16	16	18	18	20	20
P	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	2.99	3.18	3.38	3.58	3.77	3.97	4.17	4.36	4.56	4.76	4.95	5.15	5.35

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

GTH8

GTH8 - L10 - 100 - BC - M20B - C 4 - 0001

Model

Stroke
50-1100mm
50 Interval
※Stroke 50 is limited to 2 groups of photoelectric devices

Screw lead (mm) :
P05: 05mm
P10:10mm
P20:20mm

Motor position
BC: Exposure
BM: fold down
BL: fold left
BR: fold right

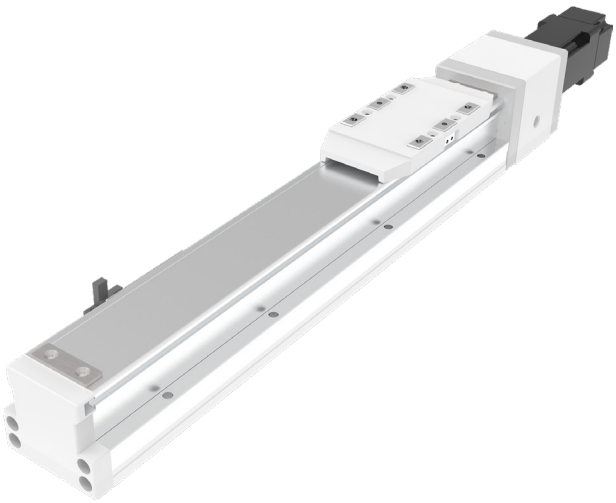
Motor brand, power:

M: Mitsubishi	05	-	B
P: Standard	10	100w	
Y: Yaskawa	20	200W	
T: Delta	40	-	

Origin sensor:
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR
※stroke 50, the following restrictions apply:
1. C4 and D4 specifications are not available
2. The origin and limit need to be placed on different sides
3. Sensor plates need to be installed on the left and right sides of the slide

Endpoint limit sensor:
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR

※Basic specifications



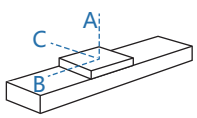
Specification	Repeatable positioning accuracy (mm)		±0.01		
	Screw lead (mm)		5	10	20
	Max speed (mm/s)		250	500	1000
	Max load (kg)	Horizontal	50	30	18
		Vertical	15	8	3
	Rated thrust (N)		683	341	174
	Standard stroke (mm)		50-1100mm/50Interval		
Component	AC servo motor capacity (W)		200		
	Screw outer diameter (mm)		C7 φ 16		
	Coupling (mm)		10x14/11 注		
	Origin sensor	Plug	PM-Y45(NPN)		

※When the stroke exceeds 750, the screw will be deflected, so please reduce the speed.
※Motor acceleration and deceleration are set to 0.2 seconds.
Note: When using the Panasonic 200W motor, the motor axis is 11; For other brands, the motor axis
is 14.

※Allowable load torque table

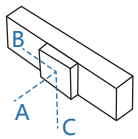
※Allowable load torque table

(Unit : mm)



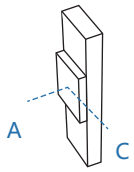
Horizontal installation		A	B	C
Lead 05	20kg	1560	153	237
	35kg	890	81	126
	50kg	550	53	82
Lead 10	10kg	1730	286	412
	20kg	839	136	196
	30kg	541	86	124
Lead 20	6kg	1213	403	493
	9kg	800	264	323
	18kg	592	194	238

(Unit : mm)



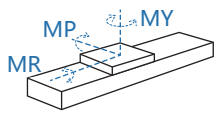
Side installation		A	B	C
Lead 05	20kg	214	153	1435
	35kg	113	81	845
	50kg	74	53	506
Lead 10	10kg	370	286	1400
	20kg	176	136	800
	30kg	112	86	495
Lead 20	6kg	444	403	760
	9kg	292	264	650
	18kg	214	194	544

(Unit : mm)



Vertical installation		A	C
Lead 05	10kg	331	331
	15kg	220	220
	-	-	-
Lead 10	5kg	589	589
	8kg	368	368
	-	-	-
Lead 20	3kg	935	935
	-	-	-
	-	-	-

(Unit : N.m)

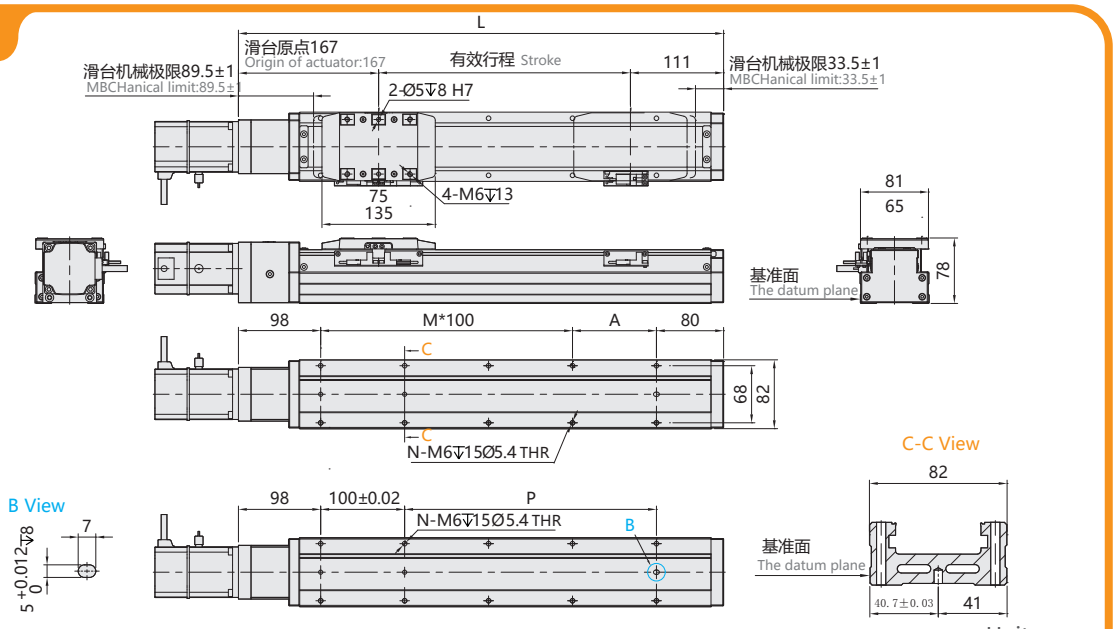


MY	318
MP	318
MR	626

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor exposure

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.

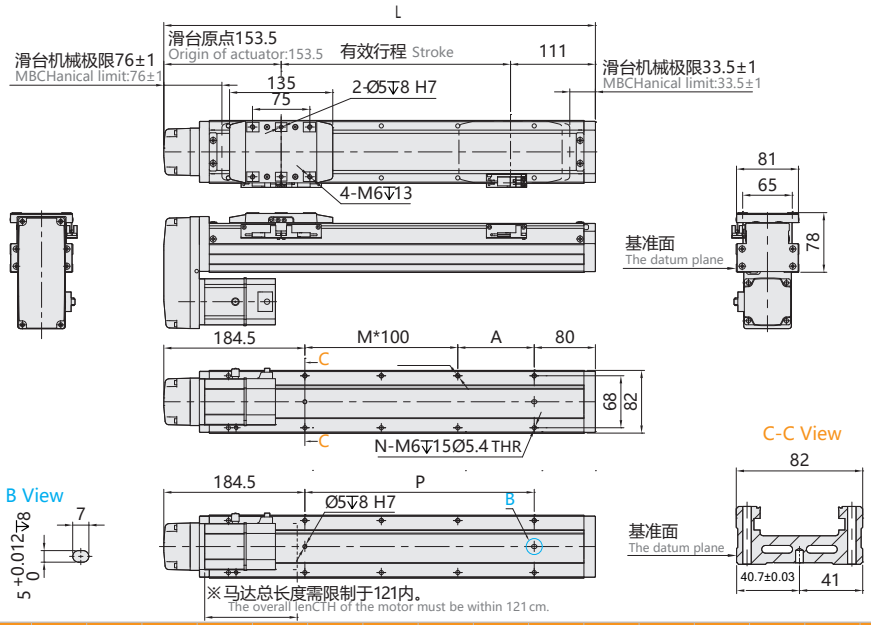


Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	3.91	4.29	4.70	5.00	5.35	5.68	6.00	6.35	6.64	697	7.41	7.71	8.12	8.41	8.65	8.96	9.37	9.62	10.01	10.28	10.70	11.12

Motor folds down

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.



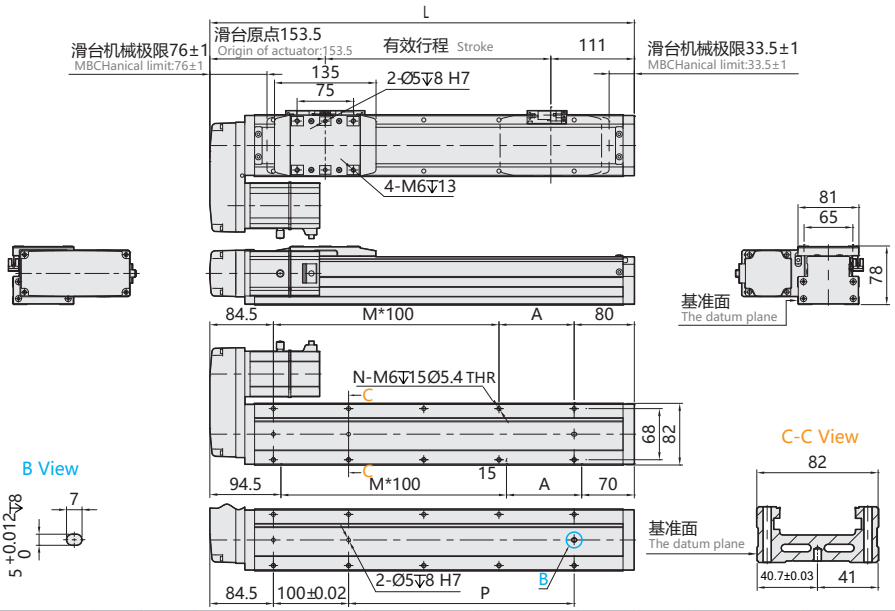
Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.16	8.45	8.69	9.00	9.41	9.66	10.08	10.32	10.74	11.16

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Motor folds left

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.

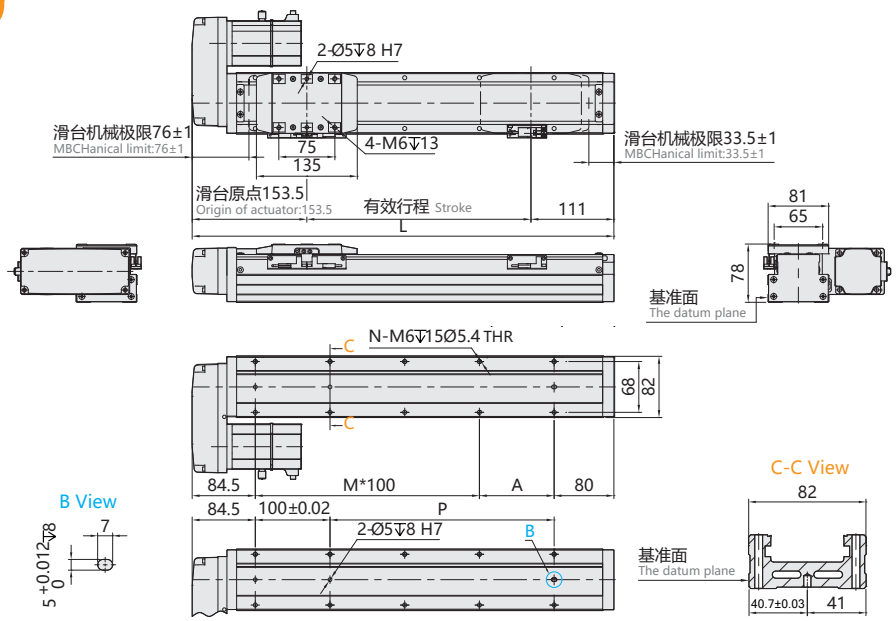


Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.16	8.45	8.69	9.00	9.41	9.66	10.08	10.32	10.74	11.16

Motor folds right

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.16	8.45	8.69	9.00	9.41	9.66	10.08	10.32	10.74	11.16

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

GTH8S

GTH8S - L5 - 100 - BC - M40B - C 4 - 0001

- GTH8S: Model
- L5: Screw lead (mm) : P05: 05mm
- 100: Stroke 25-450mm 25 Interval
- BC: Motor position
  - BC: Exposure
  - BM: fold down
  - BL: fold left
  - BR: fold right
- M40B: Motor brand, power:
  - M: Mitsubishi 05 - B
  - P: Standard 10 100w
  - Y: Yaskawa 20 200W
  - T: Delta 40 -
- C: Origin sensor: Plug-in type
  - C Motor side
  - D Anti-motor side
  - No SENSOR
  - E No SENSOR
  - ※stroke 50, the following restrictions apply:
  - 1. C4 and D4 specifications are not available
  - 2. The origin and limit need to be placed on different sides
  - 3. Sensor plates need to be installed on the left and right sides of the slide
- 4: Endpoint limit sensor: Plug-in type
  - 3 1 pcs
  - 4 2 pcs
  - No SENSOR
  - 5 No SENSOR
- 0001: Special specification



※Basic specifications

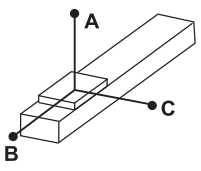
Specification	Repeatable positioning accuracy (mm)		±0.01
	Screw lead (mm)		5
	Max speed (mm/s)		250
	Max load (kg)	Horizontal	50(Double slide seat)
		Vertical	15(Double slide seat)
	Rated thrust (N)		1388
	Standard stroke (mm)		25-450mm/25Interval
Component	AC servo motor capacity (W)		400
	Screw outer diameter (mm)		C7 φ 16
	Coupling (mm)		10x14
	Origin sensor	Plug	PM-Y45(NPN)

※When the stroke exceeds 750, the screw will be deflected, so please reduce the speed.
※Motor acceleration and deceleration are set to 0.2 seconds.
Note: When using the Panasonic 200W motor, the motor axis is 11; For other brands, the motor axis
is 14.

※Allowable load torque table

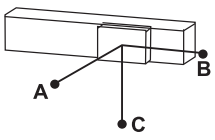
※Allowable load torque table

(Unit : mm)



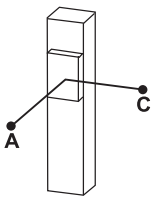
Horizontal installation		A	B	C
Lead 05	20kg	1560	153	237
	35kg	890	81	126
	50kg	550	53	82

(Unit : mm)



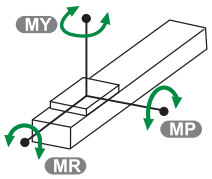
Side installation		A	B	C
Lead 05	20kg	214	153	1435
	35kg	113	81	845
	50kg	74	53	506

(Unit : mm)



Vertical installation		A	C
Lead 05	10kg	331	331
	15kg	220	220
	-	-	-

(Unit : N.m)

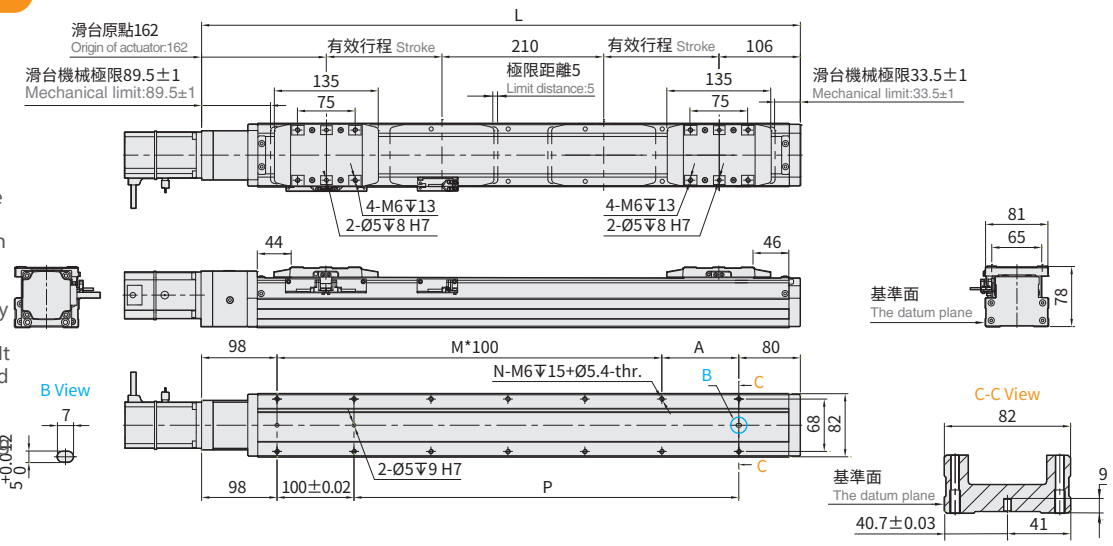


MY	318
MP	318
MR	626

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor exposure

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.

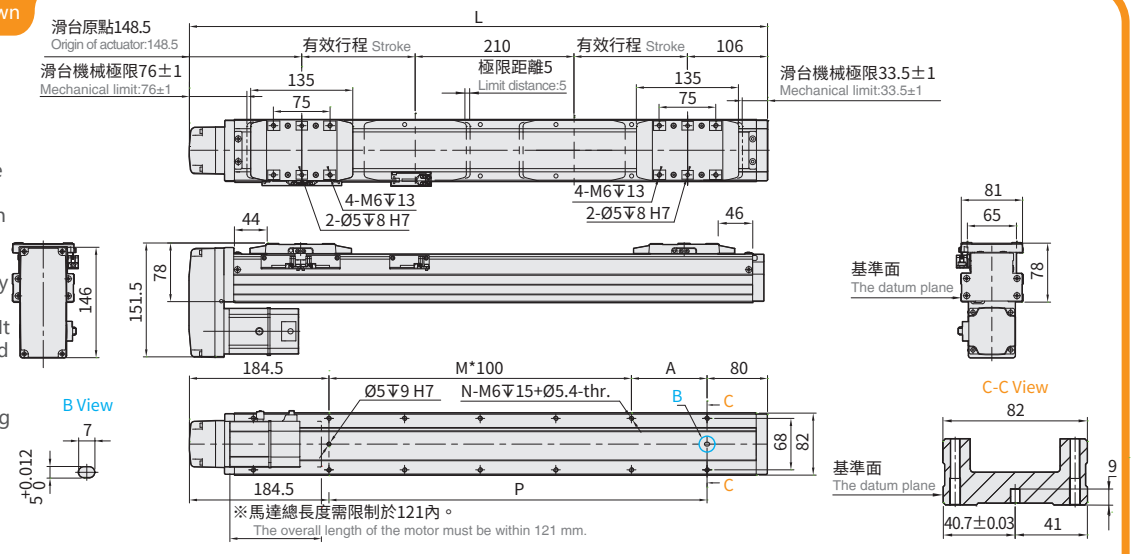


Unit: mm

Stroke	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450
L	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	6.64	7.00	7.37	7.73	8.10	8.46	8.83	9.19	9.56	9.92	10.29	10.65	11.02	11.38	11.75	12.11	12.48	12.85

Motor folds down

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.



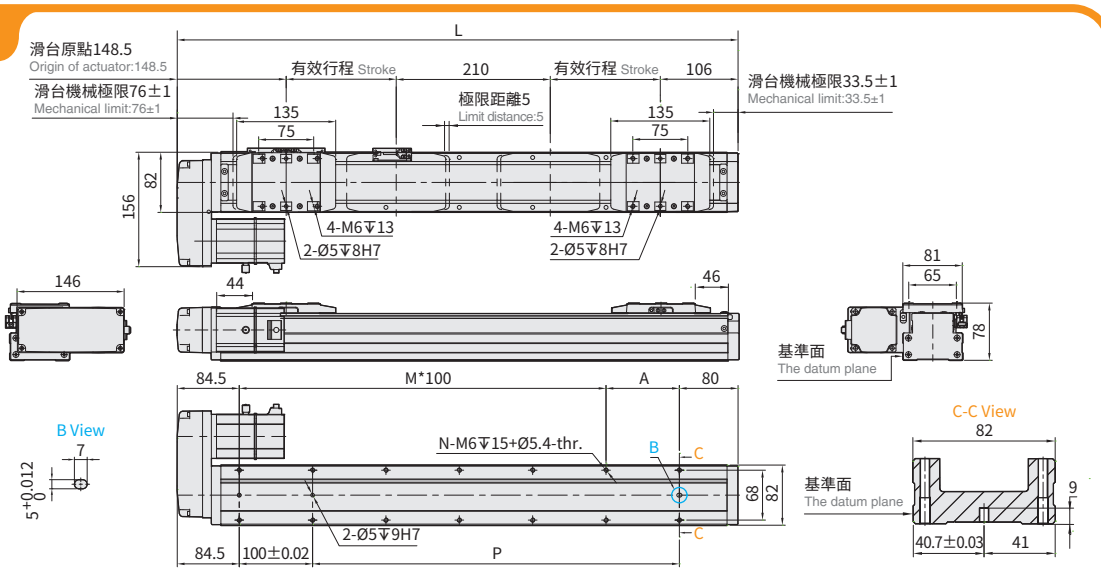
Unit: mm

Stroke	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450
L	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92	14.44	14.96	15.48	12.85

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Motor folds left

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.

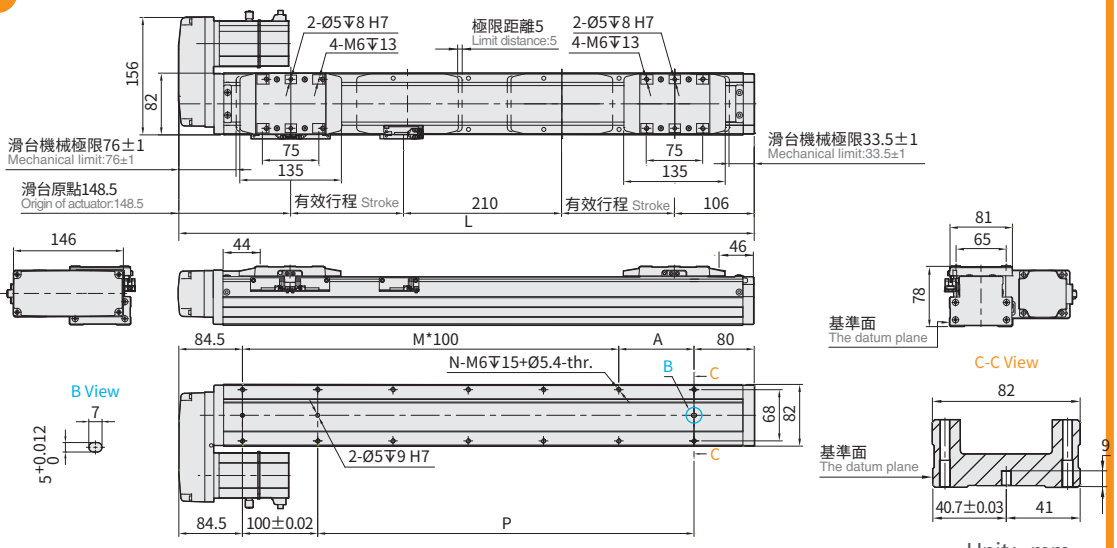


Unit: mm

Stroke	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450
L	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92	14.44	14.96	15.48	12.85

Motor folds right

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.



Unit: mm

Stroke	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450
L	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92	14.44	14.96	15.48	12.85

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

GTH12

GTH12 - L5 - 100 - BC - M 40 B - C 4 - 0001

Model

Stroke
50-1250mm
50 Interval
※Stroke 50 is limited to 2 groups of photoelectric devices

Screw lead (mm) :
P05: 05mm
P10:10mm
P20:20mm
P32:32mm

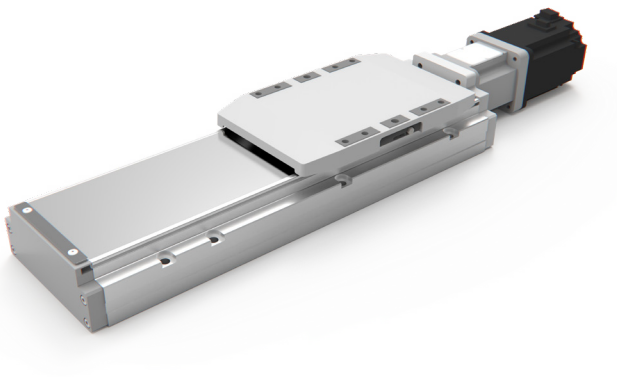
Motor position
BC: Exposure
BM: fold down
BL: fold left
BR: fold right

Motor brand, power:
M: Mitsubishi 05 - B
P: Standard 10 100w
Y: Yaskawa 20 200W
T: Delta 40 400W

Origin sensor:
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR
※stroke 50, the following restrictions apply:
1. C4 and D4 specifications are not available
2. The origin and limit need to be placed on different sides
3. Sensor plates need to be installed on the left and right sides of the slide

Endpoint limit sensor:
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR

Special specification



※Basic specifications

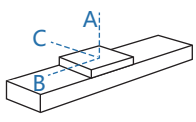
Specification	Repeatable positioning accuracy (mm)		±0.01			
	Screw lead (mm)		5	10	20	32
	Max speed (mm/s)		250	500	1000	1600
	Max load (kg)	Horizontal	110	88	40	30
		Vertical	33	22	10	8
	Rated thrust (N)		1388	694	347	218
	Standard stroke (mm)		50-1250mm/50 Interval			
Component	AC servo motor capacity (W)		400			
	Screw outer diameter (mm)		C7φ16			
	Coupling (mm)		10×14			
	Origin sensor	Plug	PM-Y45(NPN)			

※When the stroke exceeds 750, the screw will be deflected, so please reduce the speed.
※Motor acceleration and deceleration are set to 0.2 seconds.
Note: When using the Panasonic 200W motor, the motor axis is 11; For other brands, the motor axis is 14.

※Allowable load torque table

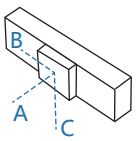
※Allowable load torque table

(Unit : mm)



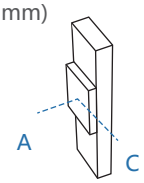
Horizontal installation		A	B	C
Lead 05	60kg	2850	250	340
	80kg	2100	180	250
	110kg	1500	120	170
Lead 10	30kg	2850	490	600
	50kg	1700	280	350
	88kg	950	140	190
Lead 20	10kg	3400	1250	1400
	22kg	1650	550	620
	40kg	900	290	330
Lead 32	15kg	1100	570	550
	25kg	620	330	320
	30kg	520	270	260

(Unit : mm)



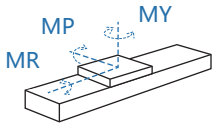
Side installation		A	B	C
Lead 05	55kg	280	280	3300
	75kg	200	195	2400
	110kg	130	125	1550
Lead 10	35kg	400	410	2500
	55kg	245	250	1550
	88kg	150	150	950
Lead 20	12kg	900	1070	3000
	20kg	550	630	1800
	40kg	260	300	900
Lead 32	15kg	440	570	1050
	30kg	210	270	520
	-	-	-	-

(Unit : mm)



Vertical installation		A	C
Lead 05	15kg	1200	1200
	22kg	820	820
	33kg	550	550
Lead 10	10kg	1600	1600
	14kg	1150	1150
	22kg	730	730
Lead 20	7kg	1800	1800
	10kg	1250	1250
	-	-	-
Lead 32	5kg	1600	1600
	8kg	1000	1000
	-	-	-

(Unit : N.m)

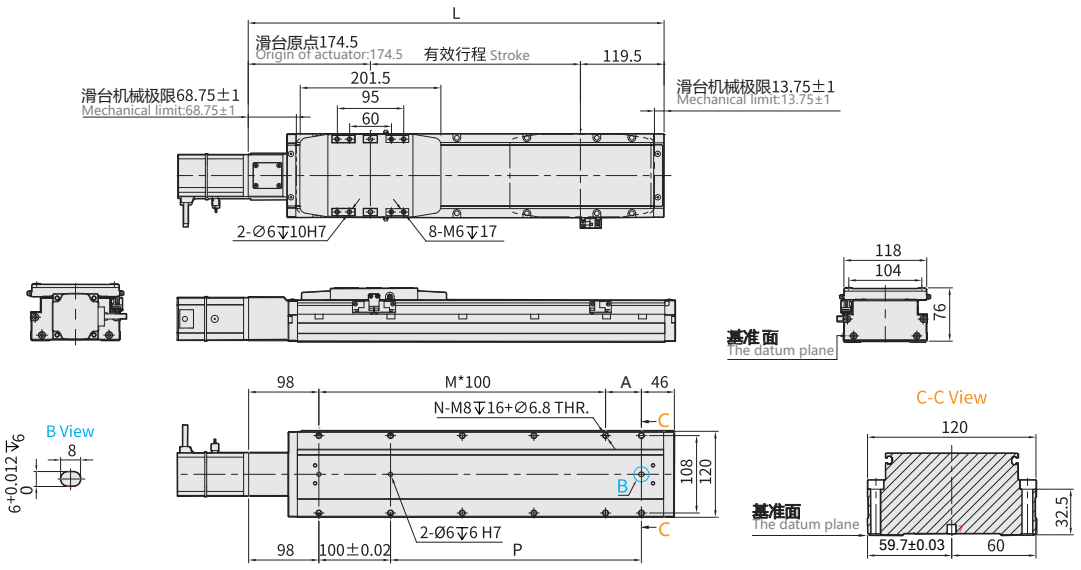


MY	606
MP	606
MR	1168

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor exposure

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.

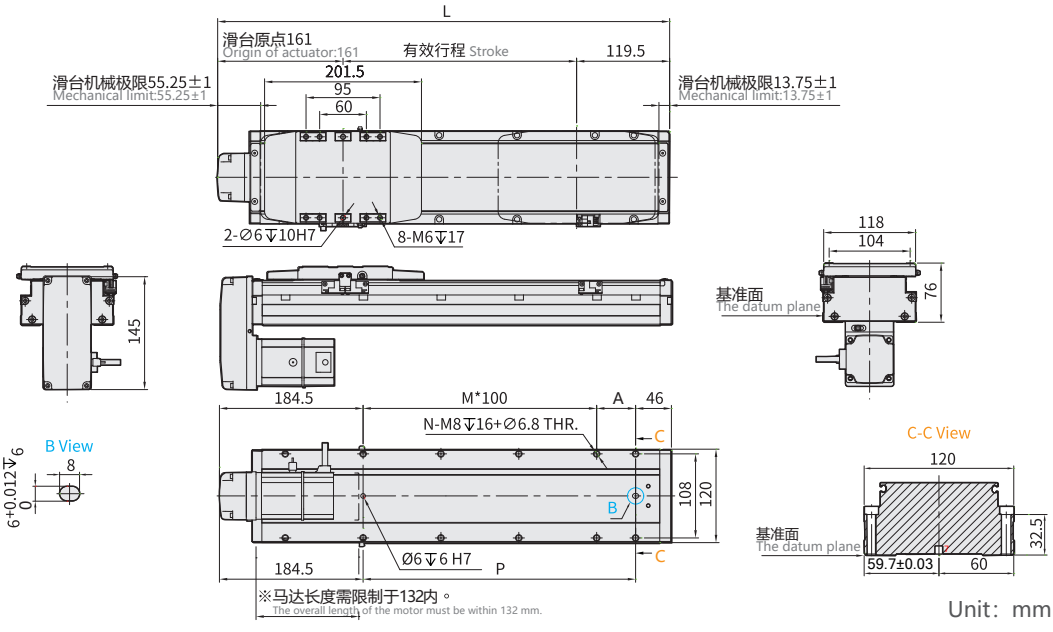


Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	344	394	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
KG	5.05	5.4	5.75	6.1	6.45	6.8	7.15	7.5	7.85	8.2	8.55	8.9	9.25	9.6	9.95	10.3	10.65	11	11.35	11.7	12.05	12.4	12.75	13.1	13.45

Motor folds down

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.



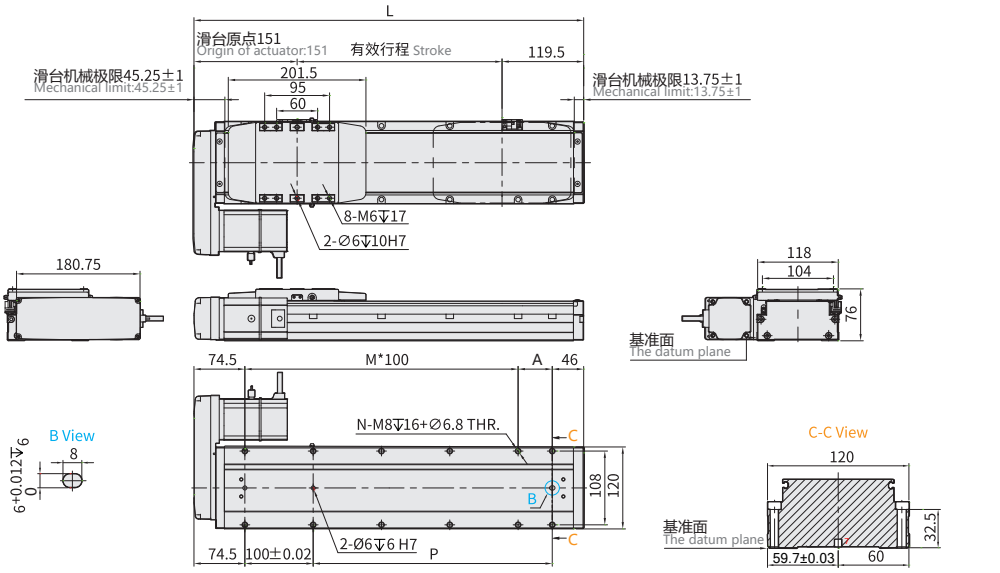
Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	330.5	380.5	430.5	480.5	530.5	580.5	630.5	680.5	730.5	780.5	830.5	880.5	930.5	980.5	1030.5	1080.5	1130.5	1180.5	1230.5	1280.5	1330.5	1380.5	1430.5	1480.5	1530.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
KG	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.26	13.61

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Motor folds left

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.

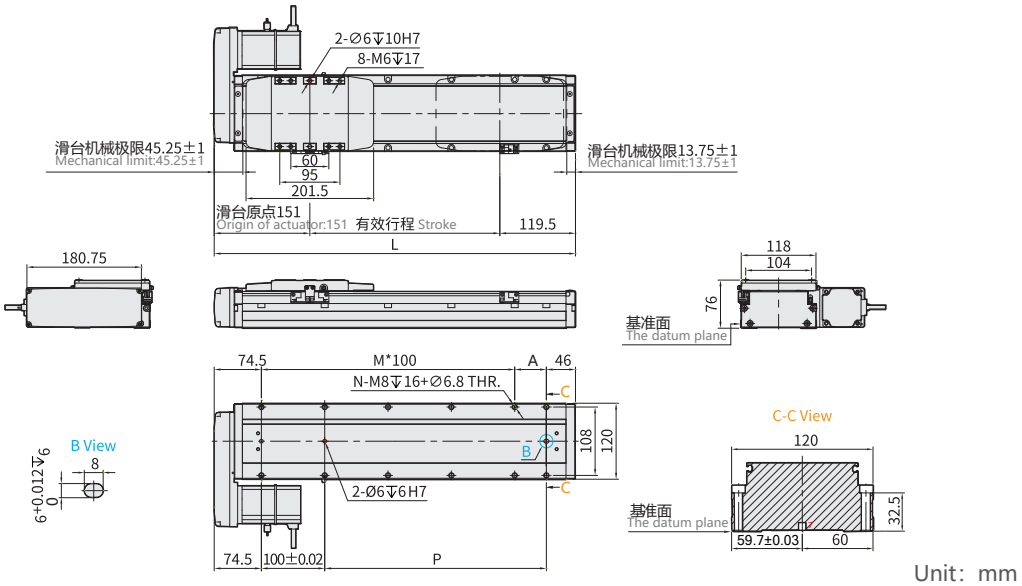


Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5	1070.5	1120.5	1170.5	1220.5	1270.5	1320.5	1370.5	1420.5	1470.5	1520.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
KG	5.25	5.6	5.95	6.3	6.65	7	7.35	7.7	8.05	8.4	8.75	9.1	9.45	9.8	10.15	10.85	11.2	11.55	11.9	12.25	12.6	12.56	12.91	13.26	13.61

Motor folds right

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.



Unit: mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5	1070.5	1120.5	1170.5	1220.5	1270.5	1320.5	1370.5	1420.5	1470.5	1520.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
KG	5.25	5.6	5.95	6.3	6.65	7	7.35	7.7	8.5	8.4	8.75	9.1	9.45	9.8	10.15	10.85	11.2	11.55	11.9	12.25	12.6	12.56	12.91	13.26	13.61

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

GTH15

GTH15 - L5 - 100 - BC - M 75 B - C 4 - 0001

Model: GTH15

Screw lead (mm) :
- P05: 5mm
- P10: 10mm
- P20: 20mm
- P32: 32mm

Stroke
100-1250mm
50 Interval
※Stroke 50 is limited to 2 groups of photoelectric devices

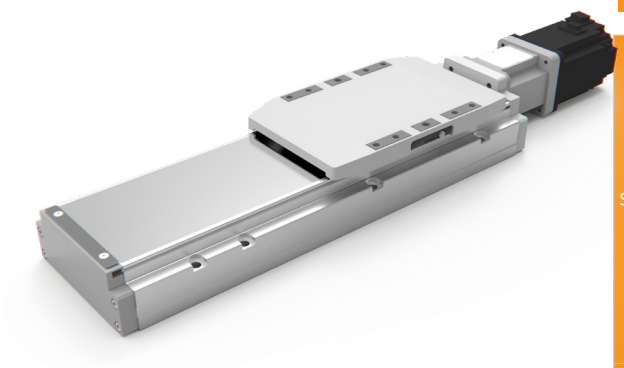
Motor position
- BC: Exposure
- BM: fold down
- BL: fold left
- BR: fold right

Motor brand, power:
- M: Mitsubishi 05 - B
- P: Standard 10 100w
- Y: Yaskawa 20 200W
- T: Delta 40 400W

Origin sensor: Plug-in type
- C Motor side
- D Anti-motor side
- No SENSOR
- E No SENSOR

※stroke 50, the following restrictions apply:
1. C4 and D4 specifications are not available
2. The origin and limit need to be placed on different sides
3. Sensor plates need to be installed on the left and right sides of the slide

Endpoint limit sensor: Plug-in type
- 3 1 pcs
- 4 2 pcs
- No SENSOR
- 5 No SENSOR



※When the stroke exceeds 750, the screw will be deflected, so please reduce the speed.
※Motor acceleration and deceleration are set to 0.2 seconds.
Note: When using the Panasonic 200W motor, the motor axis is 11; For other brands, the motor axis is 14.

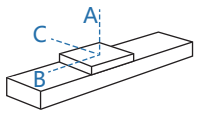
※Basic specifications

Specification	Repeatable positioning accuracy (mm)		±0.01			
	Screw lead (mm)		5	10	20	40
	Max speed (mm/s)		250	500	1000	2000
	Max load (kg)	Horizontal	120	120	83	43
		Vertical	50	40	25	12
	Rated thrust (N)		2563	1281	640	320
	Standard stroke (mm)		100-1350mm/50Interval			
Component	AC servo motor capacity (W)		750W			
	Screw outer diameter (mm)		C7φ20			
	Coupling (mm)		12×19			
	Origin sensor	Plug	EE-SX674(NPN)			

※Allowable load torque table

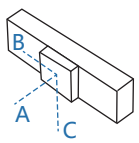
※Allowable load torque table

(Unit : mm)



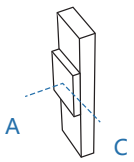
Horizontal installation		A	B	C
Lead05	70kg	1800	329	380
	90kg	1637	233	302
	120kg	1120	140	210
Lead10	65kg	1611	318	353
	85kg	1180	232	236
	120kg	680	154	162
Lead20	35kg	1150	392	518
	55kg	713	235	308
	83kg	470	190	204
Lead40	15kg	760	680	538
	22kg	500	396	320
	43kg	260	231	210

(Unit : mm)



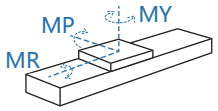
Side installation		A	B	C
Lead05	70kg	226	223	1920
	90kg	251	253	1707
	120kg	180	160	1210
Lead10	65kg	286	338	1760
	86kg	198	252	1330
	120kg	136	174	750
Lead20	35kg	410	422	1260
	55kg	250	265	803
	83kg	162	210	520
Lead40	15kg	450	721	810
	22kg	266	421	530
	43kg	172	251	280

(Unit : mm)



Vertical installation		A	C
Lead5	20kg	1168	1168
	30kg	811	81
	50kg	510	510
Lead10	15kg	1311	1311
	25kg	750	750
	40kg	507	507
Lead20	10kg	1602	1602
	14kg	987	987
	25kg	620	620
Lead40	7kg	1100	1100
	12kg	620	620
	-	-	-

(Unit : N.m)

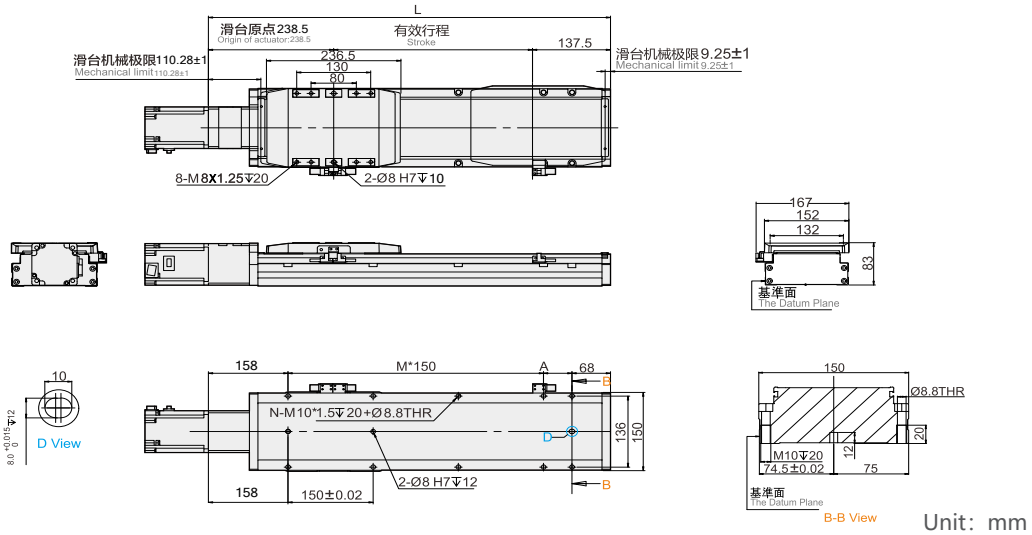


MY	886
MP	826
MR	1500

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor exposure

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.

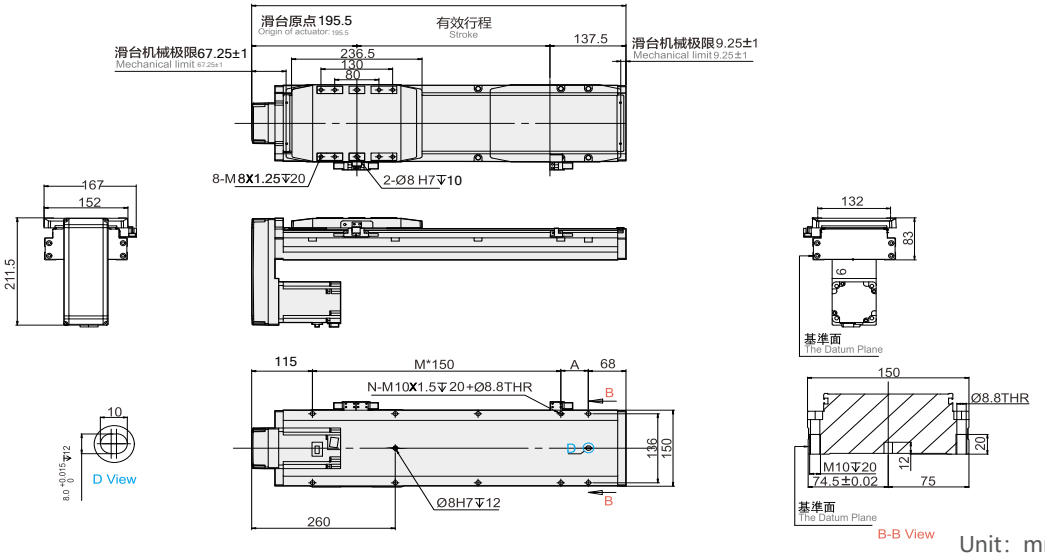


Unit: mm

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
L	476	526	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526	1576	1626	1676	1726
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22
KG	10.02	10.79	11.57	12.34	13.11	13.88	14.65	15.42	16.19	16.96	17.73	18.50	19.28	20.05	20.82	21.59	22.36	23.13	23.90	24.67	25.44	26.21	26.98	27.75	28.52	29.29

Motor folds down

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.



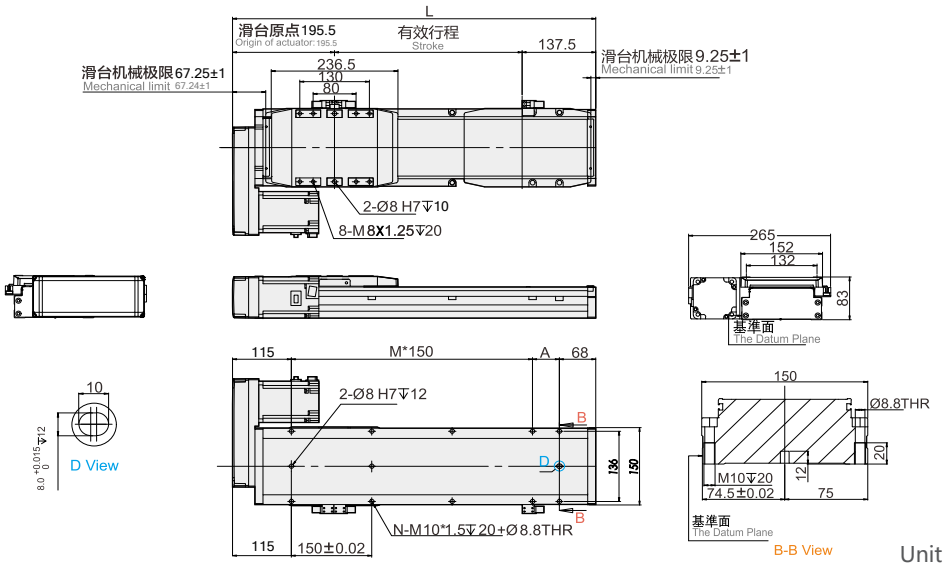
Unit: mm

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
L	433	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	1333	1383	1433	1483	1533	1583	1633	1683
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22
KG	10.30	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.40	24.18	24.95	25.72	26.49	27.26	28.03	28.80	29.57

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Motor folds left

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.

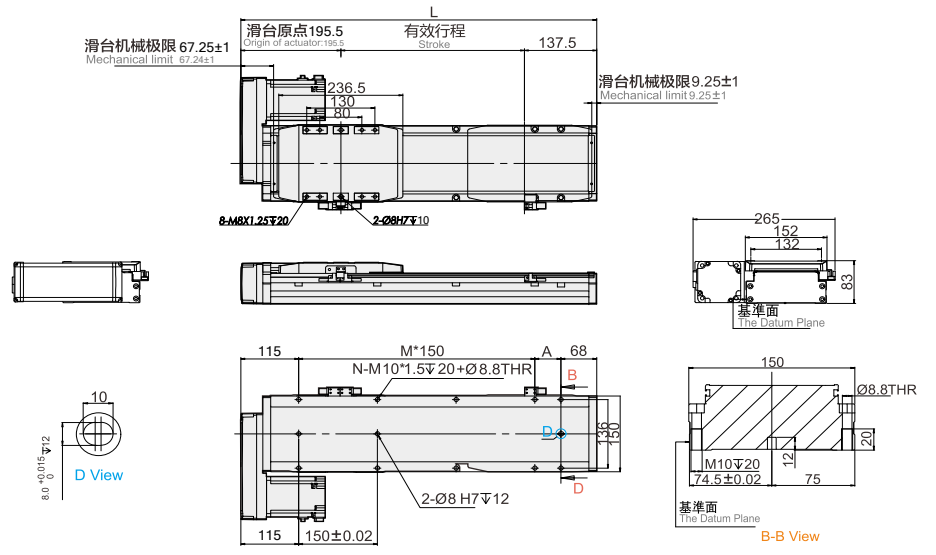


Unit: mm

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
L	433	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	1333	1383	1433	1483	1533	1583	1633	1683
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22
KG	10.30	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.40	24.18	24.95	25.72	26.49	27.26	28.03	28.80	29.57

Motor folds right

At the 50th stroke, due to the fact that the locking fixing hole of the main body will be covered by the sliding seat, only 4 screws can be used for fixing. It is recommended that the customer use the lower locking fixing hole to lock the main body.



Unit: mm

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
L	433	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	1333	1383	1433	1483	1533	1583	1633	1683
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22
KG	10.30	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	1724	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.40	24.18	24.95	25.72	26.49	27.26	28.03	28.80	29.57

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

07 >>>

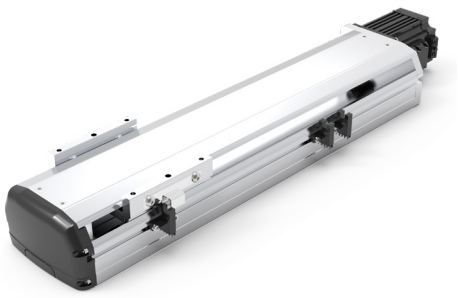
P Series slide table module



PTH10

PTH10 - L 5 - 100 - BC - M20 - B - C 4 - 0001

- **Model**
- **Screw brand** L Standard
- **Screw lead(mm) :** P05 : 5mm; P10 : 10mm; P16 : 16mm; P20 : 20mm
- **Stroke** 100-1050mm, 50mm interval
- **Motor position** BC : Exposure; BR : Fold right; BL : Fold left
- Motor brand, power: M: Mitsubishi (10 -, 20 200W, 40 400W, 75 -); P: Standard; Y: Yaskawa; T: Delta
- Brake B: With brakes. If there are no brakes, it does not indicate
- **Origin sensor: Built-in type** A Motor side; B Anti-motor side; Plug-in type C Motor side; D Anti-motor side; **No SENSOR** E No SENSOR
- Endpoint limit sensor: Built-in type 1 1 pcs; 2 2 pcs; Plug-in type 3 1 pcs; 4 2 pcs; No SENSOR 5 No SENSOR
- 01:Single slider; 02:Double slider; Not indicated:Single slider



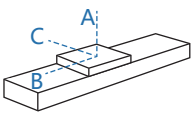
When the travel exceeds 600, there will be screw deflection. Please refer to the motor acceleration and deceleration setting on page 16 of the catalog for 0.2 seconds

※ Basic specifications

Specification	Standard motor power (W)		200W		
	Repeatable positioning accuracy (mm)		±0.01		
	Screw specification		1605	1610	1616	1620
	Max speed (mm/s)		250	500	800	1000
	Rated thrust (N)		683	341	213	174
	Max load (kg)	Horizontal	50	30	22	18
		Vertical	12	8	5	3
	Max stroke (mm)		1050			
Component	Screw specification		1605/1610/1616/1620(Slenderness ratio1:62.5)			
	Screw grade		C7 rolling			
	High rigidity linear slider		W20×H18			
	Coupling		34-27-10-14			
	Photoelectric switch		PM-T45(NPN)			

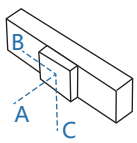
※ Allowable load torque table

(Unit : mm)



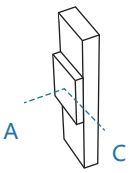
Horizontal installation		A	B	C
Lead 05	30kg	547	42	42
	40kg	391	29	29
	50kg	298	22	22
Lead10	15kg	521	84	80
	25kg	298	47	44
	30kg	242	34	35
Lead16	5kg	937	282	259
	10kg	487	121	116
	22kg	236	40	44
Lead20	5kg	675	224	193
	10kg	330	107	93
	18kg	175	55	48

(Unit : mm)



Side installation		A	B	C
Lead05	25kg	52	53	670
	35kg	35	45	455
	50kg	21	22	298
Lead10	10kg	124	131	770
	20kg	58	61	382
	30kg	35	37	242
Lead16	5kg	116	58	605
	10kg	24	26	253
	22kg	0	0	0
Lead20	6kg	160	185	562
	12kg	76	88	272
	18kg	48	55	175

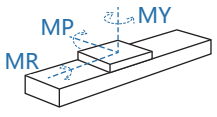
(Unit : mm)



Vertical installation		A	C
Lead05	5kg	310	310
	8kg	192	192
	12kg	129	129
Lead10	4kg	335	335
	6kg	220	220
	8kg	172	172
Lead16	1kg	620	620
	2kg	680	680
	5kg	310	310
Lead20	1kg	580	580
	2kg	645	645
	3kg	310	310

※Static allowable load inertia

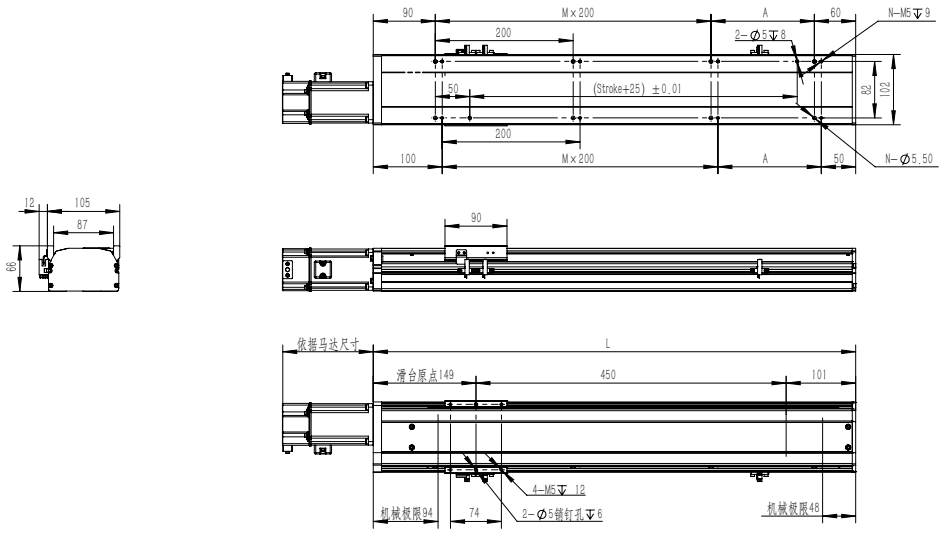
(Unit : N.m)



MY	110
MP	110
MR	120

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor exposure-01



(Unit : mm)

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.5	5.8	6.2	6.6	7	7.4	7.8	8.2	8.5	8.9	9.3	9.7	10.1	10.5	10.9	11.2	11.6	12	12.4	12.8

Motor folds right-01



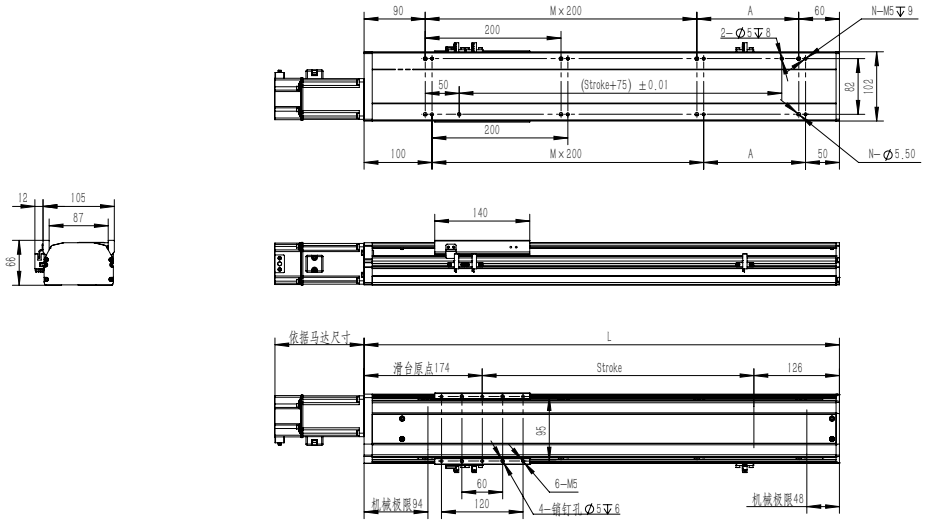
(Unit : mm)

Note: The left fold of the motor is symmetrical with this figure

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	329.5	379.5	429.5	479.5	529.5	579.5	629.5	679.5	729.5	779.5	829.5	879.5	929.5	979.5	1029.5	1079.5	1129.5	1179.5	1229.5	1279.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	5.5	5.8	6.2	6.6	7	7.4	7.8	8.2	8.5	8.9	9.3	9.7	10.1	10.5	10.9	11.2	11.6	12	12.4	12.8

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

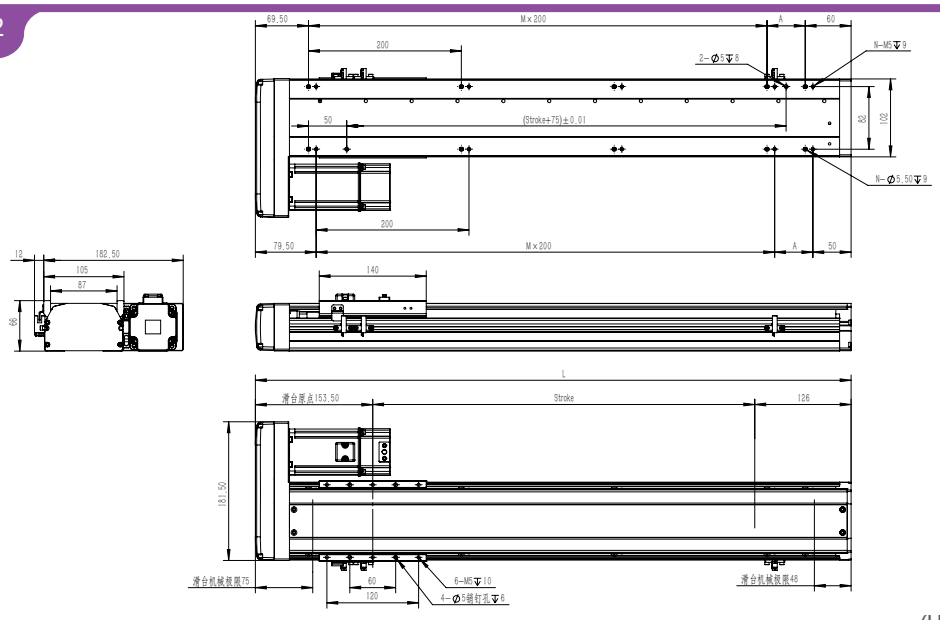
Motor exposure-02



(Unit : mm)

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	5.8	6.2	6.6	7	7.4	7.8	8.2	8.5	8.9	9.3	9.7	10.1	10.5	10.9	11.2	11.6	12	12.4	12.8	13.2

Motor folds right-02



Note: The left fold of the motor is symmetrical with this figure

(Unit : mm)

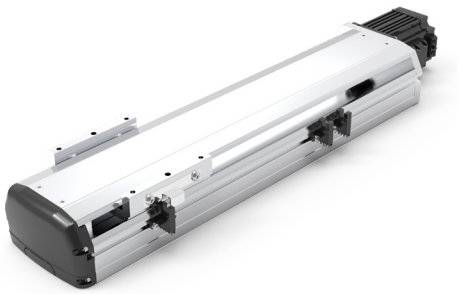
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	379.5	429.5	479.5	529.5	579.5	629.5	679.5	729.5	779.5	829.5	879.5	929.5	979.5	1029.5	1079.5	1129.5	1179.5	1229.5	1279.5	1329.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	5.8	6.2	6.6	7	7.4	7.8	8.2	8.5	8.9	9.3	9.7	10.1	10.5	10.9	11.2	11.6	12	12.4	12.8	13.2

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

PTH12

PTH12 - L 16 - 100 - BC - M20 - B - C 4 - 0001

- **Model**
- **Screw brand** L Standard
- **Screw lead(mm) :** P05 : 5mm; P10 : 10mm; P16 : 16mm; P20 : 20mm
- **Stroke** 100-1050mm, 50mm interval
- Motor position: BC: Exposure; BM: Fold down; BR: Fold right; BL: Fold left
- Motor brand, power: M: Mitsubishi; P: Standard; Y: Yaskawa; T: Delta — 10 -; 20 200W; 40 400W; 75 -
- Brake: B: With brakes; If there are no brakes, it does not indicate
- **Origin sensor: Built-in type** A Motor side; B Anti-motor side; Plug-in type C Motor side; D Anti-motor side; **No SENSOR** E No SENSOR
- Endpoint limit sensor: Built-in type 1 1 pcs; 2 2 pcs; Plug-in type 3 1 pcs; 4 2 pcs; No SENSOR 5 No SENSOR
- Special specification



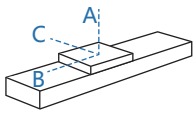
When the travel exceeds 700, there will be screw deflection. Please refer to the motor acceleration and deceleration setting on page 16 of the catalog for 0.2 seconds

※ Basic specifications

Specification	Standard motor power (W)		200W		
	Repeatable positioning accuracy (mm)		±0.01		
	Screw specification		1605	1610	1616	1620
	Max speed (mm/s)		250	500	800	1000
	Rated thrust (N)		683	341	218	170
	Max load (kg)	Horizontal	50	30	22	18
		Vertical	12	8	5	3
	Max stroke (mm)		1050			
Component	Screw specification		1605/1610/1616/1620((Slenderness ratio1:62.5)			
	Screw grade		C7rolling			
	High rigidity linear slider		W12×H7.5			
	Coupling		34-27-10-14			
	Photoelectric switch		PM-T45(NPN)			

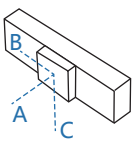
※ Allowable load torque table

(Unit : mm)



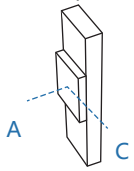
Horizontal installation		A	B	C
Lead 05	30kg	882	65	78
	40kg	606	43	51
	50kg	437	29	35
Lead 10	15kg	875	138	157
	25kg	485	73	83
	30kg	386	56	64
Lead 16	5kg	2150	1365	982
	10kg	1190	462	427
	22kg	1270	242	291
Lead 20	5kg	1160	384	386
	10kg	516	180	181
	18kg	288	88	99

(Unit : mm)



Side installation		A	B	C
Lead 05	10kg	126	60	800
	20kg	70	30	600
	30kg	50	15	476
Lead 10	10kg	246	180	700
	20kg	150	80	515
	30kg	72	32	422
Lead 16	5kg	1068	976	1579
	10kg	405	278	776
	22kg	220	107	680
Lead 20	5kg	958	875	1420
	10kg	361	248	696
	15kg	107	95	610

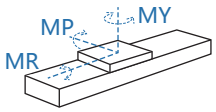
(Unit : mm)



Vertical installation		A	C
Lead 05	5kg	412	398
	10kg	394	356
	12kg	357	355
Lead 10	4kg	711	578
	6kg	534	414
	8kg	411	376
Lead 16	1kg	1210	1210
	2kg	1174	1174
	5kg	650	650
Lead 20			
	3kg	1030	802

※Static allowable load inertia

(Unit : N.m)

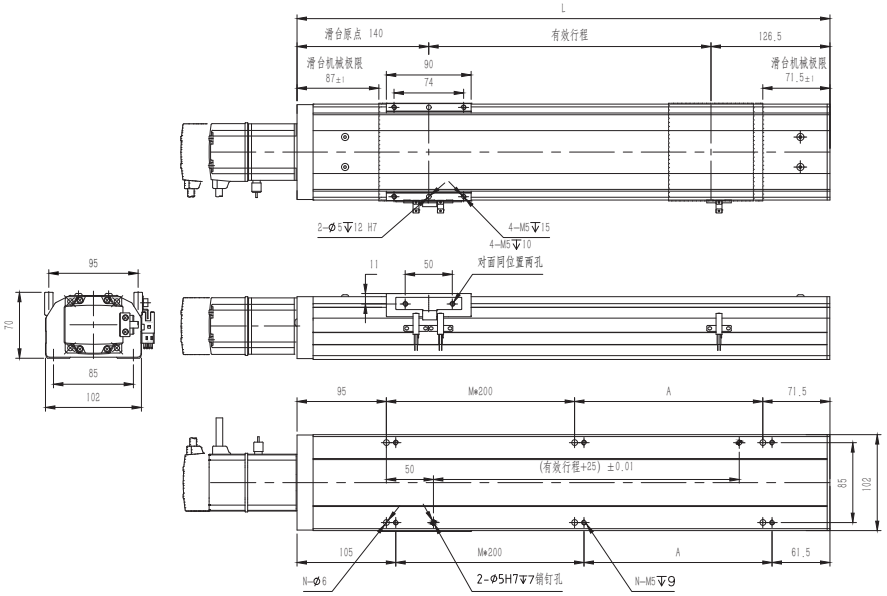


MY	110
MP	110
MR	120

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor exposure-01

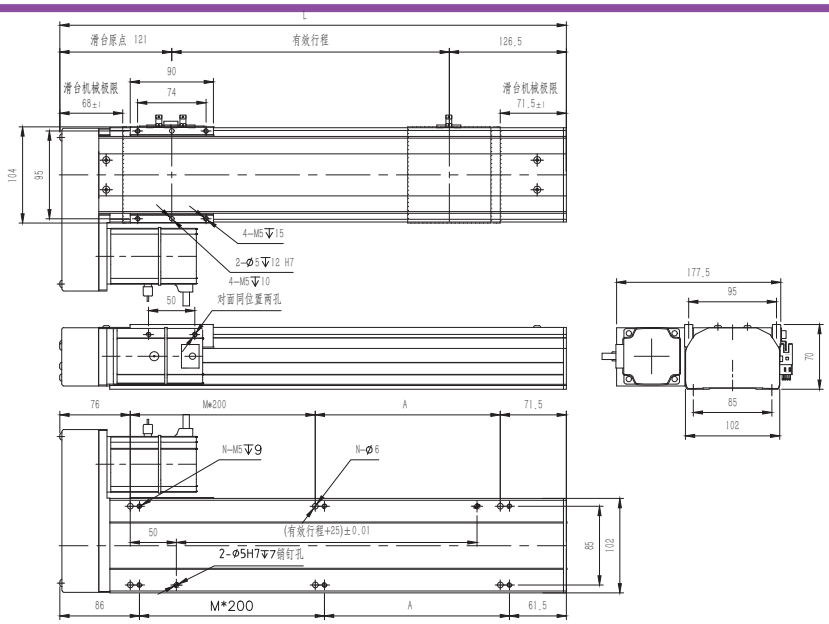
（单位：mm）



(Unit : mm)

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	366.5	416.5	466.5	516.5	566.5	616.5	666.5	716.5	766.5	816.5	866.5	916.5	966.5	1016.5	1066.5	1116.5	1166.5	1216.5	1266.5	1316.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	6.6	7	7.4	8.8	8.2	8.6	9	9.4	9.7	10.1	10.5	10.9	11.3	11.7	12.1	12.4	12.8	13.2	13.6	14

Motor folds left



Note: The right fold of the motor is symmetrical with this figure

(Unit : mm)

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.7	797.5	847.5	897.5	947.5	997.5	1047.5	1097.5	1147.5	1197.5	1247.5	1297.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	6.6	7	7.4	8.8	8.2	8.6	9	9.4	9.7	10.1	10.5	10.9	11.3	11.7	12.1	12.4	12.8	13.2	13.6	14

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

PTH13

PTH13 - L 5 - 100 - BC - M40 - B - C 4 - 0001

Model

Screw brand
L Standard

Screw lead(mm) :
P05 : 5mm
P10 : 10mm
P16 : 16mm
P20 : 20mm

Stroke
100-1050mm
50mm interval

Motor position
BC: Exposure
BM: Fold down
BR: Fold right
BL: Fold left

Motor brand, power:

M:	Mitsubishi	10	-
P:	Standard	20	200W
Y:	Yaskawa	40	400W
T:	Delta	75	-

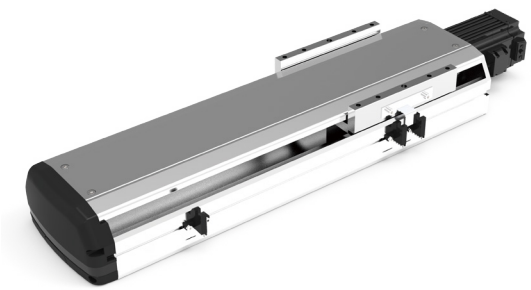
Brake
B: With brakes
If there are no brakes, it does not indicate

Origin sensor:
Built-in type
A Motor side
B Anti-motor side
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR

Endpoint limit sensor:
Built-in type
1 1 pcs
2 2 pcs
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR

Special specification

※ Basic specifications

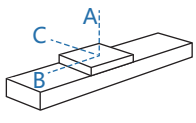


When the travel exceeds 600, there will be screw deflection. Please refer to the motor acceleration and deceleration setting on page 16 of the catalog for 0.2 seconds

Specification	Standard motor power (W)		400W		
	Repeatable positioning accuracy (mm)		±0.01		
	Screw specification		1605	1610	1616	1620
	Max speed (mm/s)		250	500	800	1000
	Rated thrust (N)		1318	694	433	347
	Max load (kg)	Horizontal	70	47	30	24
		Vertical	17	12	6	4
	Max stroke (mm)		1050			
Component	Screw specification		1605/1610/1616/1620(Slenderness ratio1:62.5)			
	Screw grade		C7rolling			
	High rigidity linear slider		W15×H12.5			
	Coupling		34-27-10-14			
	Photoelectric switch		PM-T45(NPN)			

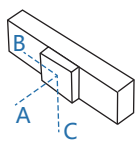
※ Allowable load torque table

(Unit : mm)



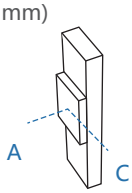
Horizontal installation		A	B	C
Lead 05	40kg	795	63	225
	55kg	558	43	155
	70kg	422	32	115
Lead 10	25kg	588	95	276
	35kg	410	65	190
	47kg	295	46	135
Lead 16	10kg	1800	1400	800
	20kg	1100	700	450
	30kg	1047	445	324
Lead 20	5kg	1068	355	710
	15kg	416	136	275
	24kg	252	81	166

(Unit : mm)



Side installation		A	B	C
Lead 05	30kg	310	88	1068
	50kg	172	49	620
	70kg	115	32	422
Lead 10	20kg	351	122	743
	30kg	225	78	484
	47kg	135	46	294
Lead 16	10kg	461	372	1410
	20kg	264	178	1027
	30kg	148	69	832
Lead 20	5kg	852	428	1227
	12kg	345	173	522
	24kg	166	81	253

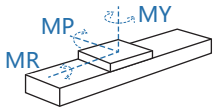
(Unit : mm)



Vertical installation		A	C
Lead 05	5kg	580	580
	11kg	264	264
	17kg	170	170
Lead 10	4kg	644	644
	8kg	322	322
	12kg	215	215
Lead 16	2kg	997	997
	5kg	398	398
	10kg	199	199
Lead 20	3kg	667	667
	6kg	335	335
	-	-	-

※Static allowable load inertia

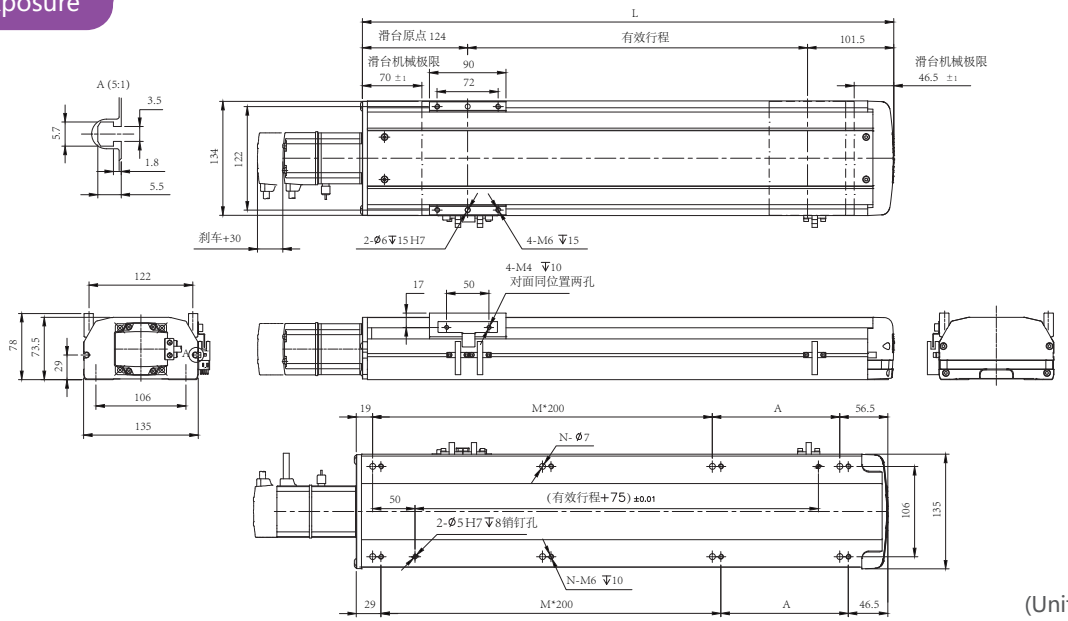
(Unit : N.m)



MY	174
MP	175
MR	153

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

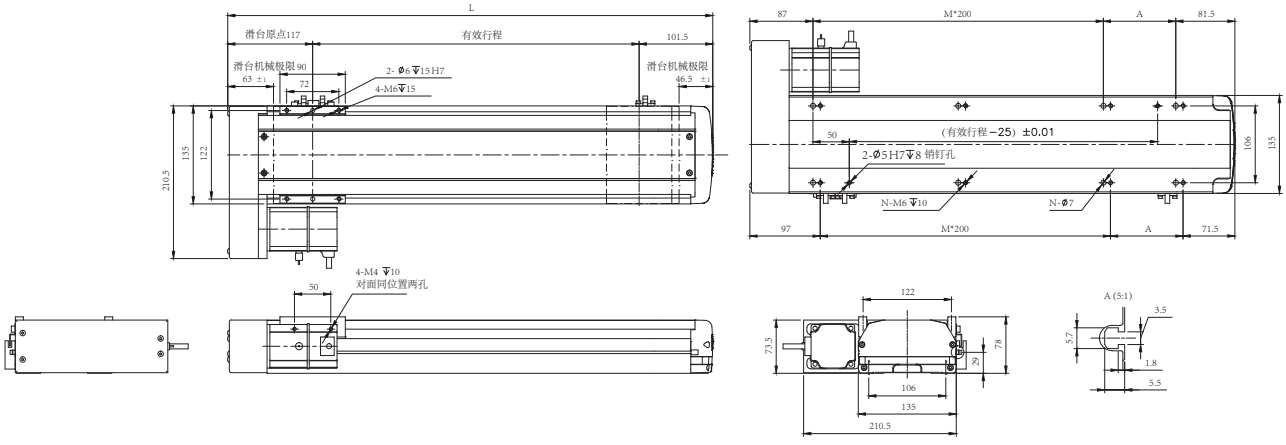
Motor exposure



(Unit : mm)

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	325.5	375.5	425.5	475.5	525.5	575.5	625.5	675.5	725.5	775.5	825.5	875.5	925.5	975.5	1025.5	1075.5	1125.5	1175.5	1225.5	1275.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	7.4	7.8	8.3	8.8	9.3	9.8	10.2	10.8	11.2	11.8	12.2	12.7	13.2	13.7	14.2	14.7	15.2	15.7	16.1	16.7

Motor folds left



Note: The right fold of the motor is symmetrical with this figure

(Unit : mm)

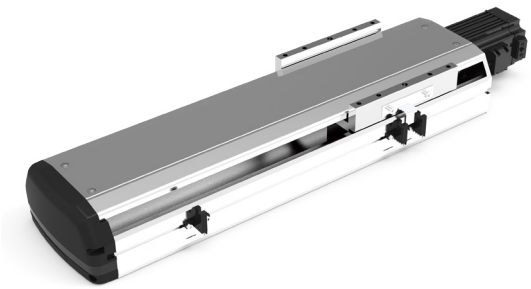
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	7.4	7.8	8.3	8.8	9.3	9.8	10.2	10.8	11.2	11.8	12.2	12.7	13.2	13.7	14.2	14.7	15.2	15.7	16.1	16.7

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

PTH14

PTH14 - L 5 - 100 - BC - M40 - B - C 4 - 0001

- **Model**
- **Screw brand** L Standard
- **Screw lead(mm) :** P05 : 5mm; P10 : 10mm; P16 : 16mm; P20 : 20mm
- **Stroke** 100-1050mm, 50mm interval
- Motor position: BC: Exposure; BM: Fold down; BR: Fold right; BL: Fold left
- Motor brand, power: M: Mitsubishi (10 -); P: Standard (20 200W); Y: Yaskawa (40 400W); T: Delta (75 -)
- **Brake** B: With brakes. If there are no brakes, it does not indicate
- **Origin sensor: Built-in type** A Motor side; B Anti-motor side. Plug-in type C Motor side; D Anti-motor side. **No SENSOR** E No SENSOR
- **Endpoint limit sensor:** Built-in type 1 1 pcs; 2 2 pcs. Plug-in type 3 1 pcs; 4 2 pcs. No SENSOR 5 No SENSOR
- Special specification



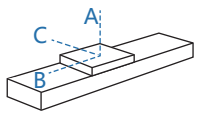
When the travel exceeds700, there will be screw deflection. Please refer to the motor acceleration and deceleration setting on page 16 of the catalog for 0.2 seconds

※ Basic specifications

Specification	Standard motor power (W)		400W		
	Repeatable positioning accuracy (mm)		±0.01		
	Screw specification		1605	1610	1616	1620
	Max speed (mm/s)		250	500	800	1000
	Rated thrust (N)		1388	694	433	347
	Max load (kg)	Horizontal	110	88	48	40
		Vertical	33	22	10	8
	Max stroke (mm)		1050			
Component	Screw specification		1605/1610/1616/1620(Slenderness ratio1:62.5)			
	Screw grade		C7 rolling			
	High rigidity linear slider		W15×H12.5			
	Coupling		34-27-10-14			
	Photoelectric switch		PM-T45(NPN)			

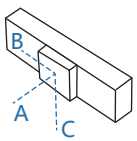
※ Allowable load torque table

(Unit : mm)



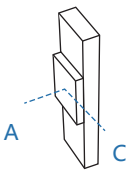
Horizontal installation		A	B	C
Lead 05	60kg	2512	242	232
	80kg	1811	172	164
	110kg	1284	114	108
Lead 10	30kg	2727	470	430
	50kg	1577	266	242
	88kg	854	134	122
Lead 16	10kg	2265	1674	961
	20kg	1402	855	537
	48kg	1047	445	324
Lead 20	10kg	2304	1222	1028
	22kg	1443	540	451
	40kg	860	277	233

(Unit : mm)



Side installation		A	B	C
Lead 05	55kg	257	269	2883
	75kg	178	186	2000
	110kg	108	114	1284
Lead 10	35kg	363	395	2368
	55kg	218	238	1445
	88kg	123	134	854
Lead16	10kg	461	372	1410
	20kg	264	178	1027
	48kg	148	69	832
Lead20	12kg	854	1019	2552
	20kg	500	596	1588
	40kg	233	277	860

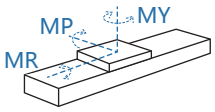
(Unit : mm)



Vertical installation		A	C
Lead05	15kg	1118	1118
	22kg	770	770
	33kg	513	513
Lead10	10kg	1500	1500
	15kg	1000	1000
	22kg	682	682
Lead16	2kg	1067	1067
	4kg	997	997
	10kg	747	747
Lead20	7kg	1700	1700
	10kg	1188	1188
	-	-	-

※Static allowable load inertia

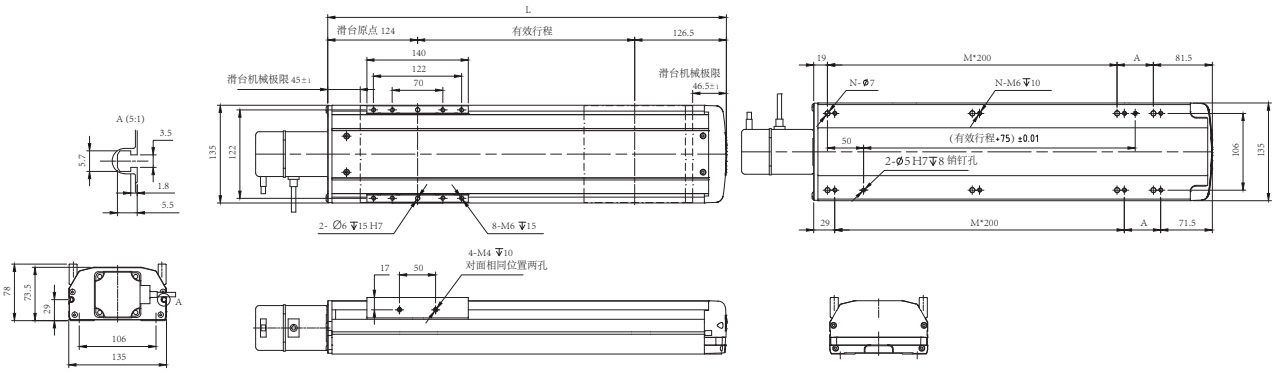
(Unit : N.m)



MY	551
MP	552
MR	485

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

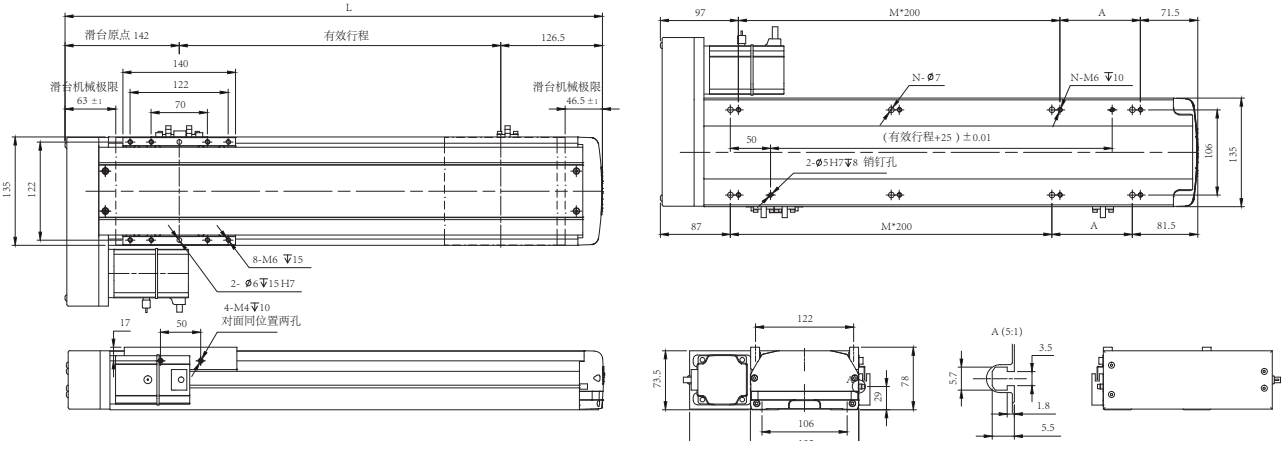
Motor exposure



(Unit : mm)

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5	1050.5	1100.5	1150.5	1200.5	1250.5	1300.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	7.6	8	8.5	9	9.5	10	10.4	11	11.4	12	12.4	12.9	13.4	13.9	14.4	14.9	15.4	15.9	16.3	16.9

Motor folds left



Note: The right fold of the motor is symmetrical with this figure

(Unit : mm)

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5	768.5	818.5	868.5	918.5	968.5	1018.5	1068.5	1118.5	1168.5	1218.5	1268.5	1318.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
KG	7.6	8	8.5	9	9.5	10	10.4	11	11.4	12	12.4	12.9	13.4	13.9	14.4	14.9	15.4	15.9	16.3	16.9

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

PTH17

PTH17 - L 5 - 100 - BC - M75 - B - C 4 - 0001

Model

Screw brand
L Standard

Screw lead(mm) :
P05 : 5mm
P10 : 10mm
P20 : 20mm
P40 : 40mm

Stroke
100-1250mm
50mm interval

Motor position
BC: Exposure
BM: Fold down
BR: Fold right
BL: Fold left

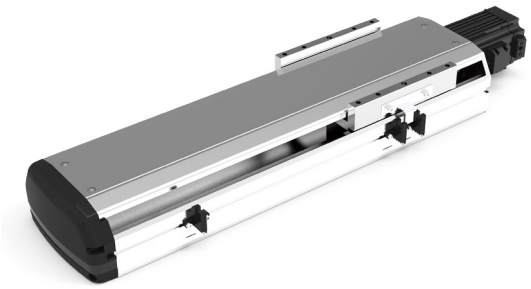
Motor brand, power:
M: Mitsubishi 10 -
P: Standard 20 200W
Y: Yaskawa 40 400W
T: Delta 75 -

Origin sensor:
Built-in type
A Motor side
B Anti-motor side
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR

Brake
B: With brake
If there are no brakes, it does not indicate

Special specification

Endpoint limit sensor:
Built-in type
1 1 pcs
2 2 pcs
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR



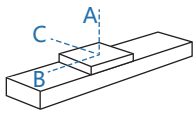
When the travel exceeds700, there will be screw deflection. Please refer to the motor acceleration and deceleration setting on page 16 of the catalog for 0.2 seconds

※ Basic specifications

Specification	Standard motor power (W)		750W		
	Repeatable positioning accuracy (mm)		±0.01		
	Screw specification		2005	2010	2020	2040
	Max speed (mm/s)		250	500	1000	2000
	Rated thrust (N)		2563	1281	640	320
	Max load (kg)	Horizontal	120	95	83	43
		Vertical	50	40	25	12
	Max stroke (mm)		1250			
Component	Screw specification		2005/2010/2020/2040(Slenderness ratio1： 70)			
	Screw grade		C7rolling			
	High rigidity linear slider		W20×H15			
	Coupling		44-34-12-19			
	Photoelectric switch		PM-T45(NPN)			

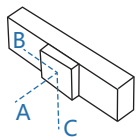
※ Allowable load torque table

(Unit : mm)



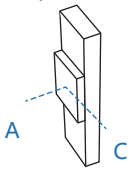
Horizontal installation		A	B	C
Lead 05	70kg	3235	349	408
	90kg	2482	263	306
	120kg	1861	187	218
Lead 10	65kg	1911	338	373
	85kg	1445	248	276
	120kg	1000	164	182
Lead 20	35kg	1666	547	538
	55kg	1030	331	328
	83kg	654	206	204
Lead 40	15kg	1126	740	577
	22kg	755	491	384
	43kg	366	231	183

(Unit : mm)



Side installation		A	B	C
Lead 05	75kg	377	322	2988
	95kg	288	246	2333
	120kg	218	187	1850
Lead 10	60kg	408	368	2092
	80kg	296	266	1554
	120kg	182	164	1002
Lead 20	30kg	633	644	1961
	50kg	365	369	1143
	83kg	204	206	656
Lead 40	12kg	729	936	1417
	22kg	384	491	755
	43kg	183	231	366

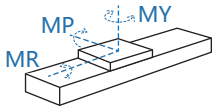
(Unit : mm)



Vertical installation		A	C
Lead 05	20kg	1368	1368
	30kg	911	911
	50kg	546	546
Lead 10	15kg	1618	1618
	25kg	970	970
	40kg	607	607
Lead 20	10kg	1922	1922
	14kg	1377	1377
	25kg	769	769
Lead 40	7kg	1356	1356
	12kg	790	790
	-	-	-

※Static allowable load inertia

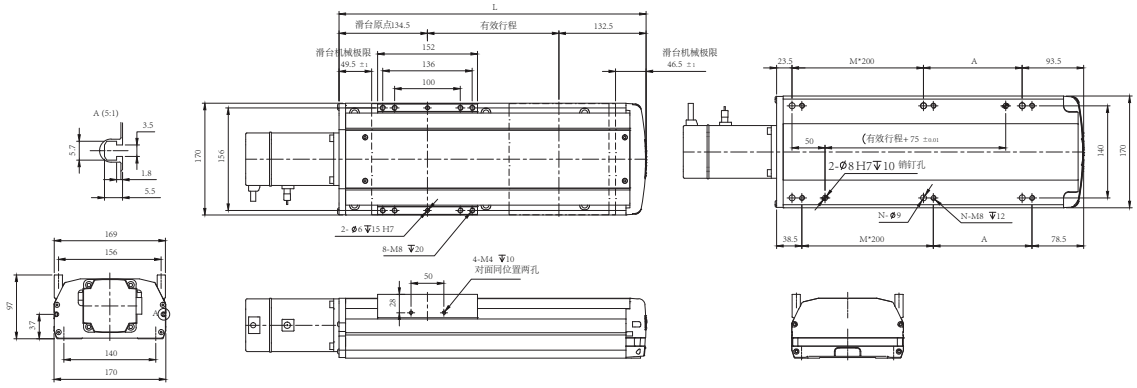
(Unit : N.m)



MY	1032
MP	1034
MR	908

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

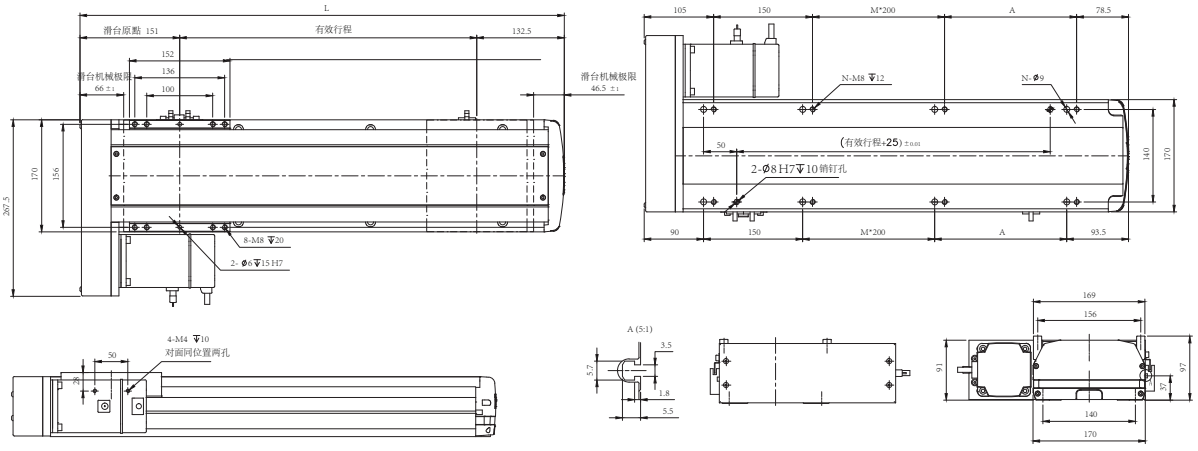
Motor exposure



(Unit : mm)

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	11.8	12.6	13.4	14.2	14.9	15.7	16.5	17.3	18	18.8	19.6	20.4	21.1	21.9	22.7	23.5	24.2	25	25.8	26.6	27.4	28.2	29	29.8

Motor folds left



Note: The right fold of the motor is symmetrical with this figure

(Unit : mm)

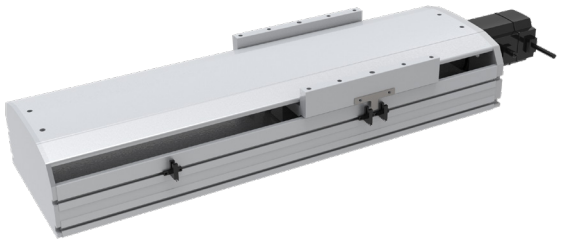
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	1233.5	1283.5	1333.5	1383.5	1433.5	1483.5	1533.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	11.8	12.6	13.4	14.2	14.9	15.7	16.5	17.3	18	18.8	19.6	20.4	21.1	21.9	22.7	23.5	24.2	25	25.8	26.6	27.4	28.2	29	29.8

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

PTH22

PTH22 - L 5 - 100 - BC - M75 B - C 4 - 0001

- **Model**
- **Screw brand** L Standard
- **Screw lead(mm) :** P05 : 5mm; P10 : 10mm; P25 : 25mm
- **Stroke** 50-1500mm, 50mm interval
- Motor position: BC: Exposure; BM: Fold down; BR: Fold right; BL: Fold left
- Motor brand, power: M: Mitsubishi; P: Standard; Y: Yaskawa; T: Delta — 10 - 20 - 40 - 75 750W
- Brake: B: With brakes; If there are no brakes, it does not indicate
- **Origin sensor: Built-in type** A Motor side; B Anti-motor side; Plug-in type C Motor side; D Anti-motor side; **No SENSOR** E No SENSOR
- Endpoint limit sensor: Built-in type 1 1 pcs; 2 2 pcs; Plug-in type 3 1 pcs; 4 2 pcs; No SENSOR 5 No SENSOR
- Special specification



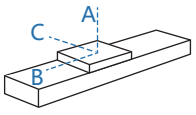
When the travel exceeds 800, there will be screw deflection. Please refer to the motor acceleration and deceleration setting on page 16 of the catalog for 0.2 seconds

※ Basic specifications

Specification	Repeatable positioning accuracy (mm)		±0.01	
	Screw lead (mm)		2505	2510	2525
	Max speed (mm/s)		250	500	1250
	Rated thrust (N)		2563	1281	640
	Max load (kg)	Horizontal	150	150	105
		Vertical	55	45	20
	Standard stroke (mm)		50-1500mm/50 interval		
Component	AC servo motor capacity		750		
	Screw outer diameter		C7Ø25		
	High rigidity linear slider		W23×H18		
	Coupling		17X19		
	Origin sensor	Plug	PM-T45(NPN)		
		Built-in	PM-Y45(NPN)		

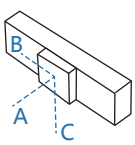
※ Allowable load torque table

(Unit : mm)



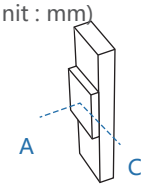
Horizontal installation		A	B	C
Lead 05	100kg	5000	633	557
	125kg	3880	491	431
	150kg	3357	396	347
Lead 10	100kg	3220	563	474
	125kg	2554	434	367
	150kg	2113	349	295
Lead 25	65kg	1522	614	458
	85kg	1136	451	336
	105kg	893	350	262
Lead 40	18kg	2445	1616	1052
	30kg	1436	938	613
	43kg	978	630	412

(Unit : mm)



Side installation		A	B	C
Lead 05	110kg	500	569	4500
	130kg	412	469	3711
	150kg	347	396	3357
Lead 10	110kg	427	503	2900
	130kg	351	414	2444
	150kg	295	349	2113
Lead 25	70kg	420	564	1404
	90kg	315	420	1066
	105kg	262	350	893
Lead 40	15kg	1272	1955	2948
	24kg	778	1190	1813
	43kg	412	630	978

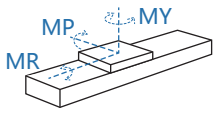
(Unit : mm)



Vertical installation		A	C
Lead 05	30kg	2355	2355
	40kg	1768	1768
	55kg	1288	1288
Lead 10	25kg	2505	2505
	35kg	1795	1795
	45kg	1396	1396
Lead 25	15kg	2711	2711
	20kg	2033	2033
	-	-	-
Lead 40	7kg	3511	3511
	12kg	2055	2055
	-	-	-

※Static allowable load inertia

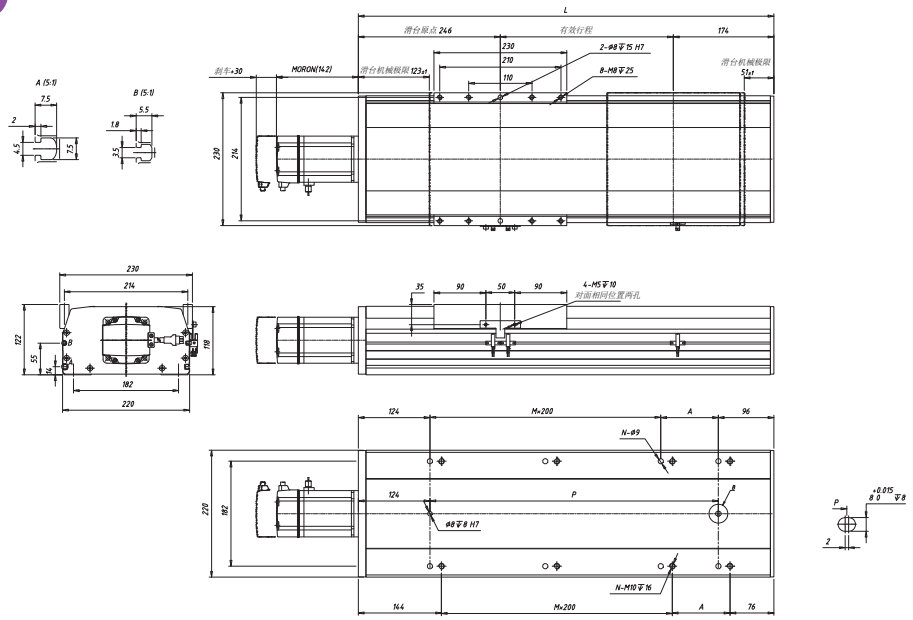
(Unit : N.m)



MY	2052
MP	2052
MR	1810

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

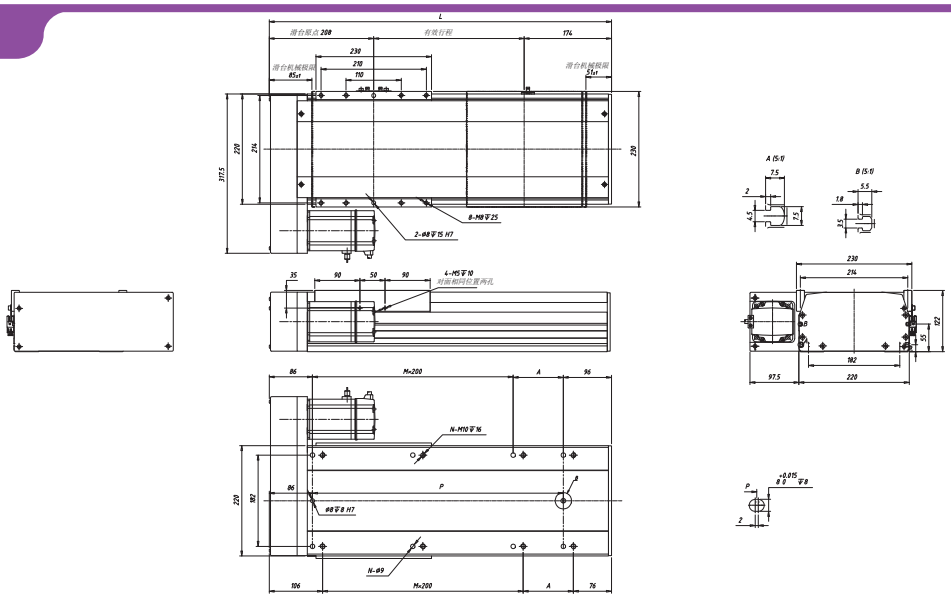
Motor exposure



(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820	1870	1920
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	25.4	26.86	28.32	29.78	31.24	32.7	34.16	35.62	37.08	38.54	40	41.46	42.92	44.38	45.84	47.3	48.76	50.22	51.68	53.14	54.6	56.06	57.52	58.98	60.44	61.9	63.36	64.82	66.28	67.74

Motor folds left



Note: The right fold of the motor is symmetrical with this figure

(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	1432	1482	1532	1582	1632	1682	1732	1782	1832	1882
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	24.2	25.66	27.12	28.58	30.04	31.5	32.96	34.42	35.88	37.34	38.8	40.26	41.72	43.18	44.64	46.1	47.56	49.02	50.48	51.94	53.4	54.86	56.32	57.78	59.24	60.7	62.16	63.62	65.08	66.54

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

PTH27

PTH27 - L 5 - 100 - BC - M100 B - C 4 - 0001

Model

Screw brand
L Standard

Stroke
50-1700mm
50mm interval

Screw lead(mm) :
P05 : 5mm
P10 : 10mm
P20 : 20m
P32 : 32mm

Motor position
BC: Exposure
BR: Fold right
BL: Fold left

Motor brand, power:

M: Mitsubishi	10	-	
P: Standard	20	-	
Y: Yaskawa	40	-	
T: Delta	75	750W	

Brake
B: With brakes
If there are no brakes, it does not indicate

Origin sensor:
Built-in type
A Motor side
B Anti-motor side
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR

Endpoint limit sensor:
Built-in type
1 1 pcs
2 2 pcs
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR

Special specification

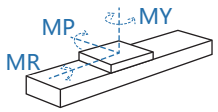
※ Basic specifications

Specification	Standard motor power (W)		1000W			
	Repeatable positioning accuracy (mm)		±0.01			
	Screw specification		3205	3210	3220	3232
	Max speed (mm/s)		166	333	666	1062
	Rated thrust (N)		5100	2550	1275	795
	Max load (kg)	Horizontal	200	200	100	80
		Vertical	100	80	50	40
	Max stroke (mm)		1700			
Component	Screw specification		3205/3210/3220/3232			
	Screw grade		C7rolling			
	High rigidity linear slider		W28×H26			
	Coupling		55-78-22-22(24)			
	Photoelectric switch		PM-T45(NPN)			

When the travel exceeds 900, there will be screw deflection. Please refer to the motor acceleration and deceleration setting on page 16 of the catalog for 0.2 seconds

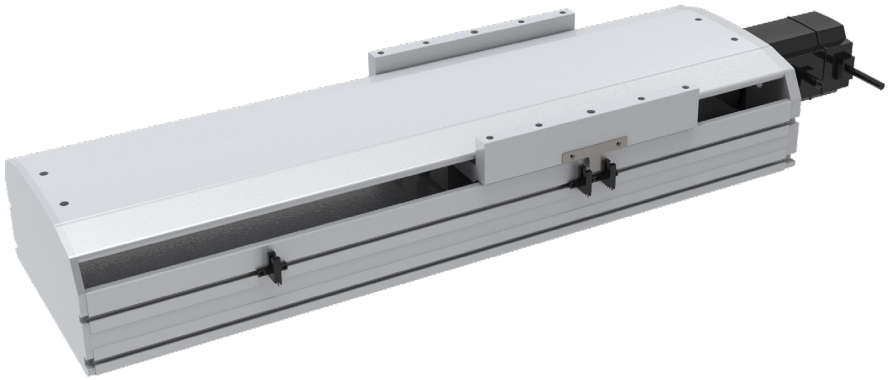
※Static allowable load inertia

(Unit : N.m)

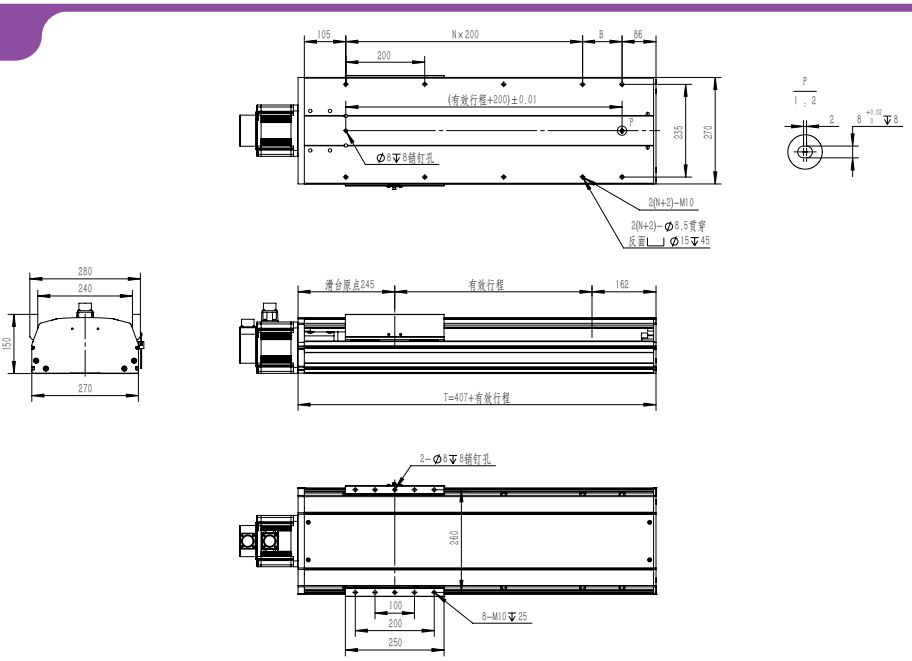


MY	3075(N.M)
MP	3075(N.M)
MR	2715(N.M)

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.



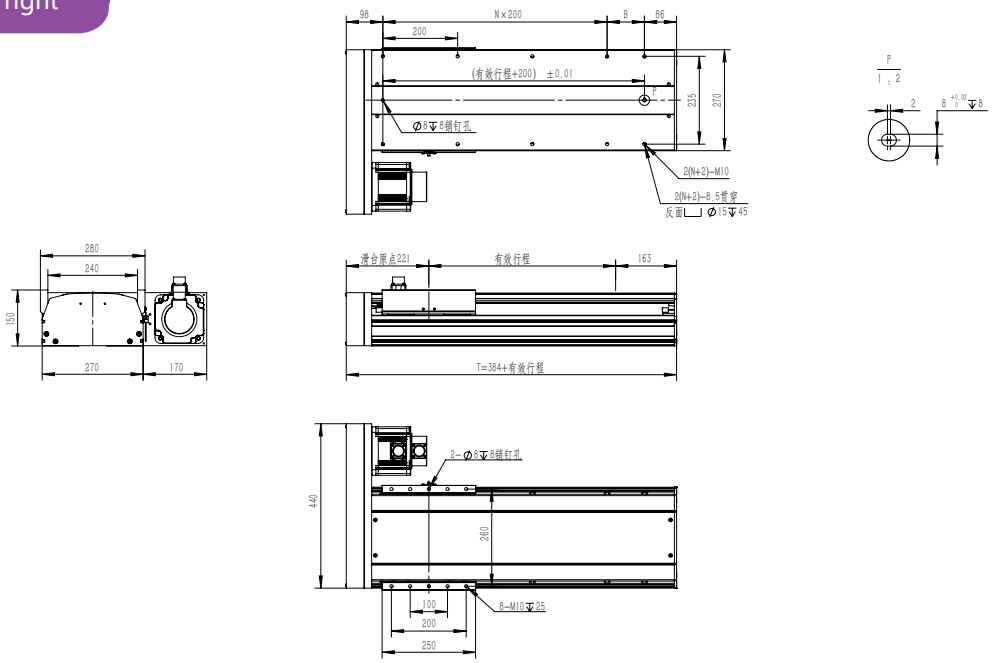
Motor exposure



(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
T	457	507	557	607	657	707	757	807	857	907	957	1007	1057	1107	1157	1207	1257	1307	1357	1407	1457	1507	1557	1607	1657	1707	1757	1807	1857	1907	1957	2007	2057	2107
B	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
N	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9
KG	37.9	40	42.1	44.2	46.3	48.4	50.5	52.6	54.7	56.8	58.9	61	63.1	65.2	67.3	69.4	71.5	73.6	75.7	77.8	79.9	82	84.1	86.2	88.3	90.4	92.5	94.6	96.7	98.8	100.9	103	105.1	107.2

Motor folds right



(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
T	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434	1484	1534	1584	1634	1684	1734	1784	1834	1884	1934	1984	2034	2084
B	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
N	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9
KG	39.3	41.4	43.5	45.6	47.7	49.8	51.9	54	56.1	58.2	60.3	62.4	64.5	66.6	68.7	70.8	72.9	75	77.1	79.2	81.3	83.4	85.5	87.6	89.7	91.8	93.9	96	98.1	100.2	102.3	104.4	106.5	108.6

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

PCH14

PCH14 - L 5 - 100 - BC - M40 - B - C 4 - 0001

Model

Screw brand
L Standard

Screw lead(mm) :
P05 : 5mm
P10 : 10mm
P16 : 16m
P20 : 20mm

Stroke
100-1050mm
50mm interval

Motor position
BC: Exposure
BR: Fold right
BL: Fold left

Motor brand, power:

M:	Mitsubishi	10	-
P:	Standard	20	-
Y:	Yaskawa	40	400W
T:	Delta	75	-

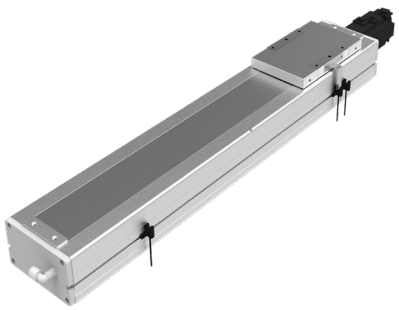
Brake
B: With brakes
If there are no brakes, it does not indicate

Origin sensor:
Built-in type
A Motor side
B Anti-motor side
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR

Endpoint limit sensor:
Built-in type
1 1 pcs
2 2 pcs
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR

Special specification

※ Basic specifications

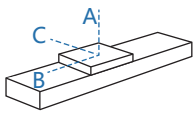


When the travel exceeds 750, there will be screw deflection. Please refer to the motor acceleration and deceleration setting on page 16 of the catalog for 0.2 seconds

Specification	Standard motor power (W)		400W		
	Repeatable positioning accuracy (mm)		±0.01		
	Screw specification		1605	1610	1616	1620
	Max speed (mm/s)		250	500	800	1000
	Rated thrust (N)		1388	694	433	347
	Max load (kg)	Horizontal	95	75	48	35
		Vertical	27	18	10	7
	Max stroke (mm)		1050			
Component	Screw specification		1605/1610/1616/1620(Slenderness ratio1:62.5)			
	Screw grade		C7 rolling			
	High rigidity linear slider		W15×H12.5			
	Coupling		34-27-10-14			
	Photoelectric switch		PM-T45(NPN)			

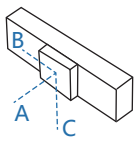
※ Allowable load torque table

(Unit : mm)



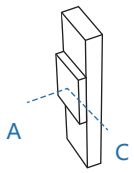
Horizontal installation		A	B	C
Lead 05	60kg	2512	242	232
	80kg	1811	172	164
	110kg	1284	114	108
Lead 10	30kg	2727	470	430
	50kg	1577	266	242
	88kg	854	134	122
Lead 16	10kg	2265	1674	961
	20kg	1402	855	537
	48kg	1047	445	324
Lead 20	10kg	2304	1222	1028
	22kg	1443	540	451
	40kg	860	277	233

(Unit : mm)



Side installation		A	B	C
Lead 05	55kg	257	269	2883
	75kg	178	186	2000
	110kg	108	114	1284
Lead 10	35kg	363	395	2368
	55kg	218	238	1445
	88kg	123	134	854
Lead 16	10kg	461	372	1410
	20kg	264	178	1027
	48kg	148	69	832
Lead 20	12kg	854	1019	2552
	20kg	500	596	1588
	40kg	233	277	860

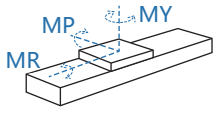
(Unit : mm)



Vertical installation		A	C
Lead 05	15kg	1118	1118
	22kg	770	770
	33kg	513	513
Lead 10	10kg	1500	1500
	15kg	1000	1000
	22kg	682	682
Lead 16	2kg	1067	1067
	4kg	997	997
	10kg	747	747
Lead 20	4kg	1503	1503
	7kg	944	944
	-	-	-

※Static allowable load inertia

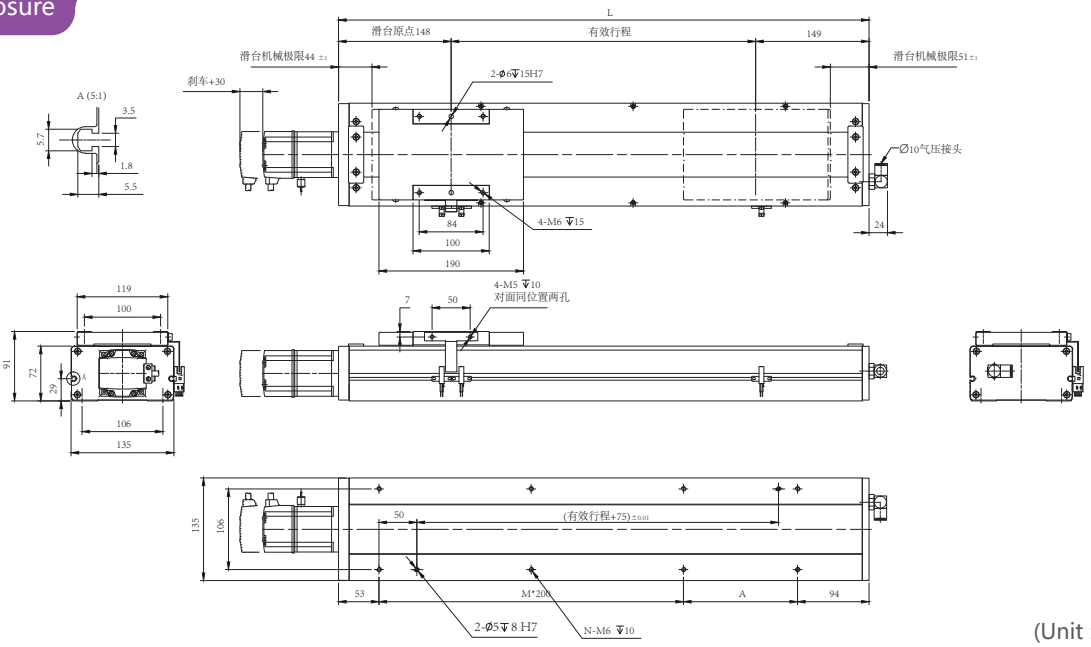
(Unit : N.m)



MY	551
MP	552
MR	485

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

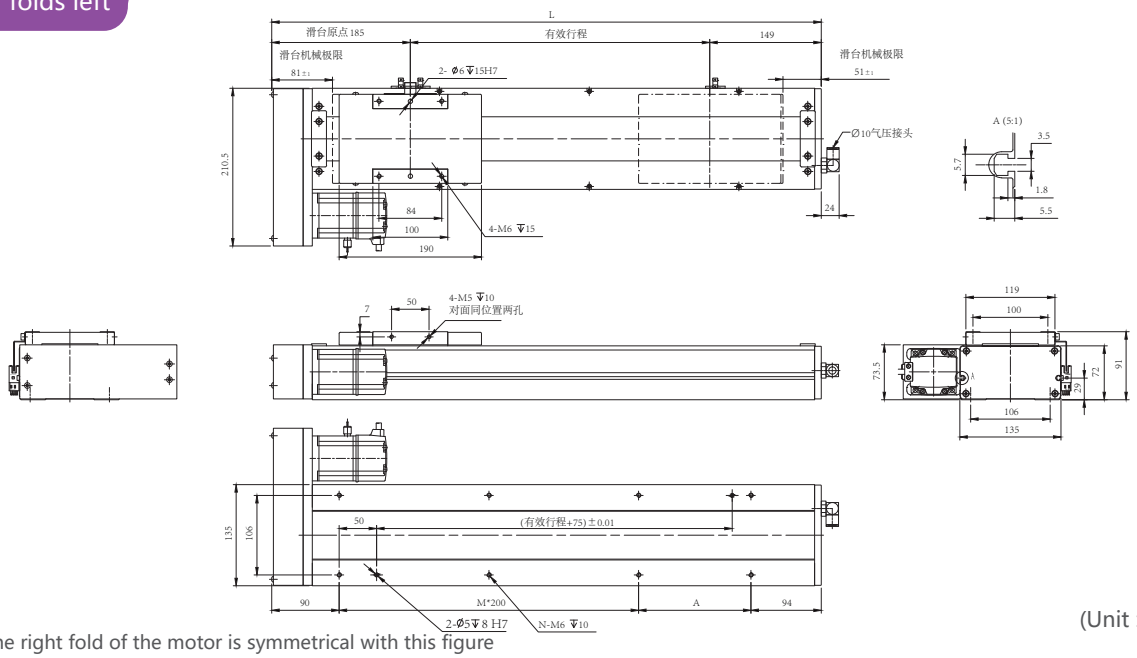
Motor exposure



(Unit : mm)

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	397	447	497	547	597	647	697	747	797	847	897	947	997	1047	1097	1147	1197	1247	1297	1347
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	10.6	11	11.5	12	12.5	13	13.4	14	14.4	15	15.4	15.9	16.4	16.9	17.4	17.9	18.4	18.9	19.3	19.9

Motor folds left



(Unit : mm)

Note: The right fold of the motor is symmetrical with this figure

行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14
KG	10.6	11	11.5	12	12.5	13	13.4	14	14.4	15	15.4	15.9	16.4	16.9	17.4	17.9	18.4	18.9	19.3	19.9

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

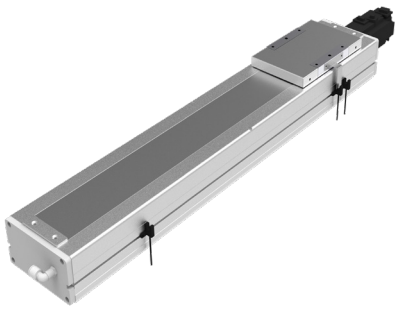
PCH17

PCH17 - L 5 - 100 - BC - M75 - B - C 4 - 0001

- **Model**
- **Screw brand**
  L Standard
- **Screw lead(mm) :**
  P05 : 5mm
  P10 : 10mm
  P20 : 20m
  P40 : 40mm
- **Stroke**
  100-1250mm
  50mm interval
- Motor position
  BC: Exposure
  BM: Fold down
  BR: Fold right
  BL: Fold left
- Motor brand, power:

M: Mitsubishi	10	-
P: Standard	20	-
Y: Yaskawa	40	-
T: Delta	75	750W

- Brake
  B: With brakes
  If there are no brakes, it does not indicate
- **Origin sensor:**
  Built-in type
  A Motor side
  B Anti-motor side
  Plug-in type
  C Motor side
  D Anti-motor side
  No SENSOR
  E No SENSOR
- Endpoint limit sensor:
  Built-in type
  1 1 pcs
  2 2 pcs
  Plug-in type
  3 1 pcs
  4 2 pcs
  No SENSOR
  5 No SENSOR
- Special specification



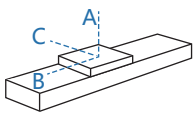
When the travel exceeds 850, there will be screw deflection. Please refer to the motor acceleration and deceleration setting on page 16 of the catalog for 0.2 seconds

※ Basic specifications

Specification	Standard motor power (W)		750W		
	Repeatable positioning accuracy (mm)		±0.01		
	Screw specification		2005	2010	2020	2040
	Max speed (mm/s)		250	500	1000	2000
	Rated thrust (N)		2563	1281	640	320
	Max load (kg)	Horizontal	120	110	75	22
		Vertical	40	30	14	7
	Max stroke (mm)		1250		
Component	Screw specification		2005/2010/2020/2040((Slenderness ratio1： 70)		
	Screw grade		C7 rolling		
	High rigidity linear slider		W20×H15		
	Coupling		44-34-12-19		
	Photoelectric switch		PM-T45(NPN)		

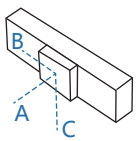
※ Allowable load torque table

(Unit : mm)



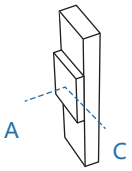
Horizontal installation		A	B	C
Lead 05	70kg	3235	349	406
	90kg	2482	263	306
	120kg	1861	187	218
Lead 10	65kg	1911	338	373
	85kg	1445	248	276
	120kg	1000	164	182
Lead 20	35kg	1666	547	538
	55kg	1030	331	328
	83kg	654	206	204
Lead 40	15kg	1126	740	577
	22kg	755	491	384
	50kg	366	231	183

(Unit : mm)



Side installation		A	B	C
Lead 05	75kg	377	322	2988
	95kg	288	246	2333
	120kg	218	187	1850
Lead 10	60kg	408	368	2092
	80kg	296	266	1554
	120kg	182	164	1000
Lead 20	30kg	633	644	1961
	50kg	365	369	1143
	83kg	204	206	656
Lead 40	12kg	729	936	1417
	22kg	384	491	755
	50kg	183	231	366

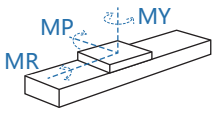
(Unit : mm)



Vertical installation		A	C
Lead 05	20kg	1368	1368
	30kg	911	911
	50kg	546	546
Lead 10	15kg	1618	1618
	25kg	970	970
	40kg	607	607
Lead 20	10kg	1922	1922
	14kg	1377	1377
	25kg	769	769
Lead 40	7kg	1356	1356
	12kg	790	790
	-	-	-

※Static allowable load inertia

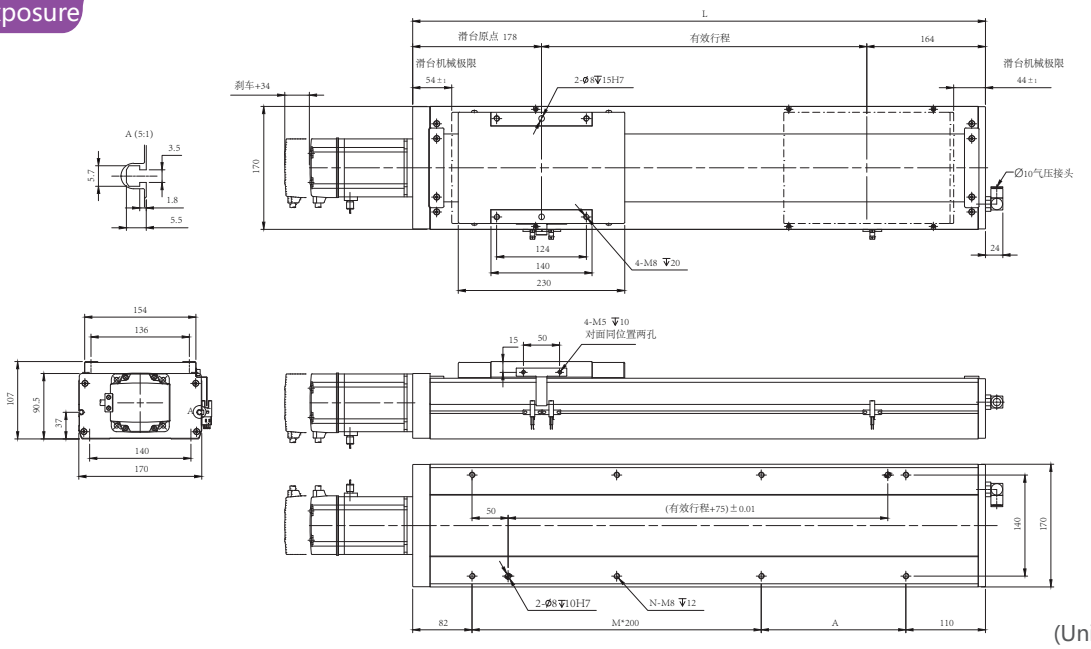
(Unit : N.m)



MY	1032
MP	1034
MR	908

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

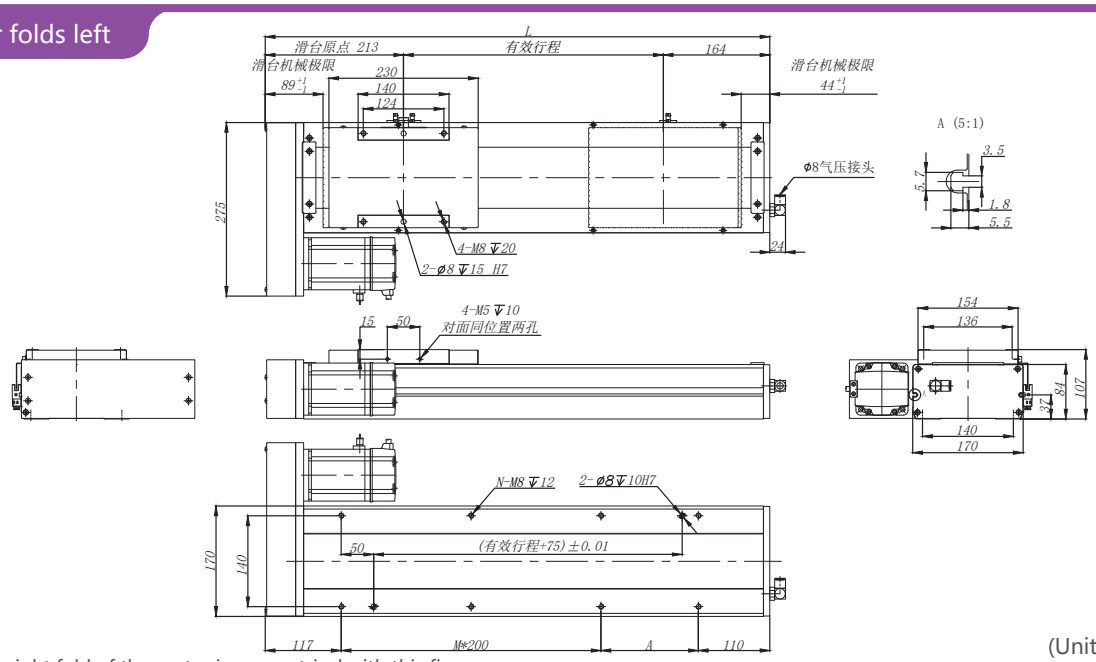
Motor exposure



(Unit : mm)

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	442	492	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292	1342	1392	1442	1492	1542	1592
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28	28.8	29.6	30.4	31.2	32	32.8

Motor folds left



(Unit : mm)

Note: The right fold of the motor is symmetrical with this figure

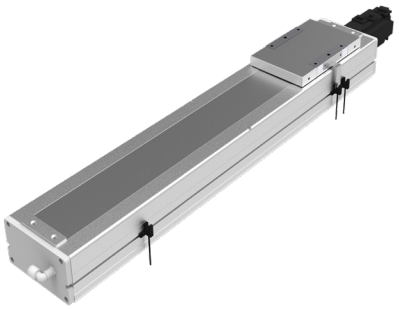
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
KG	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28	28.8	29.6	30.4	31.2	32	32.8

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

PCH22

PCH22 - L 5 - 100 - BC - M75 - B - C 4 - 0001

- **Model**
- **Screw brand** L Standard
- **Screw lead(mm) :** P05 : 5mm; P10 : 10mm; P25 : 25m
- **Stroke** 100-1250mm, 50mm interval
- Motor position: BC: Exposure; BM: Fold down; BR: Fold right; BL: Fold left
- Motor brand, power: M: Mitsubishi; P: Standard; Y: Yaskawa; T: Delta; 10 -; 20 -; 40 -; 75 750W
- Brake: B: With brakes; If there are no brakes, it does not indicate
- **Origin sensor: Built-in type** A Motor side; B Anti-motor side; Plug-in type C Motor side; D Anti-motor side; **No SENSOR** E No SENSOR
- Endpoint limit sensor: Built-in type 1 1 pcs; 2 2 pcs; Plug-in type 3 1 pcs; 4 2 pcs; No SENSOR 5 No SENSOR
- Special specification



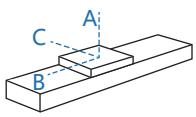
When the travel exceed 900, there will be screw deflection. Please refer to the motor acceleration and deceleration setting on page 16 of the catalog for 0.2 seconds

※ Basic specifications

Specification	Standard motor power (W)		750W	
	Repeatable positioning accuracy (mm)		±0.01	
	Screw diameter (mm)		25 ball screw (C7)	
	Screw specification		2505	2510	2525
	Max speed (mm/s)		250	500	1250
	Rated thrust (N)		2565	1281	640
	Max load (kg)	Horizontal	150	150	105
		Vertical	55	45	20
	Max stroke (mm)		100~1500 (50 interval)		

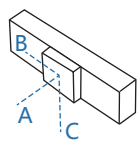
※ Allowable load torque table

(Unit : mm)



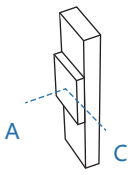
Horizontal installation		A	B	C
Lead 05	100kg	5000	633	557
	125kg	3880	491	431
	150kg	3357	396	347
Lead 10	100kg	3220	563	474
	125kg	2554	434	367
	150kg	2113	349	295
Lead 25	65kg	1522	614	458
	85kg	1136	451	336
	105kg	893	350	262
Lead 40	18kg	2445	1616	1052
	30kg	1436	938	613
	43kg	978	630	412

(Unit : mm)



Side installation		A	B	C
Lead 05	110kg	500	569	4500
	130kg	412	469	3711
	150kg	347	396	3357
Lead 10	110kg	427	503	2900
	130kg	351	414	2444
	150kg	295	349	2113
Lead 25	70kg	420	564	1404
	90kg	315	420	1066
	105kg	262	350	893
Lead 40	15kg	1272	1955	2948
	24kg	778	1190	1813
	43kg	412	630	978

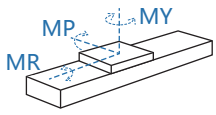
(Unit : mm)



Vertical installation		A	C
Lead 05	30kg	2355	2355
	40kg	1768	1768
	55kg	1288	1288
Lead 10	25kg	2505	2505
	35kg	1795	1795
	45kg	1396	1396
Lead 25	150kg	2711	2711
	20kg	2033	2033
	-	-	-
Lead 40	7kg	3511	3511
	12kg	2055	2055
	-	-	-

※Static allowable load inertia

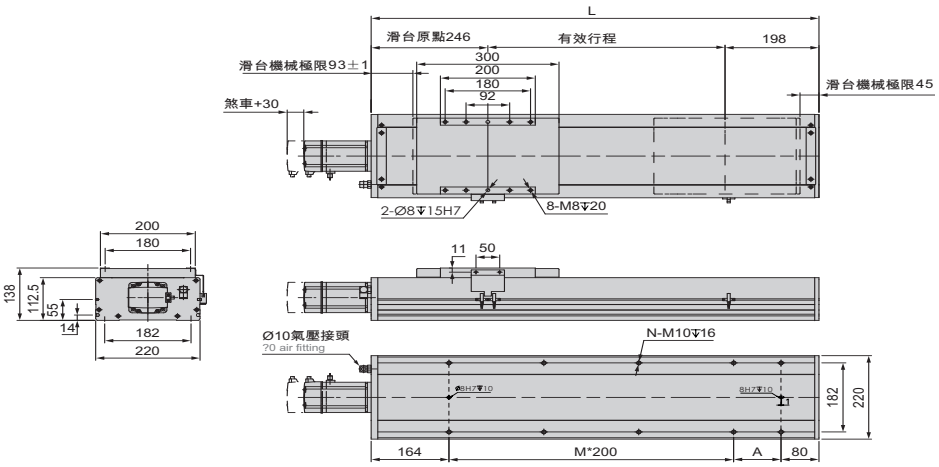
(Unit : N.m)



MY	2052
MP	2052
MR	1810

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

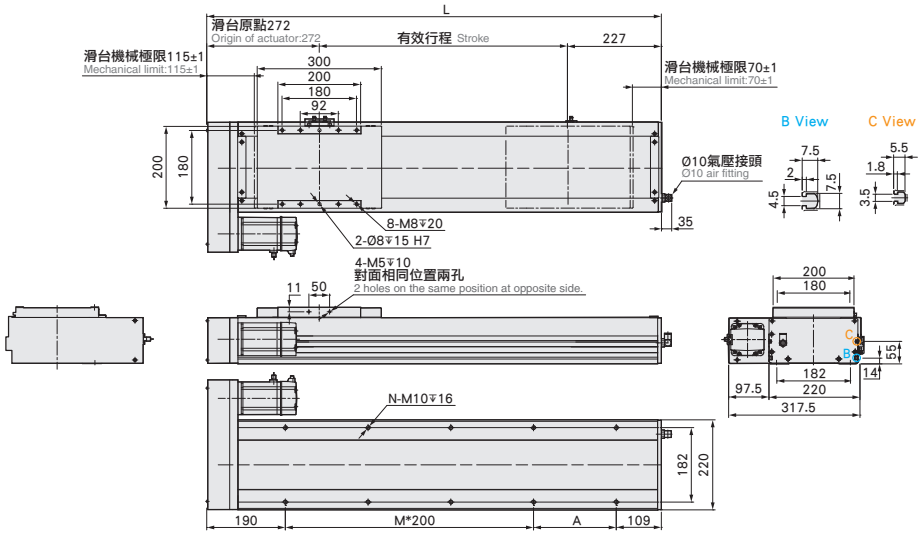
Motor exposure



(Unit : mm)

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544	1594	1644	1694
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18
KG	28.96	30.42	31.88	33.34	34.8	36.26	37.72	39.18	40.64	42.1	43.56	45.02	46.48	47.94	49.4	50.86	52.32	53.78	55.24	56.7	58.16	59.62	61.08	62.54

Motor folds left



(Unit : mm)

Note: The right fold of the motor is symmetrical with this figure

Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18
KG	30.06	31.52	32.98	34.44	35.9	37.36	38.82	40.28	41.74	43.2	44.66	46.12	47.58	49.04	50.5	51.96	53.42	54.88	56.34	57.8	59.26	60.72	62.18	63.64

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

PTB10

PTB10 - L 40 - 100 - L - M 20 - C 4 - 0001

Model

Belt specification
L: Dust-free belt
X: Rubber belt

Belt lead
40: 40mm

Stroke
50-2000mm
50 interval

Motor position
L: Left
LU: Left up
LD: Left down
R: Right
RU: Right up
RD: Right down

Motor brand, power:
Motor brand
P: Panasonic 20 200W
T: Delta 75 -
M: Mitsubishi 10 -
Y: Yaskawa 40 -

Origin sensor:
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR

Endpoint limit sensor:
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR

Special specification



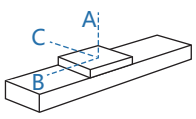
※ Basic specifications

Specification	Repetitive positioning accuracy		±0.08
	Lead mm		40
	Max speed mm/s		2000
	Maximum movable weight	horizontal kg	10
		Vertical kg	-
	Stabilization thrust N		50
	Standard stroke mm		50-2000mm/50 Interval
Component	AC Servo motor capacity		200
	Belt width		25
	High rigidity linear slider		W20×H15
	Origin sensor Plug		PM-T45(NPN)

※1、Motor acceleration and deceleration are set to 0.4 seconds.

※ Allowable load torque table

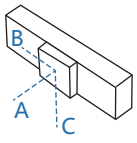
(Unit : mm)



Horizontal installation	A	B	C
5kg	495	152	128
8kg	301	91	77
10kg	236	71	60

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

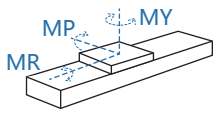
(Unit : mm)



Side installation	A	B	C
15kg	162	192	625
18kg	89	106	347
25kg	50	71	236

※Static allowable load inertia

(Unit : mm)

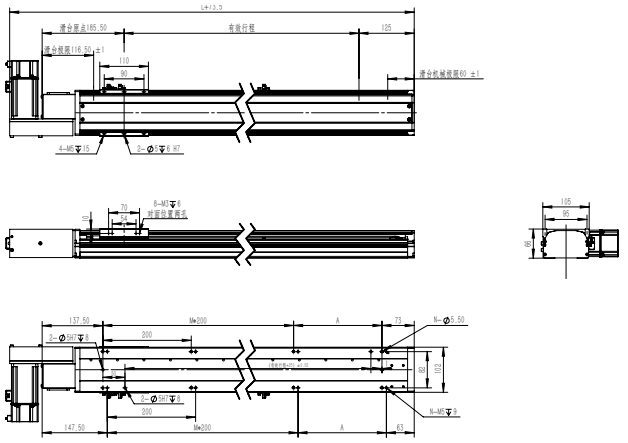


(Unit : N.m)

MY	110
MP	110
MR	120

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor folds right



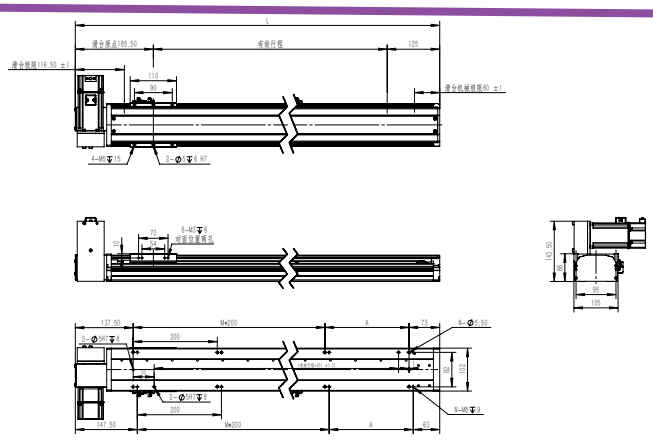
(Unit : mm)

Note: The left fold of the motor is symmetrical with this figure

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	360.5	410.5	460.5	510.5	560.5	610.5	660.5	710.5	760.5	810.5	860.5	910.5	960.5	1010.5	1060.5	1110.5	1160.5	1210.5	1260.5	1310.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	6.87	7.3	7.73	8.15	8.57	9	9.42	9.84	10.26	10.69	11.11	11.53	11.96	12.38	12.8	13.23	13.65	14.07	14.49	14.92

Stroke	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
L	1360.5	1410.5	1460.5	1510.5	1560.5	1610.5	1660.5	1710.5	1760.5	1810.5	1860.5	1910.5	1960.5	2010.5	2060.5	2110.5	2160.5	2210.5	2260.5	2310.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10
N	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24
KG	15.34	15.76	16.18	16.6	17.02	17.44	17.36	17.78	18.2	19.12	19.54	19.96	20.38	20.8	21.22	21.64	22.06	22.48	22.9	23.32

Motor folds right up



(Unit : mm)

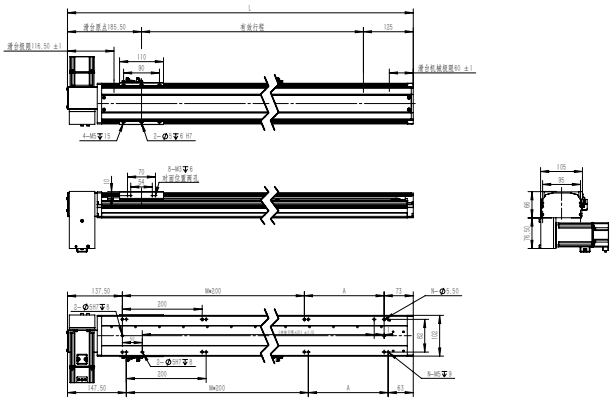
Note : The upper left fold of the motor is symmetrical to this diagram.

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	360.5	410.5	460.5	510.5	560.5	610.5	660.5	710.5	760.5	810.5	860.5	910.5	960.5	1010.5	1060.5	1110.5	1160.5	1210.5	1260.5	1310.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	6.87	7.3	7.73	8.15	8.57	9	9.42	9.84	10.26	10.69	11.11	11.53	11.96	12.38	12.8	13.23	13.65	14.07	14.49	14.92

Stroke	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
L	1360.5	1410.5	1460.5	1510.5	1560.5	1610.5	1660.5	1710.5	1760.5	1810.5	1860.5	1910.5	1960.5	2010.5	2060.5	2110.5	2160.5	2210.5	2260.5	2310.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10
N	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24
KG	15.34	15.76	16.18	16.6	17.02	17.44	17.36	17.78	18.2	19.12	19.54	19.96	20.38	20.8	21.22	21.64	22.06	22.48	22.9	23.32

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Motor folds right down



Note : The lower left fold of the motor is symmetrical to this diagram.

(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	360.5	410.5	460.5	510.5	560.5	610.5	660.5	710.5	760.5	810.5	860.5	910.5	960.5	1010.5	1060.5	1110.5	1160.5	1210.5	1260.5	1310.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14
KG	6.87	7.3	7.73	8.15	8.57	9	9.42	9.84	10.26	10.69	11.11	11.53	11.96	12.38	12.8	13.23	13.65	14.07	14.49	14.92

Stroke	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
L	1360.5	1410.5	1460.5	1510.5	1560.5	1610.5	1660.5	1710.5	1760.5	1810.5	1860.5	1910.5	1960.5	2010.5	2060.5	2110.5	2160.5	2210.5	2260.5	2310.5
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10
N	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24
KG	15.34	15.76	16.18	16.6	17.02	17.44	17.36	17.78	18.2	19.12	19.54	19.96	20.38	20.8	21.22	21.64	22.06	22.48	22.9	23.32

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

PTB14

PTB14 - L 40 - 100 - L - M 20 - C 4 - 0001

Model

Belt specification
L: Dust-free belt
X: Rubber belt

Belt lead
40: 40mm

Stroke
50-3050mm
50 interval

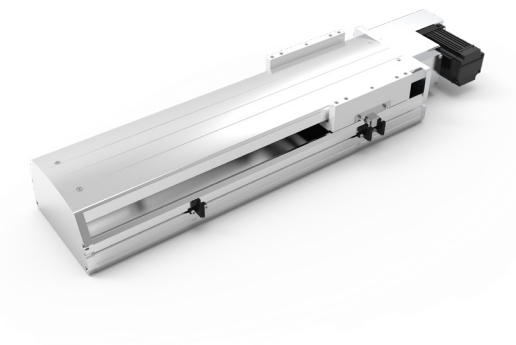
Motor position
L: Left
LU: Left up
LD: Left down
R: Right
RU: Right up
RD: Right down

Motor brand, power:
Motor brand
P: Panasonic 20 200W
T: Delta 75 -
M: Mitsubishi 10 -
Y: Yaskawa 40 -

Origin sensor:
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR

Endpoint limit sensor:
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR

Special specification



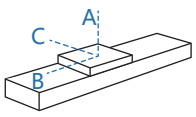
※ Basic specifications

Specification	Lead mm		40
	Max speed mm/s		2000
	Maximum movable weight	horizontal kg	25
		Vertical kg	-
	Stabilization thrust N		100
	Standard stroke mm		20-3050mm/50 Interval
Component	AC Servo motor capacity		200
	Belt width		25
	High rigidity linear slider		W15×H12.5
	Origin sensor Plug		PM-T45(NPN)

※1、Motor acceleration and deceleration are set to 0.4 seconds.

※ Allowable load torque table

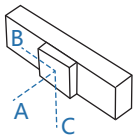
(Unit : mm)



Horizontal installation	A	B	C
10kg	1794	688	538
20kg	858	324	253
25kg	670	251	197

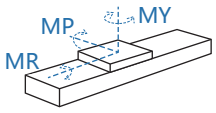
※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

(Unit : mm)



Side installation	A	B	C
15kg	348	446	1170
18kg	285	365	961
25kg	197	251	670

(Unit : mm)



※Static allowable load inertia

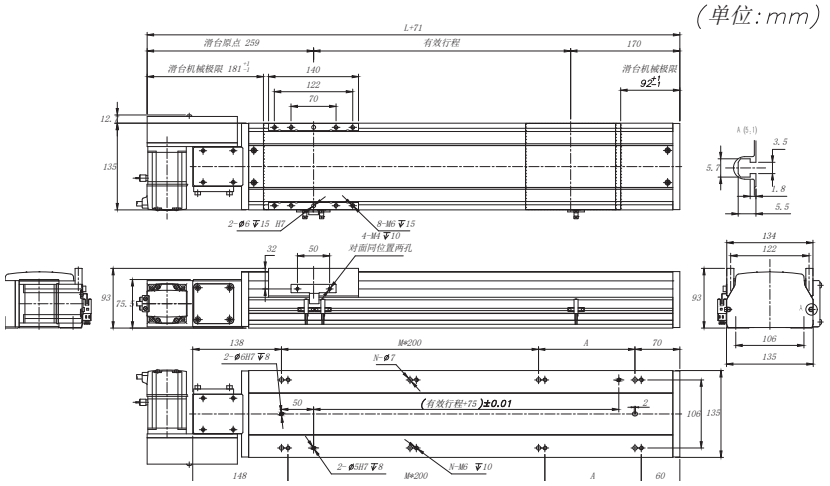
(Unit : N.m)

MY	551
MP	552
MR	485

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor folds left

（单位：mm）



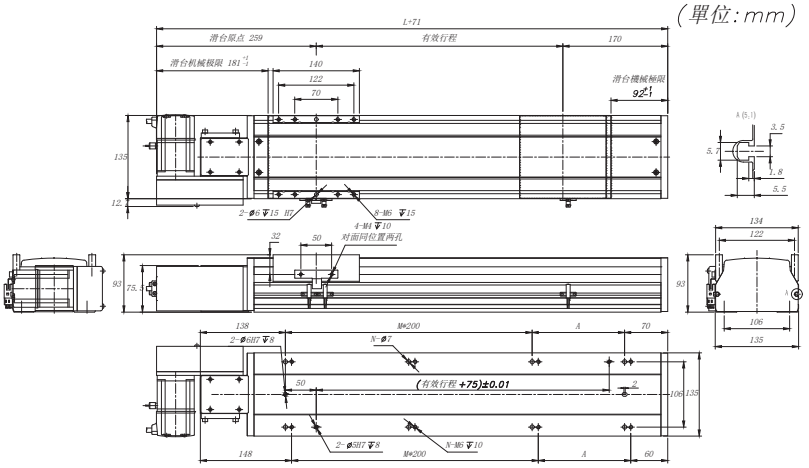
(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1958	2008	2058	2108	2158	2208	2258	2308	2358	2408	2458	2508	2558	2608	2658	2708	2758	2808	2858	2908	2958	3008	3058	3108	3158	3208	3258	3308	3358	3408
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	419

Motor folds right

（單位：mm）



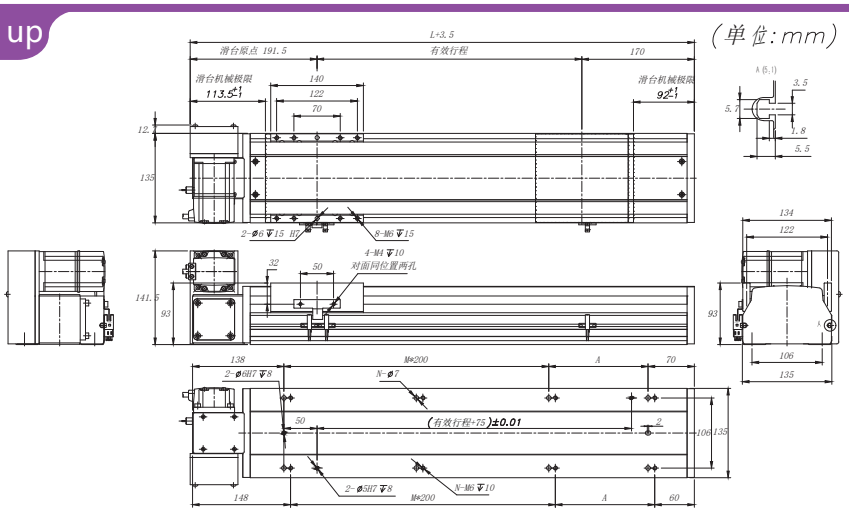
(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1958	2008	2058	2108	2158	2208	2258	2308	2358	2408	2458	2508	2558	2608	2658	2708	2758	2808	2858	2908	2958	3008	3058	3108	3158	3208	3258	3308	3358	3408
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	419

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Motor folds left up

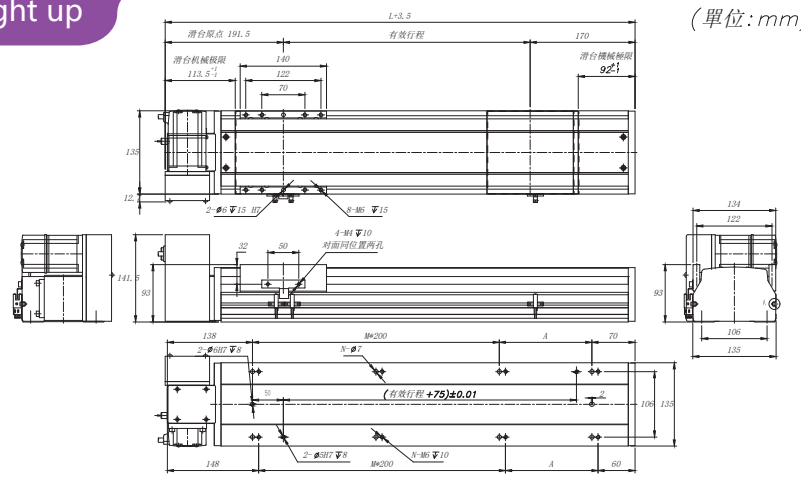


(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1958	2008	2058	2108	2158	2208	2258	2308	2358	2408	2458	2508	2558	2608	2658	2708	2758	2808	2858	2908	2958	3008	3058	3108	3158	3208	3258	3308	3358	3408
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	419

Motor folds right up



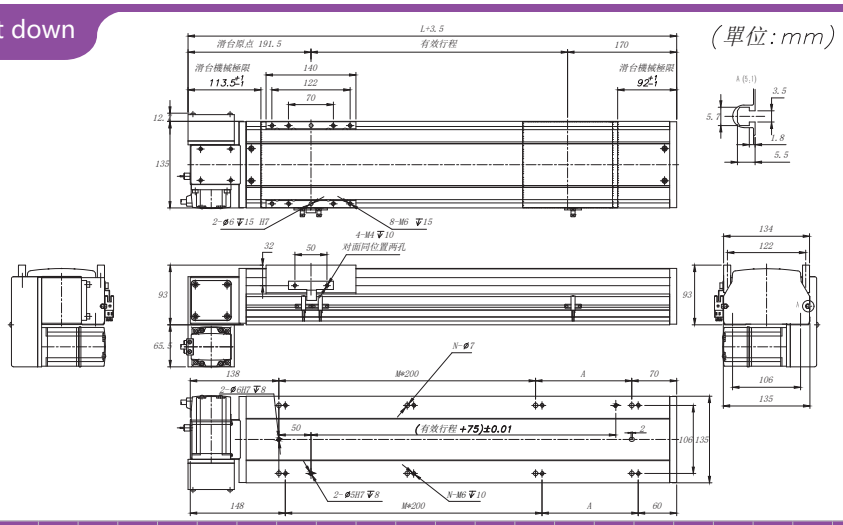
(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1958	2008	2058	2108	2158	2208	2258	2308	2358	2408	2458	2508	2558	2608	2658	2708	2758	2808	2858	2908	2958	3008	3058	3108	3158	3208	3258	3308	3358	3408
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	419

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

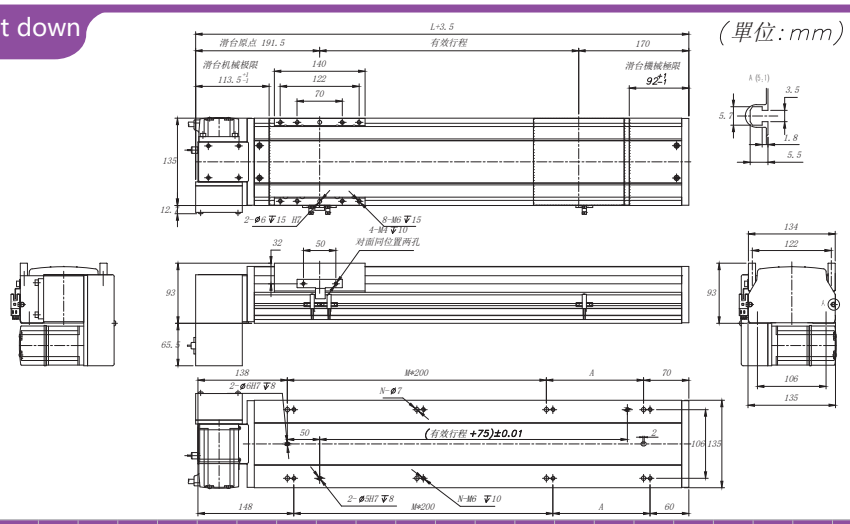
Motor folds left down



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1958	2008	2058	2108	2158	2208	2258	2308	2358	2408	2458	2508	2558	2608	2658	2708	2758	2808	2858	2908	2958	3008	3058	3108	3158	3208	3258	3308	3358	3408
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	419

Motor folds right down



Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1958	2008	2058	2108	2158	2208	2258	2308	2358	2408	2458	2508	2558	2608	2658	2708	2758	2808	2858	2908	2958	3008	3058	3108	3158	3208	3258	3308	3358	3408
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	419

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

PTB17

PTB17 - L 40 - 50 - L - M 40 - C 4 - 0001

Model

Belt specification
L: Dust-free belt
X: Rubber belt

Belt lead
40: 40mm

Stroke
50-3050mm
50 interval

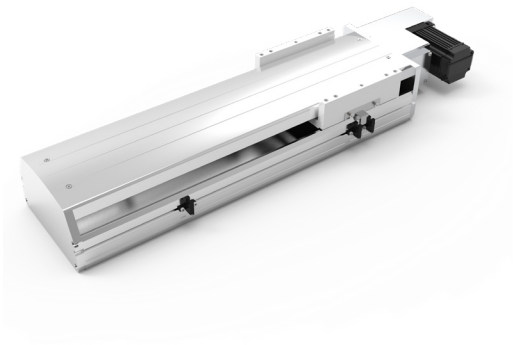
Motor position
L: Left
LU: Left up
LD: Left down
R: Right
RU: Right up
RD: Right down

Motor brand, power:
Motor brand
P: Panasonic 20 -
T: Delta 75 -
M: Mitsubishi 10 -
Y: Yaskawa 40 400W

Origin sensor:
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR

Endpoint limit sensor:
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR

Special specification



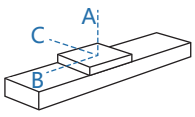
※ Basic specifications

Specification	Repetitive positioning accuracy		±0.08
	Lead mm		40
	Max speed mm/s		2000
	Maximum movable weight	horizontal kg	45
		Vertical kg	-
	Stabilization thrust N		204
	Standard stroke mm		20-3050mm/50 Interval
Component	AC Servo motor capacity		400
	Belt width		30
	High rigidity linear slider		W20×H15
	Origin sensor	Plug	PM-T45(NPN)

※1、Motor acceleration and deceleration are set to 0.4 seconds.

※ Allowable load torque table

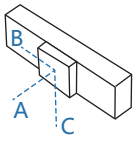
(Unit : mm)



水平安装	A	B	C
10kg	2942	1133	1033
20kg	1430	547	498
30kg	926	350	320
45kg	588	219	201

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

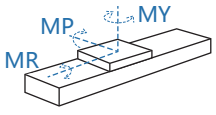
(Unit : mm)



侧挂安装	A	B	C
15kg	676	742	1933
25kg	390	428	1127
35kg	269	294	781
45kg	201	219	588

※Static allowable load inertia

(Unit : mm)

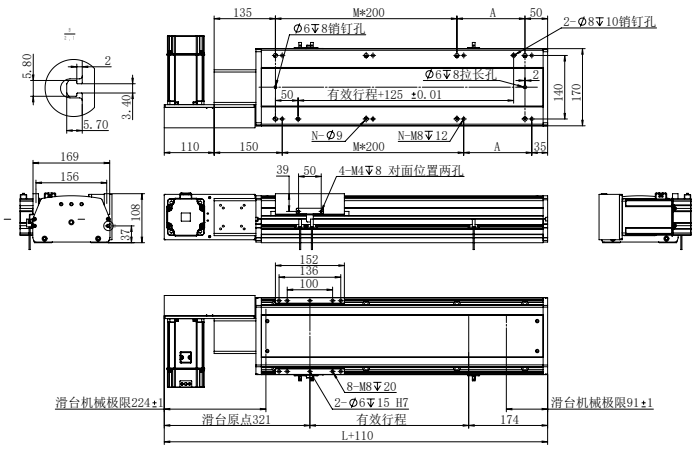


(Unit : N.m)

MY	1032
MP	1034
MR	908

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor folds left

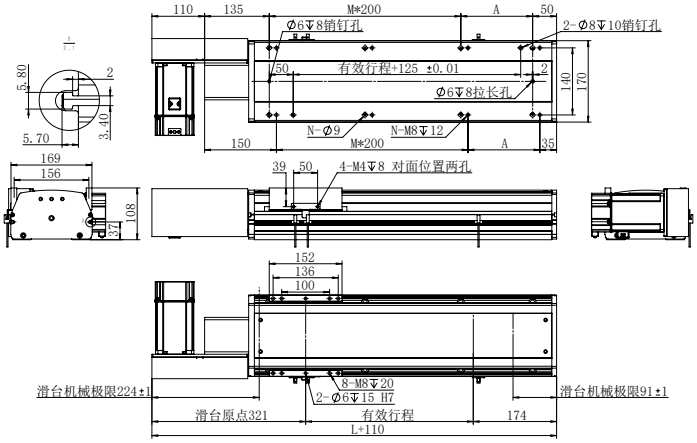


(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	435	485	535	585	635	685	735	785	835	885	935	985	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	10.2	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1985	2035	2085	2135	2185	2235	2285	2335	2385	2435	2485	2535	2585	2635	2685	2735	2785	2835	2885	2935	2985	3035	3085	3135	3185	3235	3285	3335	3385	3435
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8

Motor folds right



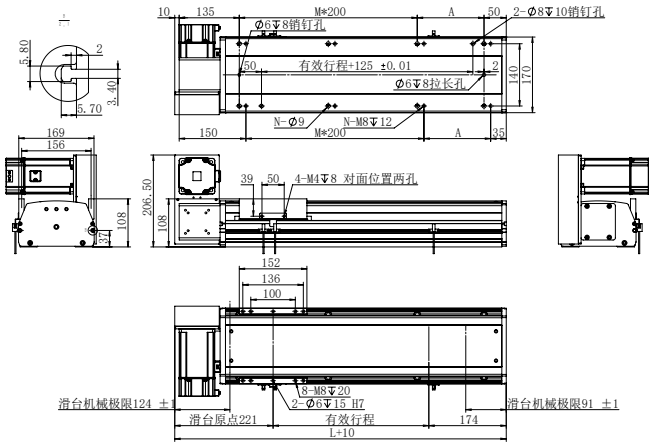
(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	435	485	535	585	635	685	735	785	835	885	935	985	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	10.2	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1985	2035	2085	2135	2185	2235	2285	2335	2385	2435	2485	2535	2585	2635	2685	2735	2785	2835	2885	2935	2985	3035	3085	3135	3185	3235	3285	3335	3385	3435
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Motor folds left up

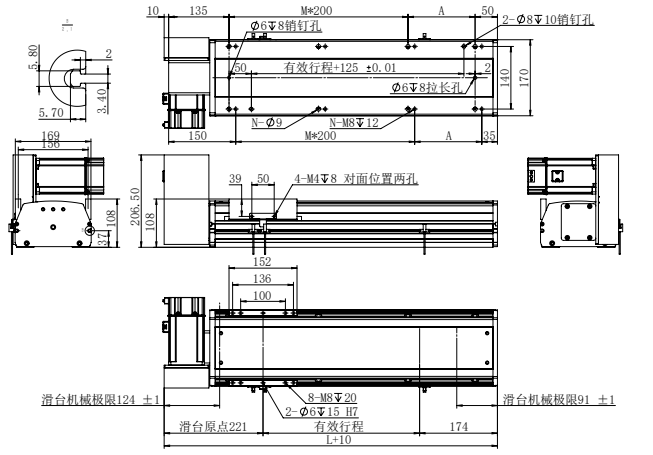


(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	435	485	535	585	635	685	735	785	835	885	935	985	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	10.2	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1985	2035	2085	2135	2185	2235	2285	2335	2385	2435	2485	2535	2585	2635	2685	2735	2785	2835	2885	2935	2985	3035	3085	3135	3185	3235	3285	3335	3385	3435
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8

Motor folds right up



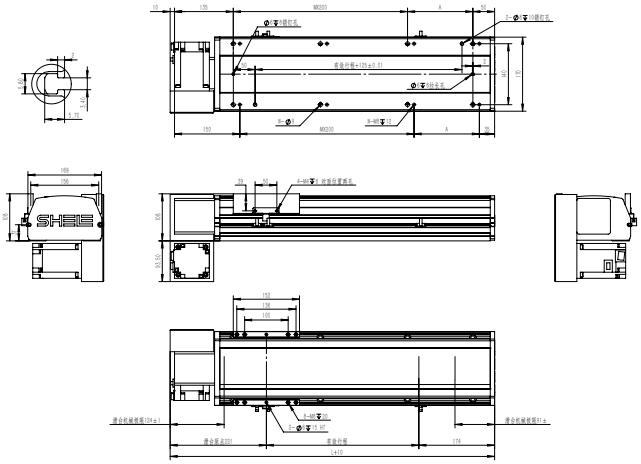
(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	435	485	535	585	635	685	735	785	835	885	935	985	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	10.2	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1985	2035	2085	2135	2185	2235	2285	2335	2385	2435	2485	2535	2585	2635	2685	2735	2785	2835	2885	2935	2985	3035	3085	3135	3185	3235	3285	3335	3385	3435
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Motor folds left down

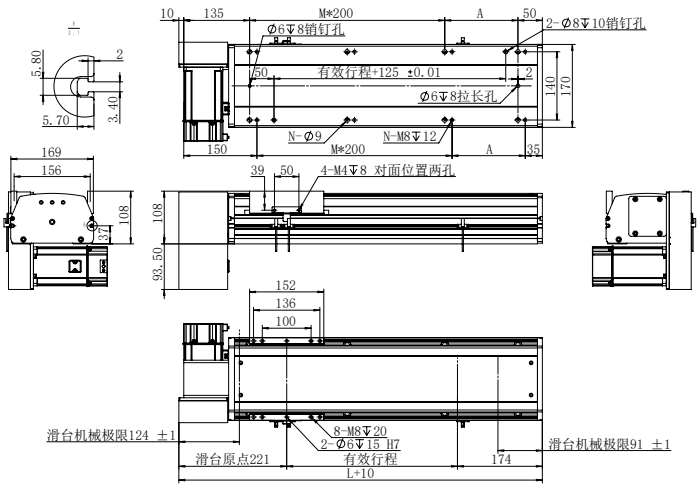


(Unit : mm)

行程 Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	435	485	535	585	635	685	735	785	835	885	935	985	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	10.2	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8

行程 Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1985	2035	2085	2135	2185	2235	2285	2335	2385	2435	2485	2535	2585	2635	2685	2735	2785	2835	2885	2935	2985	3035	3085	3135	3185	3235	3285	3335	3385	3435
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8

Motor folds right down



(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	435	485	535	585	635	685	735	785	835	885	935	985	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	10.2	12	13.8	14.6	15.4	16.1	16.9	17.7	18.5	19.2	20	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.2	27	27.8	28.6	29.4	30.2	31	31.8	32.6	33.4	34.2	35	35.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1985	2035	2085	2135	2185	2235	2285	2335	2385	2435	2485	2535	2585	2635	2685	2735	2785	2835	2885	2935	2985	3035	3085	3135	3185	3235	3285	3335	3385	3435
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	36.6	37.4	38.2	39	39.8	40.6	41.4	42.2	43	43.8	44.6	45.4	46.2	47	47.8	48.6	49.4	50.2	51	51.8	52.6	53.4	54.2	55	55.8	56.6	57.4	58.2	59	59.8

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

PTB22

PTB22 - L 40 - 100 - L - M 75 - C 4 - 0001

Model

Belt specification
L: Dust-free belt
X: Rubber belt

Belt lead
40: 40mm

Stroke
50-3500mm
50 interval

Motor position
L: Left
LU: Left up
LD: Left down
R: Right
RU: Right up
RD: Right down

Motor brand, power:
Motor brand
P: Panasonic 20 -
T: Delta 75 750W
M: Mitsubishi 10 -
Y: Yaskawa 40 400W

Origin sensor:
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR

Endpoint limit sensor:
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR

Special specification



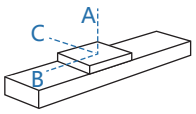
※ Basic specifications

Specification	Repetitive positioning accuracy		±0.08
	Lead mm		40
	Max speed mm/s		2000
	Maximum movable weight	horizontal kg	85
		Vertical kg	-
	Stabilization thrust N		367
	Standard stroke mm		20-3500mm/50 Interval
Component	AC Servo motor capacity		750
	Belt width		45
	High rigidity linear slider		W23×H18
	Origin sensor	Plug	PM-T45(NPN)

※1、Motor acceleration and deceleration are set to 0.4 seconds.

※ Allowable load torque table

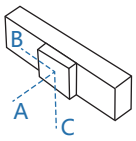
(Unit : mm)



Horizontal installation	A	B	C
45kg	1588	600	349
65kg	1052	328	285
85kg	768	281	206

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

(Unit : mm)

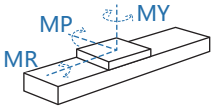


Side installation	A	B	C
40kg	500	685	1805
60kg	315	430	1152
85kg	206	281	768

※Static allowable load inertia

(Unit : mm)

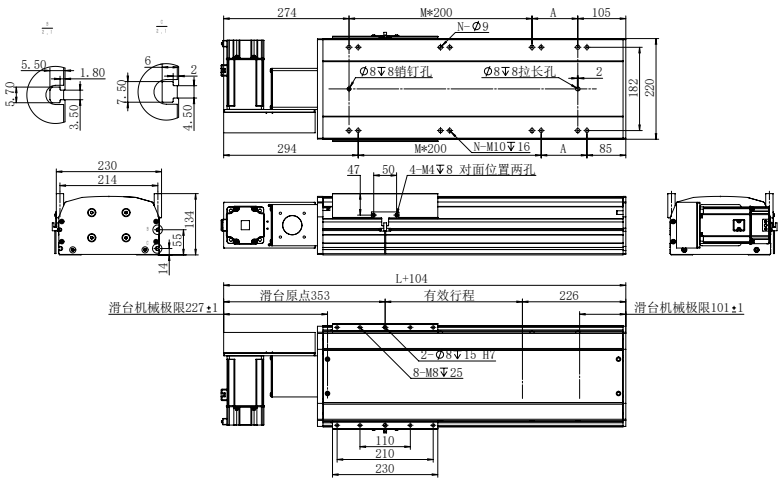
(Unit : N.m)



MY	2052
MP	2052
MR	1810

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor folds left

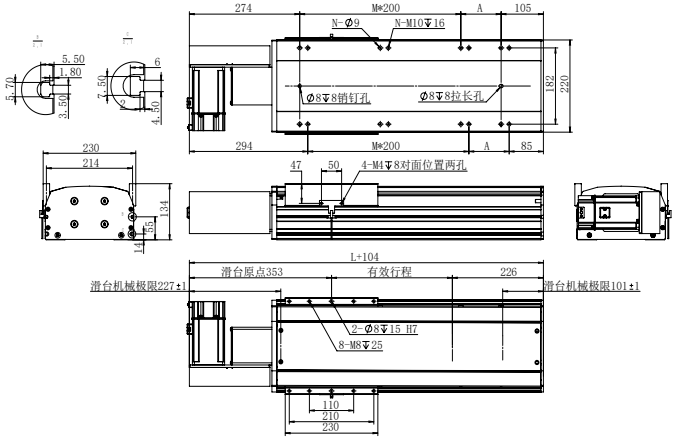


(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475	1525	1575	1625	1675	1725	1775	1825	1875	1925	1975	2025
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2075	2125	2175	2225	2275	2325	2375	2425	2475	2525	2575	2625	2675	2725	2775	2825	2875	2925	2975	3025	3075	3125	3175	3225	3275	3325	3375	3425	3475	3525
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8

Motor folds right



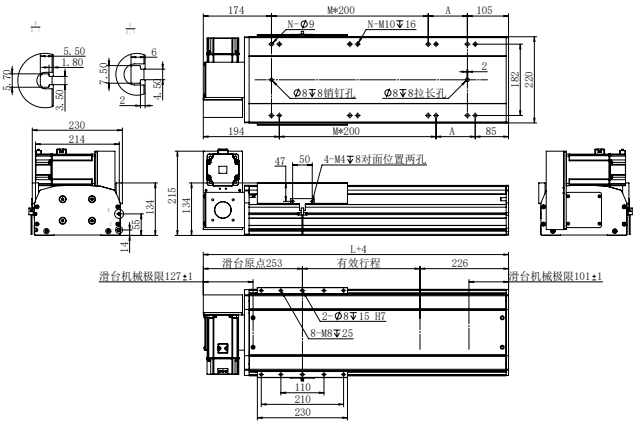
(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475	1525	1575	1625	1675	1725	1775	1825	1875	1925	1975	2025
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2075	2125	2175	2225	2275	2325	2375	2425	2475	2525	2575	2625	2675	2725	2775	2825	2875	2925	2975	3025	3075	3125	3175	3225	3275	3325	3375	3425	3475	3525
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Motor folds left up

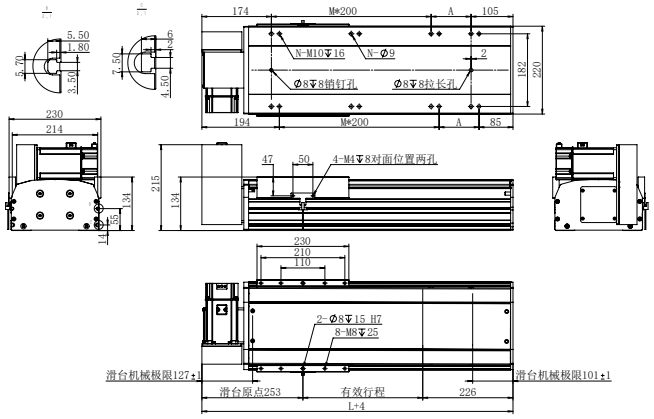


(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475	1525	1575	1625	1675	1725	1775	1825	1875	1925	1975	2025
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2075	2125	2175	2225	2275	2325	2375	2425	2475	2525	2575	2625	2675	2725	2775	2825	2875	2925	2975	3025	3075	3125	3175	3225	3275	3325	3375	3425	3475	3525
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8

Motor folds right up



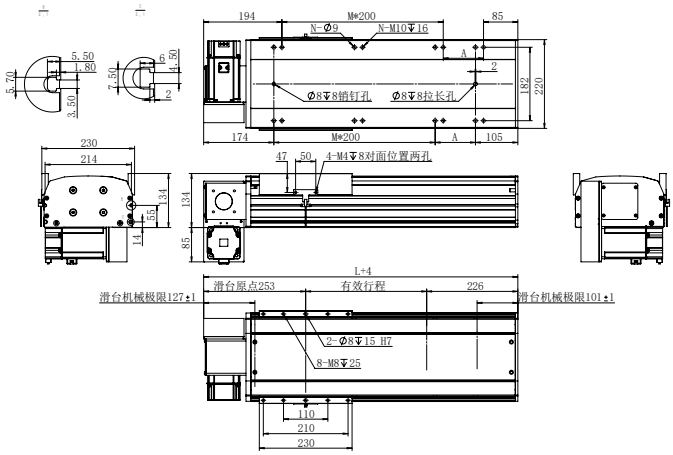
(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475	1525	1575	1625	1675	1725	1775	1825	1875	1925	1975	2025
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2075	2125	2175	2225	2275	2325	2375	2425	2475	2525	2575	2625	2675	2725	2775	2825	2875	2925	2975	3025	3075	3125	3175	3225	3275	3325	3375	3425	3475	3525
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Motor folds left down

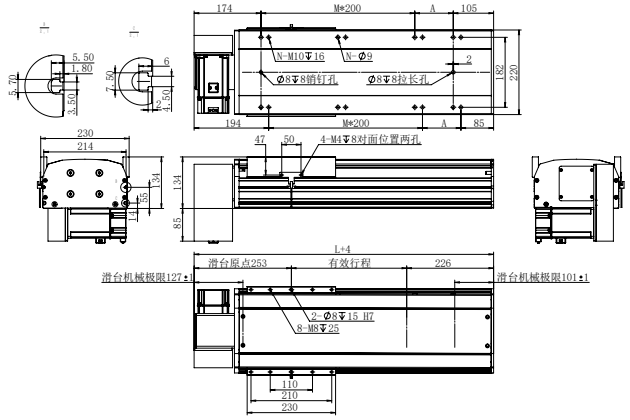


(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475	1525	1575	1625	1675	1725	1775	1825	1875	1925	1975	2025
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2075	2125	2175	2225	2275	2325	2375	2425	2475	2525	2575	2625	2675	2725	2775	2825	2875	2925	2975	3025	3075	3125	3175	3225	3275	3325	3375	3425	3475	3525
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8

Motor folds right down



(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475	1525	1575	1625	1675	1725	1775	1825	1875	1925	1975	2025
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
KG	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2075	2125	2175	2225	2275	2325	2375	2425	2475	2525	2575	2625	2675	2725	2775	2825	2875	2925	2975	3025	3075	3125	3175	3225	3275	3325	3375	3425	3475	3525
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36
KG	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

PTB27

PTB27 - L 208 - 100 - L - M 100 - C 4 - 0001

Model

Belt specification
L: Dust-free belt
X: Rubber belt

Belt lead
P208: 208mm

Stroke
100-4000mm
100 interval

Motor position
L: Left
LU: Left up
LD: Left down
R: Right
RU: Right up
RD: Right down

Motor brand, power:
Motor brand
P: Panasonic 100 -
T: Delta 100 -
M: Mitsubishi 100 1000W
Y: Yaskawa 100 -

Origin sensor:
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR

Endpoint limit sensor:
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR

Special specification

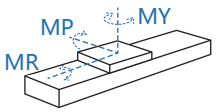
※ Basic specifications

Specification	Repetitive positioning accuracy		±0.08			
	Lead mm		208			
	Reduction ratio		3:1	5:1	7:1	10:1
	Max speed mm/s		2311	1386	990	693
	Maximum movable weight	horizontal kg	22	60	110	200
		Vertical kg	——			
	Stabilization thrust N		367	613	858	1226
	Standard stroke mm		100-4000mm/50 Interval			
Component	AC Servo motor capacity		1000			
	Belt width		45			
	High rigidity linear slider		W28×H26			
	Origin sensor	Plug	PM-T45(NPN)			

※1、Motor acceleration and deceleration are set to 0.4 seconds.

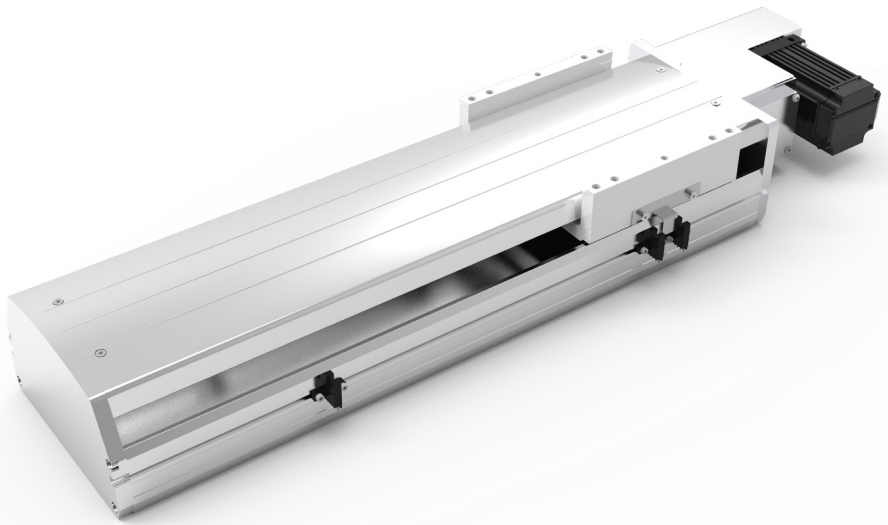
※Static allowable load inertia

(Unit : N.m)

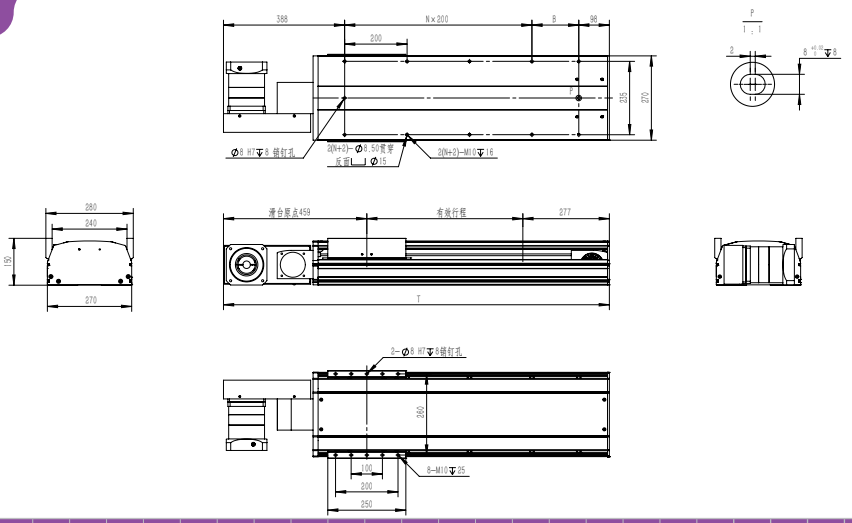


MY	3075(N.M)
MP	3075(N.M)
MR	2715(N.M)

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.



Motor folds left

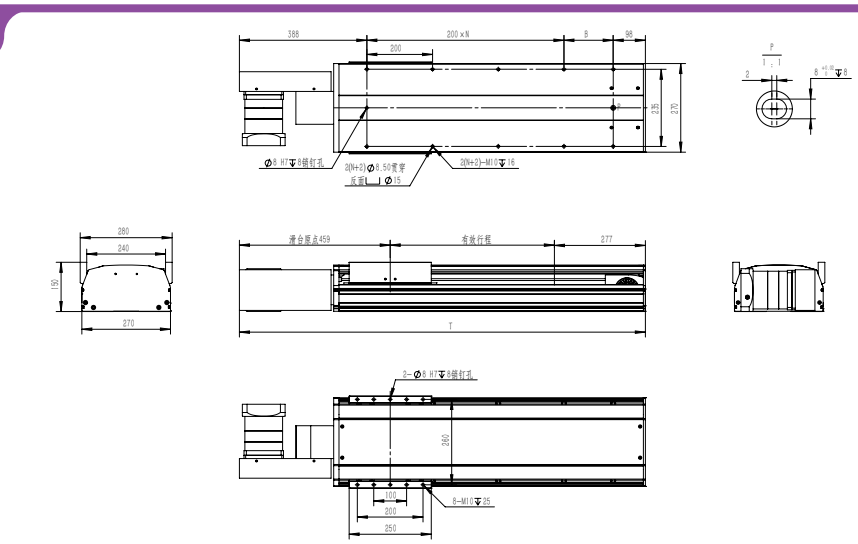


(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
T	786	836	886	936	986	1036	1086	1136	1186	1236	1286	1336	1386	1436	1486	1536	1586	1636	1686	1736	1786	1836	1886	1936	1986	2036	2086	2136	2186	2236	2286	2336	2386	2436
B	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
N	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9
KG	39.8	41.6	43.4	45.2	47	48.8	50.6	52.4	54.2	56	57.8	59.6	61.4	63.2	65	66.8	68.6	70.4	72.2	74	75.8	77.6	79.4	81.2	83	84.8	86.6	88.4	90.2	92	93.8	95.6	97.4	99.2

Stroke	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400
T	2486	2536	2586	2636	2686	2736	2786	2836	2886	2936	2986	3036	3086	3136	3186	3236	3286	3336	3386	3436	3486	3536	3586	3636	3686	3736	3786	3836	3886	3936	3986	4036	4086	4136
B	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
N	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16	16	17	17	17	17	18
KG	101	102.8	104.6	106.4	108.2	110	111.8	113.6	115.4	117.2	119	120.8	122.6	124.4	126.2	128	129.8	131.6	133.4	135.2	137	138.8	140.6	142.4	144.2	146	147.8	149.6	151.4	153.2	155	156.8	158.6	160.4

Motor folds right



(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
T	786	836	886	936	986	1036	1086	1136	1186	1236	1286	1336	1386	1436	1486	1536	1586	1636	1686	1736	1786	1836	1886	1936	1986	2036	2086	2136	2186	2236	2286	2336	2386	2436
B	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
N	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9
KG	39.8	41.6	43.4	45.2	47	48.8	50.6	52.4	54.2	56	57.8	59.6	61.4	63.2	65	66.8	68.6	70.4	72.2	74	75.8	77.6	79.4	81.2	83	84.8	86.6	88.4	90.2	92	93.8	95.6	97.4	99.2

Stroke	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400
T	2486	2536	2586	2636	2686	2736	2786	2836	2886	2936	2986	3036	3086	3136	3186	3236	3286	3336	3386	3436	3486	3536	3586	3636	3686	3736	3786	3836	3886	3936	3986	4036	4086	4136
B	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
N	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16	16	17	17	17	17	18
KG	101	102.8	104.6	106.4	108.2	110	111.8	113.6	115.4	117.2	119	120.8	122.6	124.4	126.2	128	129.8	131.6	133.4	135.2	137	138.8	140.6	142.4	144.2	146	147.8	149.6	151.4	153.2	155	156.8	158.6	160.4

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

PCB14

PCB14 - L 40 - 100 - L - M40 - C 4 - 0001

Model

Belt specification
L: Dust-free belt
X: Rubber belt

Belt lead
P40: 40mm

Stroke
50-3050mm
50 interval

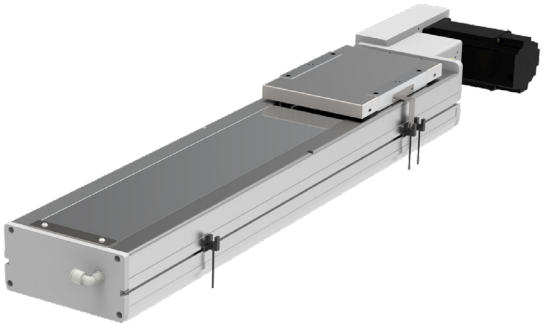
Motor position
L: Left
LU: Left up
LD: Left down
R: Right
RU: Right up
RD: Right down

Motor brand, power:
Motor brand
P: Panasonic 20 200W
T: Delta 75 -
M: Mitsubishi 10 -
Y: Yaskawa 40 -

Origin sensor:
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR

Endpoint limit sensor:
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR

Special specification



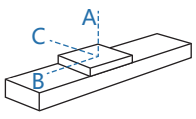
※ Basic specifications

Specification	Lead mm		40
	Maximum speed mm/s		2000
	Max load (kg)	Horizontal	25
		Vertical	-
	Stabilization thrust N		100
	Standard stroke mm		20-3050mm/50 interval
Component	AC Servo motor capacity		200
	Belt width		25
	High rigidity linear slider		W15×H12.5
	Origin sensor	Plug	PM-T45(NPN)

※1、Motor acceleration and deceleration are set to 0.4 seconds.

※ Allowable load torque table

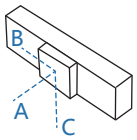
(Unit : mm)



Horizontal installation	A	B	C
10kg	1794	688	538
20kg	858	324	253
25kg	670	251	197

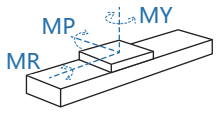
※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

(Unit : mm)



侧挂安装	A	B	C
15kg	348	446	1170
18kg	285	365	961
25kg	197	251	670

(Unit : mm)



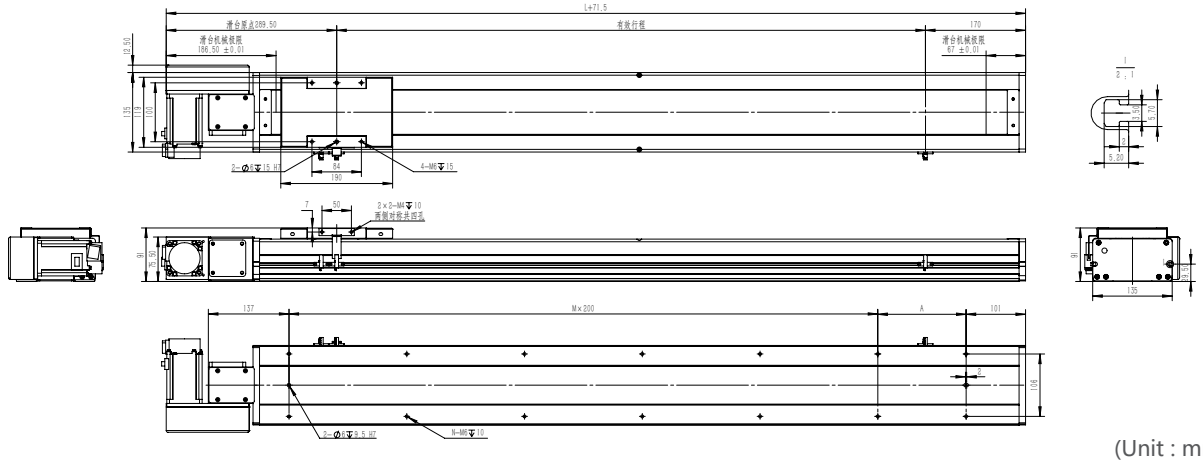
MY	551
MP	552
MR	485

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

※Static allowable load inertia

(Unit : N.m)

Motor folds left

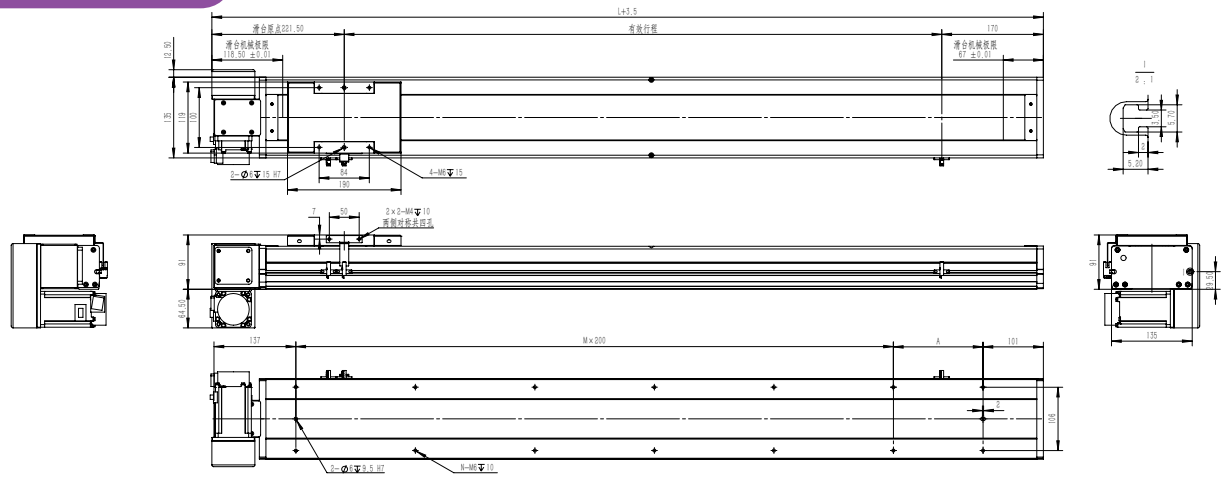


(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438	1488	1538	1588	1638	1688	1738	1788	1838	1888	1938
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1988	2038	2088	2138	2188	2238	2288	2338	2388	2438	2488	2538	2588	2638	2688	2738	2788	2838	2888	2938	2988	3038	3088	3138	3188	3238	3288	3338	3388	3438
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9

Motor folds left down



Note: The lower right folding of the motor is symmetrical to this diagram

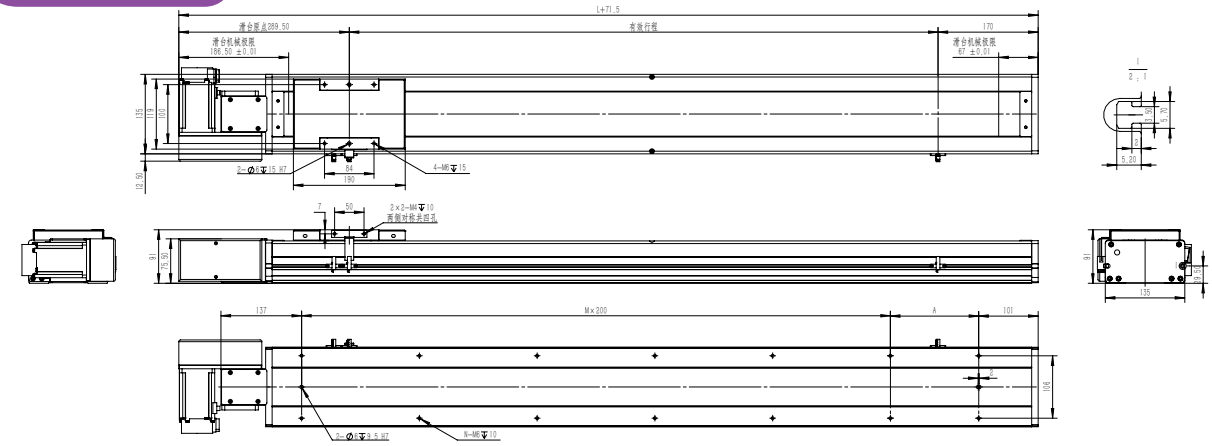
(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438	1488	1538	1588	1638	1688	1738	1788	1838	1888	1938
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1988	2038	2088	2138	2188	2238	2288	2338	2388	2438	2488	2538	2588	2638	2688	2738	2788	2838	2888	2938	2988	3038	3088	3138	3188	3238	3288	3338	3388	3438
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Motor folds right

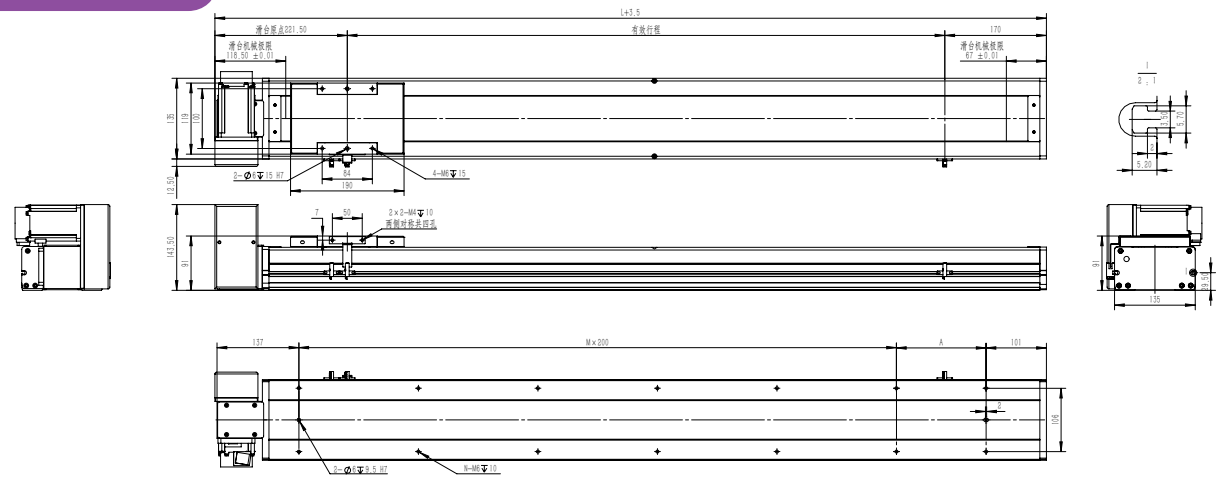


(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438	1488	1538	1588	1638	1688	1738	1788	1838	1888	1938
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1988	2038	2088	2138	2188	2238	2288	2338	2388	2438	2488	2538	2588	2638	2688	2738	2788	2838	2888	2938	2988	3038	3088	3138	3188	3238	3288	3338	3388	3438
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9

Motor folds right up



Note: The upper left folding of the motor is symmetrical to this diagram

(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438	1488	1538	1588	1638	1688	1738	1788	1838	1888	1938
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	11.2	11.6	12	12.5	13	13.5	14	14.4	15	15.4	16	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.9	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	1988	2038	2088	2138	2188	2238	2288	2338	2388	2438	2488	2538	2588	2638	2688	2738	2788	2838	2888	2938	2988	3038	3088	3138	3188	3238	3288	3338	3388	3438
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	38.9	39.5	40.1	40.7	41.3	41.9	42.5	43.1	43.7	44.3	44.9

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

PCB17

PCB17 - L 40 - 100 - L - M75 - C 4 - 0001

Model

Belt specification
L: Dust-free belt
X: Rubber belt

Belt lead
P40: 40mm

Stroke
50-3050mm
50 interval

Motor position
L: Left
LU: Left up
LD: Left down
R: Right
RU: Right up
RD: Right down

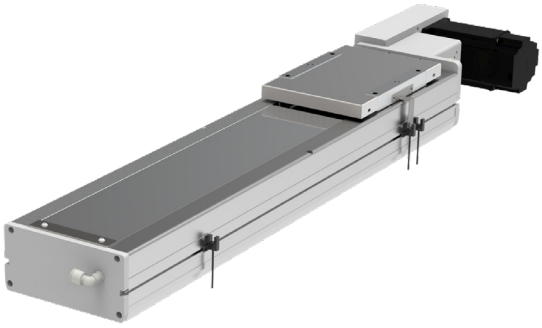
Motor brand, power:

Motor brand		
P: Panasonic	20	-
T: Delta	75	-
M: Mitsubishi	10	-
Y: Yaskawa	40	400W

Origin sensor:
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR

Endpoint limit sensor:
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR

Special specification



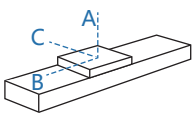
※ Basic specifications

Specification	Repetitive positioning accuracy		±0.08
	Lead mm		40
	Maximum speed mm/s		2000
	Max load (kg)	Horizontal	45
		Vertical	-
	Freeze thrust (N)		204
	Standard stroke mm		20-3050mm/50 interval
Component	AC servo motor capacity		400
	Belt width		30
	High rigidity linear slider		W20×H15
	Origin sensor plug-in		PM-T45(NPN)

※1、Motor acceleration and deceleration are set to 0.4 seconds.

※ Allowable load torque table

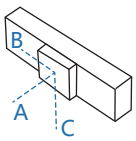
(Unit : mm)



Horizontal installation	A	B	C
10kg	2942	1133	1033
20kg	1430	547	498
30kg	926	350	320
45kg	588	219	201

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

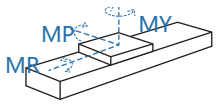
(Unit : mm)



Side installation	A	B	C
15kg	676	742	1933
25kg	390	428	1127
35kg	269	294	781
45kg	201	219	588

※Static allowable load inertia

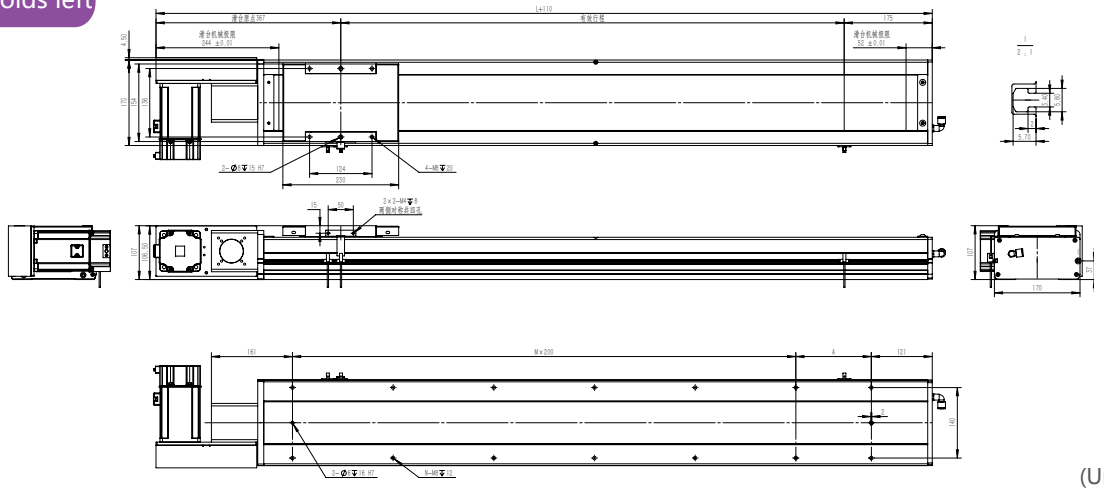
(Unit : N.m)



MY	1032
MP	1034
MR	908

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor folds left

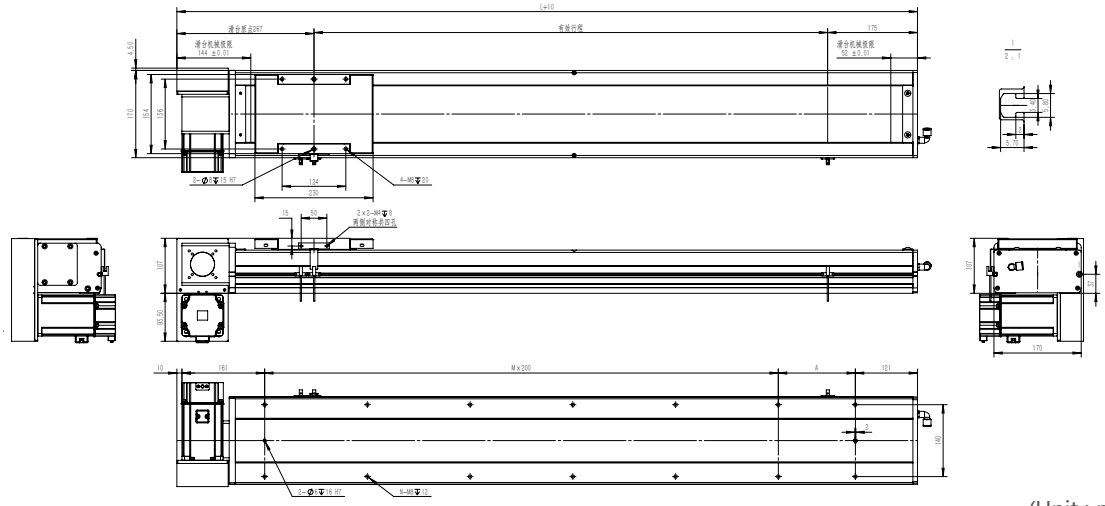


(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	1432	1482	1532	1582	1632	1682	1732	1782	1832	1882	1932	1982
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	13.2	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2032	2082	2132	2182	2232	2282	2332	2382	2432	2482	2532	2582	2632	2682	2732	2782	2832	2882	2932	2982	3032	3082	3132	3182	3232	3282	3332	3382	3432	3482
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8	59.6	60.4	61.2	62	62.8

Motor folds left down



(Unit : mm)

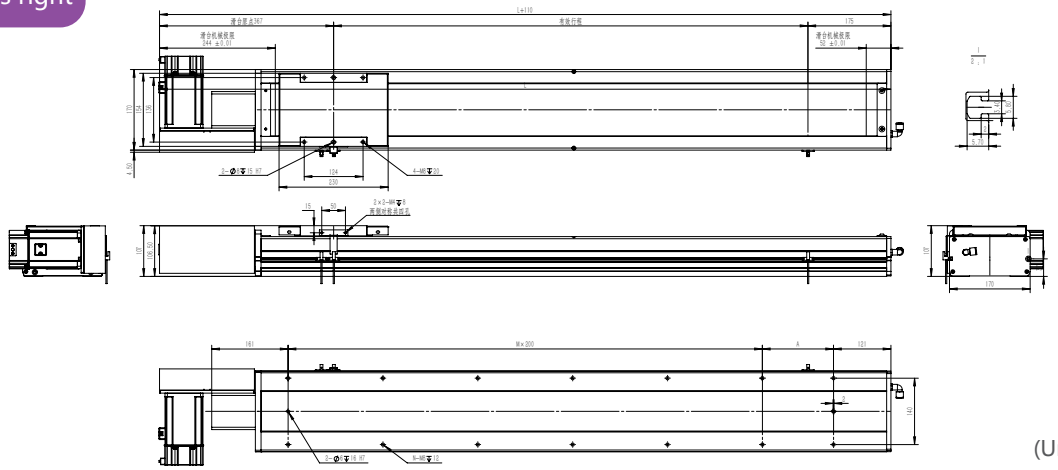
Note: The upper right folding of the motor is symmetrical to this diagram

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	1432	1482	1532	1582	1632	1682	1732	1782	1832	1882	1932	1982
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	13.2	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2032	2082	2132	2182	2232	2282	2332	2382	2432	2482	2532	2582	2632	2682	2732	2782	2832	2882	2932	2982	3032	3082	3132	3182	3232	3282	3332	3382	3432	3482
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8	59.6	60.4	61.2	62	62.8

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Motor folds right

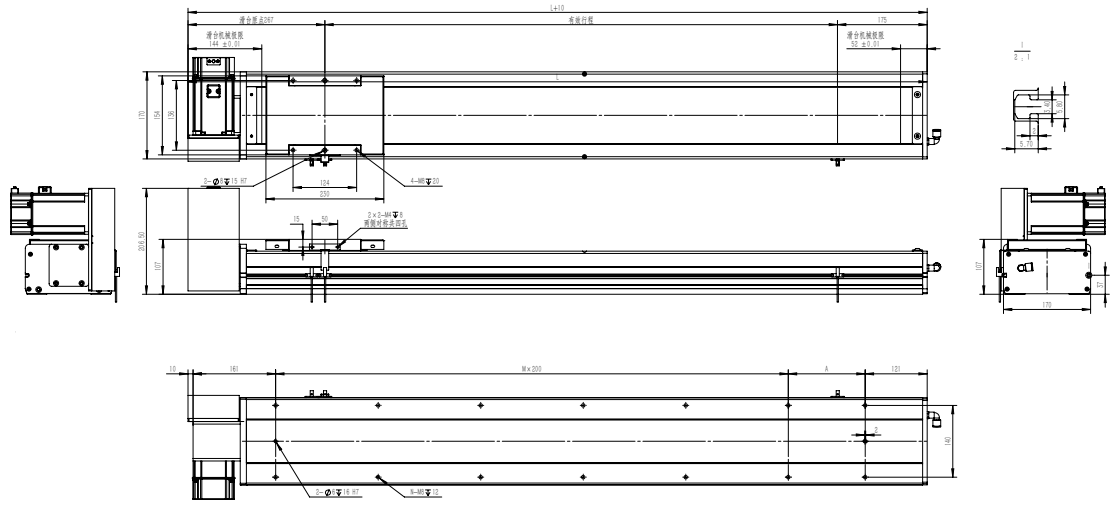


(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	1432	1482	1532	1582	1632	1682	1732	1782	1832	1882	1932	1982
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	13.2	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2032	2082	2132	2182	2232	2282	2332	2382	2432	2482	2532	2582	2632	2682	2732	2782	2832	2882	2932	2982	3032	3082	3132	3182	3232	3282	3332	3382	3432	3482
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8	59.6	60.4	61.2	62	62.8

Motor folds right up



Note: The upper left folding of the motor is symmetrical to this diagram

(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	1432	1482	1532	1582	1632	1682	1732	1782	1832	1882	1932	1982
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
KG	13.2	15	16.8	17.6	18.4	19.1	19.9	20.7	21.5	22.2	23	23.8	24.6	25.3	26.1	26.9	27.7	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2032	2082	2132	2182	2232	2282	2332	2382	2432	2482	2532	2582	2632	2682	2732	2782	2832	2882	2932	2982	3032	3082	3132	3182	3232	3282	3332	3382	3432	3482
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15
N	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34
KG	39.6	40.4	41.2	42	42.8	43.6	44.4	45.2	46	46.8	47.6	48.4	49.2	50	50.8	51.6	52.4	53.2	54	54.8	55.6	56.4	57.2	58	58.8	59.6	60.4	61.2	62	62.8

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

PCB22

PCB22 - L 40 - 100 - L - M75 - C 4 - 0001

Model

Belt specification
L: Dust-free belt
X: Rubber belt

Belt lead
P40: 40mm

Stroke
50-3050mm
50 interval

Motor position
L: Left
LU: Left up
LD: Left down
R: Right
RU: Right up
RD: Right down

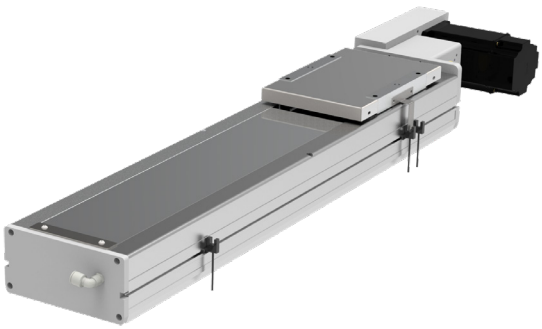
Motor brand, power:
Motor brand

P: Panasonic	20	-
T: Delta	75	750W
M: Mitsubishi	10	-
Y: Yaskawa	40	-

Origin sensor:
Plug-in type
C Motor side
D Anti-motor side
No SENSOR
E No SENSOR

Endpoint limit sensor:
Plug-in type
3 1 pcs
4 2 pcs
No SENSOR
5 No SENSOR

Special specification



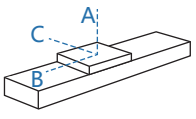
※ Basic specifications

Specification	Repetitive positioning accuracy		±0.08
	Lead mm		40
	Maximum speed mm/s		2000
	Max load (kg)	Horizontal	85
		Vertical	-
	Freeze thrust (N)		367
	Standard stroke mm		20-3500mm/50 interval
Component	AC servo motor capacity		750
	Belt width		45
	High rigidity linear slider		W23×H18
	Origin sensor plug-in		PM-T45(NPN)

※1、Motor acceleration and deceleration are set to 0.4 seconds.

※ Allowable load torque table

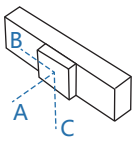
(Unit : mm)



Horizontal installation	A	B	C
45kg	1588	600	349
65kg	1052	328	285
85kg	768	281	206

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

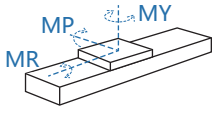
(Unit : mm)



Side installation	A	B	C
40kg	500	685	1805
60kg	315	430	1152
85kg	206	281	768

※Static allowable load inertia

(Unit : mm)

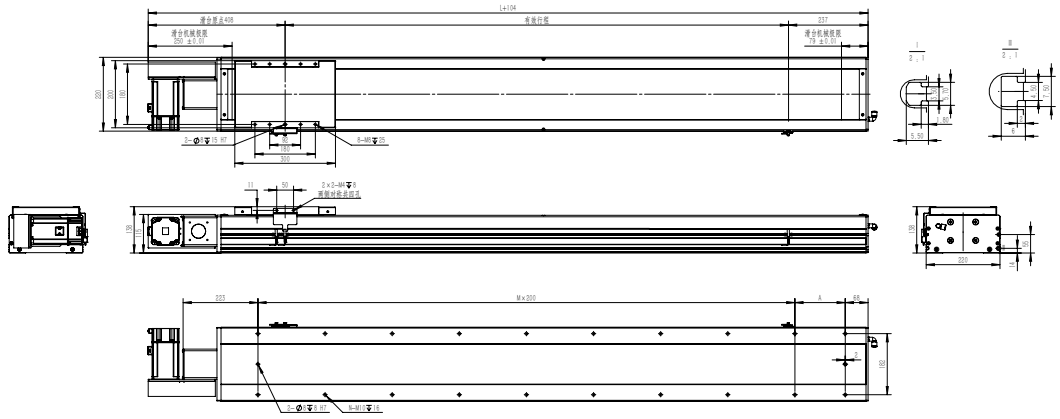


(Unit : N.m)

MY	2052
MP	2052
MR	1810

※ The data represented by the torque table represents the center of gravity.
※ Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
※ The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor folds left

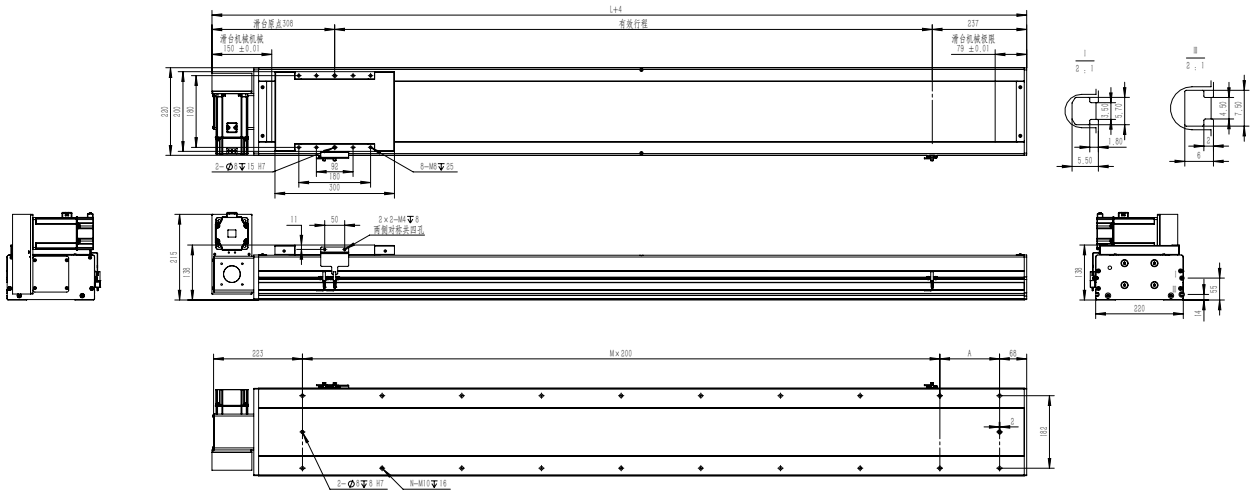


(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	591	641	691	741	791	841	891	941	991	1041	1091	1141	1191	1241	1291	1341	1391	1441	1491	1541	1591	1641	1691	1741	1791	1841	1891	1941	1991	2041	2091
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20
KG	31.8	33	34.2	35.4	36.6	37.8	39	40.2	41.4	42.6	43.8	45	46.2	43.8	45	46.2	47.4	48.6	49.8	51	52.2	53.4	54.6	55.8	57	58.2	59.4	60.6	61.8	63	64.2

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2141	2191	2241	2291	2341	2391	2441	2491	2541	2591	2641	2691	2741	2791	2841	2891	2941	2991	3041	3091	3141	3191	3241	3291	3341	3391	3441	3491	3541	3591
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16
N	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36
KG	69	70.2	71.4	72.6	73.8	75	76.2	77.4	78.6	79.8	81	82.2	83.4	84.6	85.8	87	88.2	89.4	90.6	91.8	93	94.2	95.4	96.6	97.8	99	100.2	101.4	102.6	103.8

Motor folds left up



Note: The upper right folding of the motor is symmetrical to this diagram

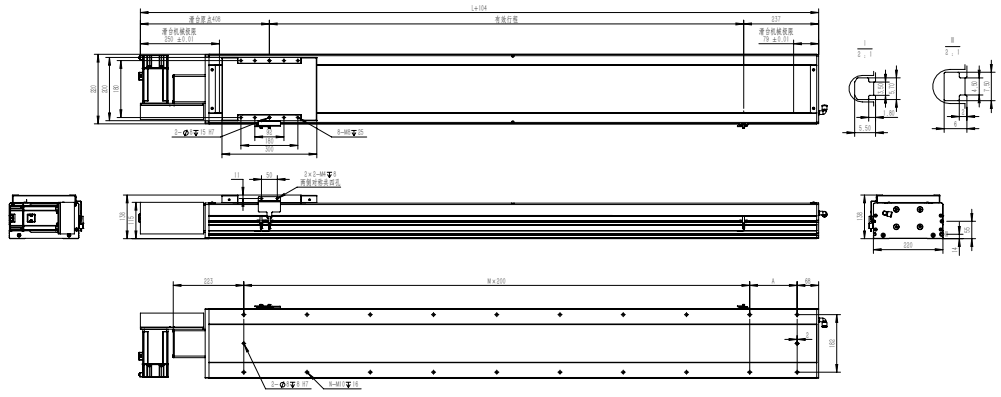
(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	591	641	691	741	791	841	891	941	991	1041	1091	1141	1191	1241	1291	1341	1391	1441	1491	1541	1591	1641	1691	1741	1791	1841	1891	1941	1991	2041	2091
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20
KG	31.8	33	34.2	35.4	36.6	37.8	39	40.2	41.4	42.6	43.8	45	46.2	43.8	45	46.2	47.4	48.6	49.8	51	52.2	53.4	54.6	55.8	57	58.2	59.4	60.6	61.8	63	64.2

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2141	2191	2241	2291	2341	2391	2441	2491	2541	2591	2641	2691	2741	2791	2841	2891	2941	2991	3041	3091	3141	3191	3241	3291	3341	3391	3441	3491	3541	3591
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16
N	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36
KG	69	70.2	71.4	72.6	73.8	75	76.2	77.4	78.6	79.8	81	82.2	83.4	84.6	85.8	87	88.2	89.4	90.6	91.8	93	94.2	95.4	96.6	97.8	99	100.2	101.4	102.6	103.8

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Motor folds left

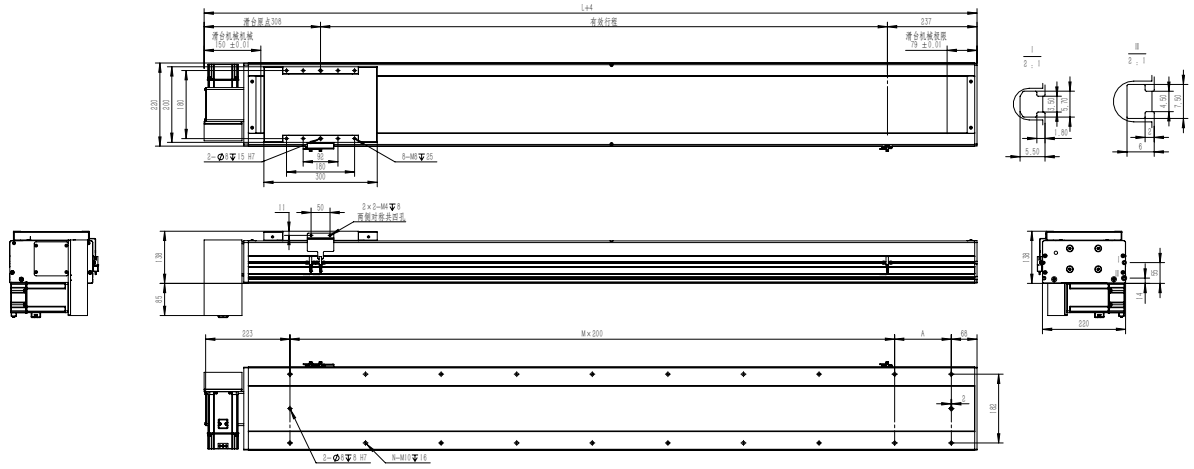


(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	591	641	691	741	791	841	891	941	991	1041	1091	1141	1191	1241	1291	1341	1391	1441	1491	1541	1591	1641	1691	1741	1791	1841	1891	1941	1991	2041	2091
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20
KG	31.8	33	34.2	35.4	36.6	37.8	39	40.2	41.4	42.6	43.8	45	46.2	43.8	45	46.2	47.4	48.6	49.8	51	52.2	53.4	54.6	55.8	57	58.2	59.4	60.6	61.8	63	64.2

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2141	2191	2241	2291	2341	2391	2441	2491	2541	2591	2641	2691	2741	2791	2841	2891	2941	2991	3041	3091	3141	3191	3241	3291	3341	3391	3441	3491	3541	3591
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16
N	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36
KG	69	70.2	71.4	72.6	73.8	75	76.2	77.4	78.6	79.8	81	82.2	83.4	84.6	85.8	87	88.2	89.4	90.6	91.8	93	94.2	95.4	96.6	97.8	99	100.2	101.4	102.6	103.8

Motor folds right up



Note: The down right folding of the motor is symmetrical to this diagram

(Unit : mm)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	591	641	691	741	791	841	891	941	991	1041	1091	1141	1191	1241	1291	1341	1391	1441	1491	1541	1591	1641	1691	1741	1791	1841	1891	1941	1991	2041	2091
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20
KG	31.8	33	34.2	35.4	36.6	37.8	39	40.2	41.4	42.6	43.8	45	46.2	43.8	45	46.2	47.4	48.6	49.8	51	52.2	53.4	54.6	55.8	57	58.2	59.4	60.6	61.8	63	64.2

Stroke	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050
L	2141	2191	2241	2291	2341	2391	2441	2491	2541	2591	2641	2691	2741	2791	2841	2891	2941	2991	3041	3091	3141	3191	3241	3291	3341	3391	3441	3491	3541	3591
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16
N	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36
KG	69	70.2	71.4	72.6	73.8	75	76.2	77.4	78.6	79.8	81	82.2	83.4	84.6	85.8	87	88.2	89.4	90.6	91.8	93	94.2	95.4	96.6	97.8	99	100.2	101.4	102.6	103.8

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

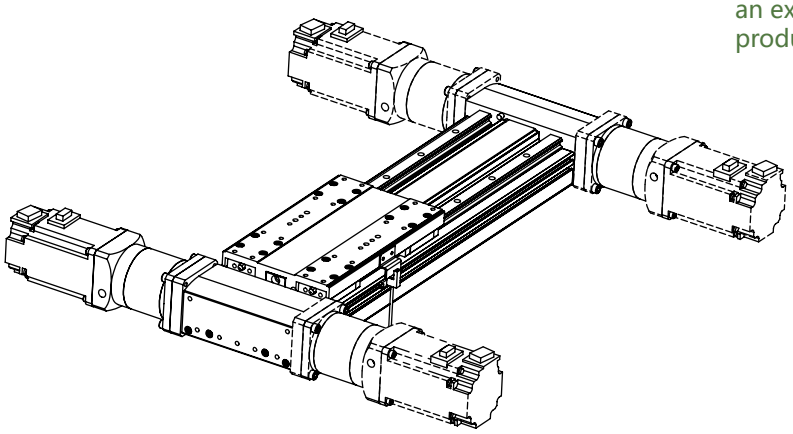
08 >>>

EGT Series timing belt slide



New heavy-duty guideway
—Withstands max load and torque
—High feed force and speed
—Long service life

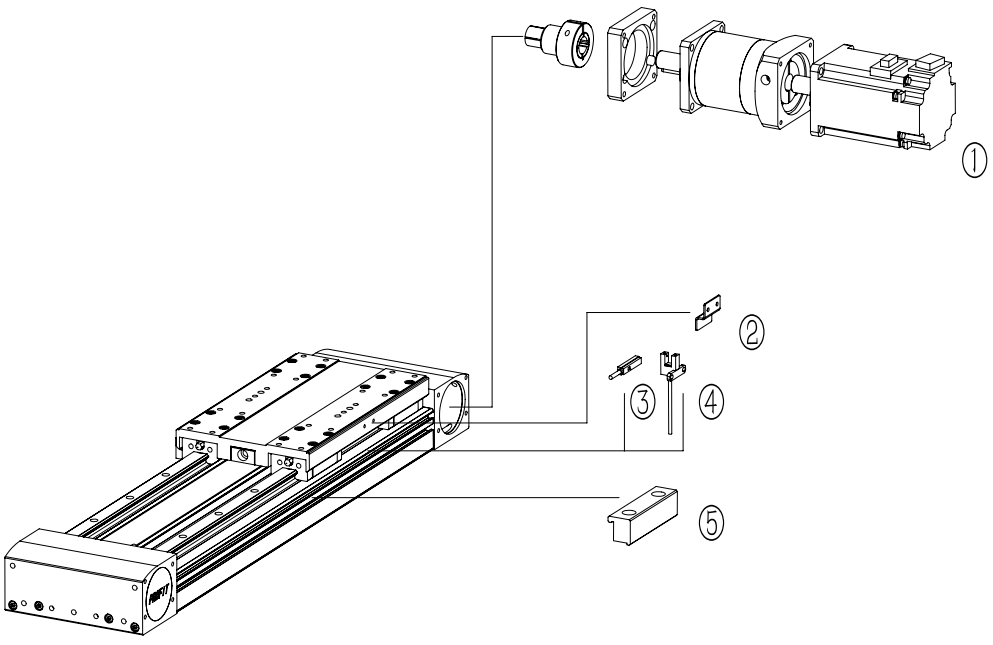
—The double rail guides precise and high-load capacity
—Suitable as a base shaft for linear gantries and cantilever electric cylinders
—In addition to the technical parameters, the belt cylinder is also an excellent price-performance product



—Space-saving position-sensing, proximity switches can be installed in profile slots

Flexible motor installation
The motor can be mounted on either side of the four sides of the cylinder and can be converted at any time

① Motor
② Sensor sheets
③ Magnetic switch
④ Photoelectric switch
⑤ Fixed briquettes



EGT70

EGT70 -	400 -	R	- D -	M	200 W -	S 3
Model	Strokemm	Shaft direction	Motor connection	Motor brand	Motor power	Switch number
EGT 70 EGT 70L		L：Left R：Right B：Both	D:Direct installation	M:Mitsubishi Y:Yaskawa T:Delta P:Panasonic		S1:Switch*1 Sn:Switch*n No:No Switch

Parameters

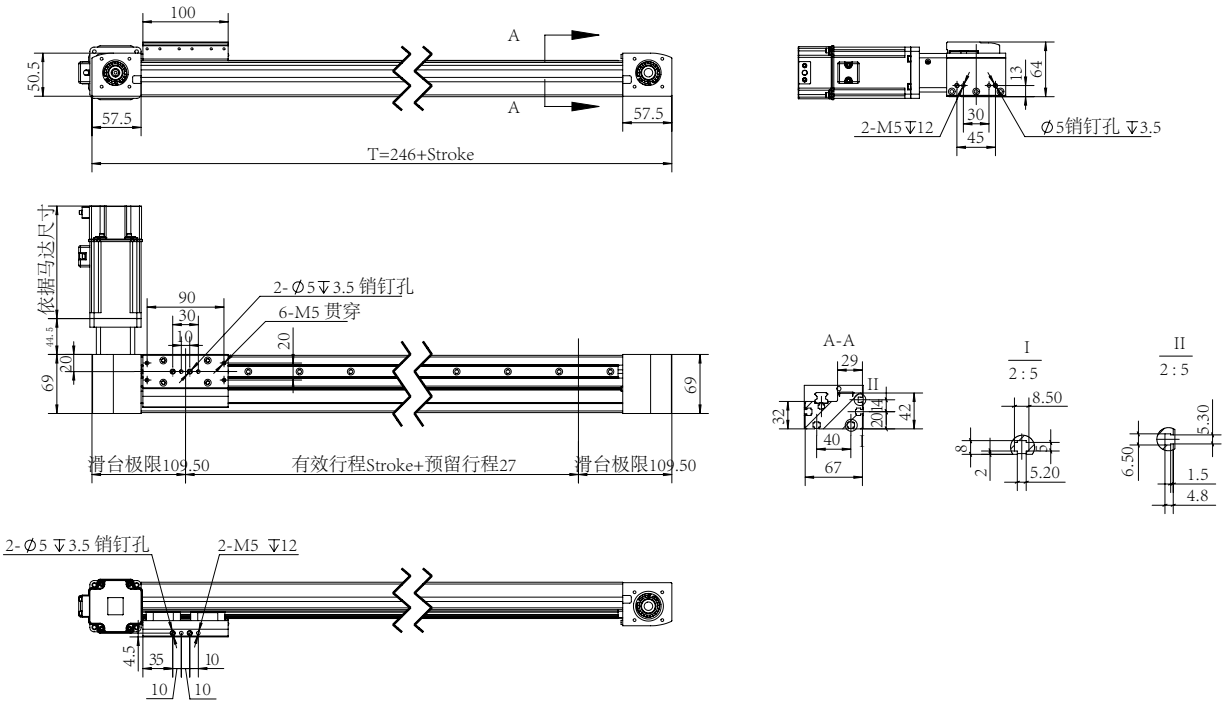
Standard motor output（W）		200			400		
Rated torque（N·m）		0.64			1.27		
Repeatable positioning accuracy（mm）		±0.08					
Max stroke（mm）		100-5000mm/interval50mm					
Timing belt specification		15×3（lead 78mm）					
Reduction ratio		No	3:1	/	No	3:1	/
Max speed（mm/s）		3900	1300	/	3900	1300	/
Max horizontal load（kg）		4	12	/	8	15	/
Max load (kg)	EGT70	12					
	EGT70L	15					
Basic weight（0mm stroke kg）		EGT70:3.67			EGT70L:4.08		
Increase weight (per 100mm stroke kg)		0.34					
Magnetic reed switch		CS1-D-1M contact type, wire length 1m /CS1-DN-3 contactless transistor NPN type, wire length 3m/CS1-DP-3M contactless transistor PNP type, wire length 3m					
Photoelectric switch		PM-T45			NPN type wire length1M		
		PM-T45-P			PNP type wire length1M		
Briquettes		Page 166 for details					

Note:
1、Belt thrust formula:
F=（Pw×1020×η）/V
F: Output thrust，Unit N；Pw: Motor power，Unit KW；η: Efficiency, generally takes 0.85；V: Transfer speed, Unit m/s（rated speed）



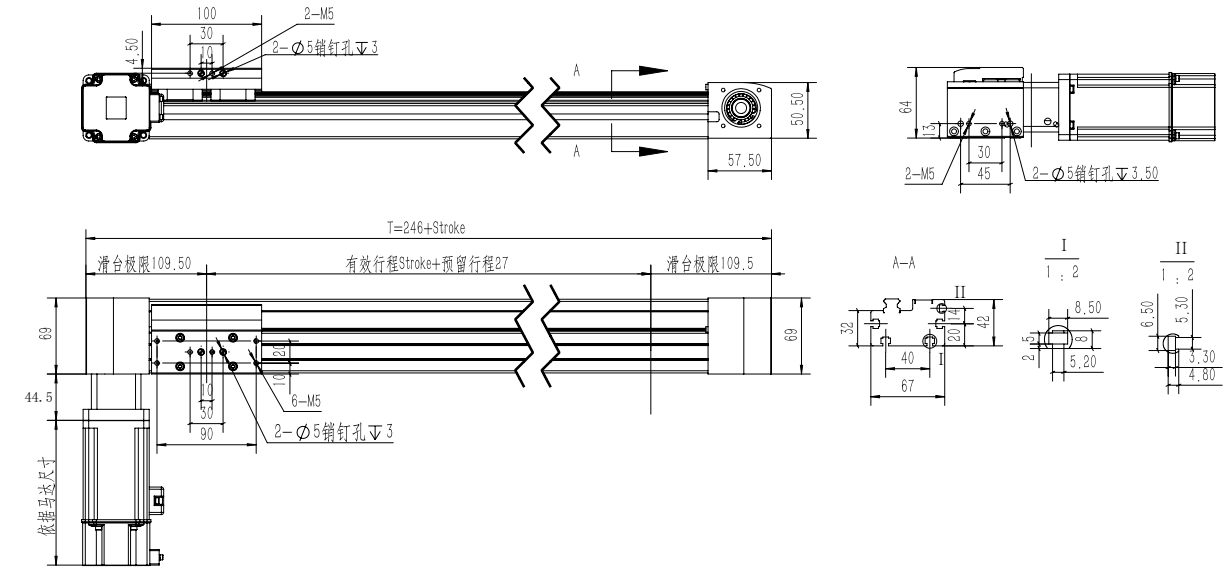
EGT70-L-D

Unit:mm



EGT70-R-D

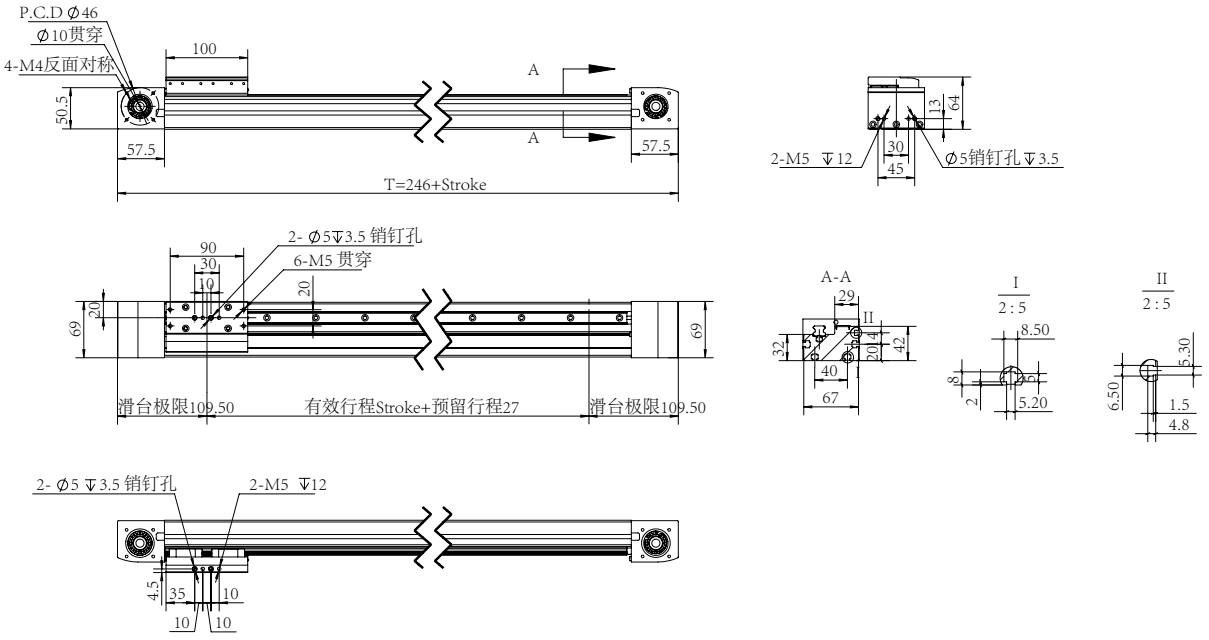
Unit:mm



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

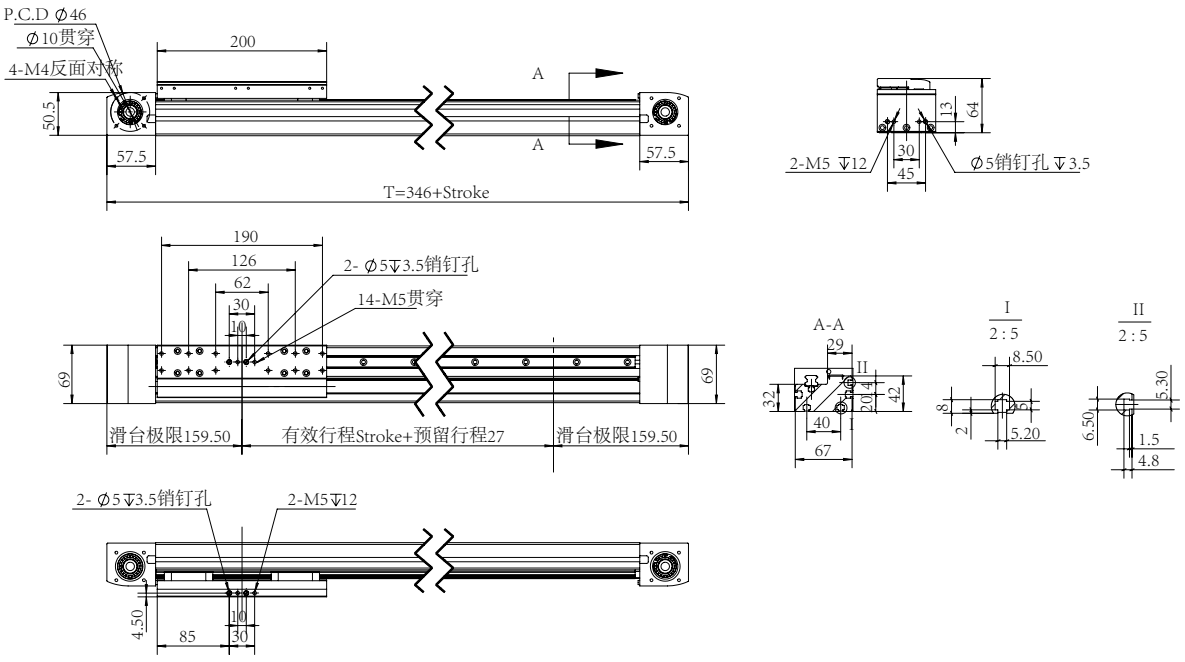
EGT70 裸缸

Unit:mm



EGT70L 裸缸

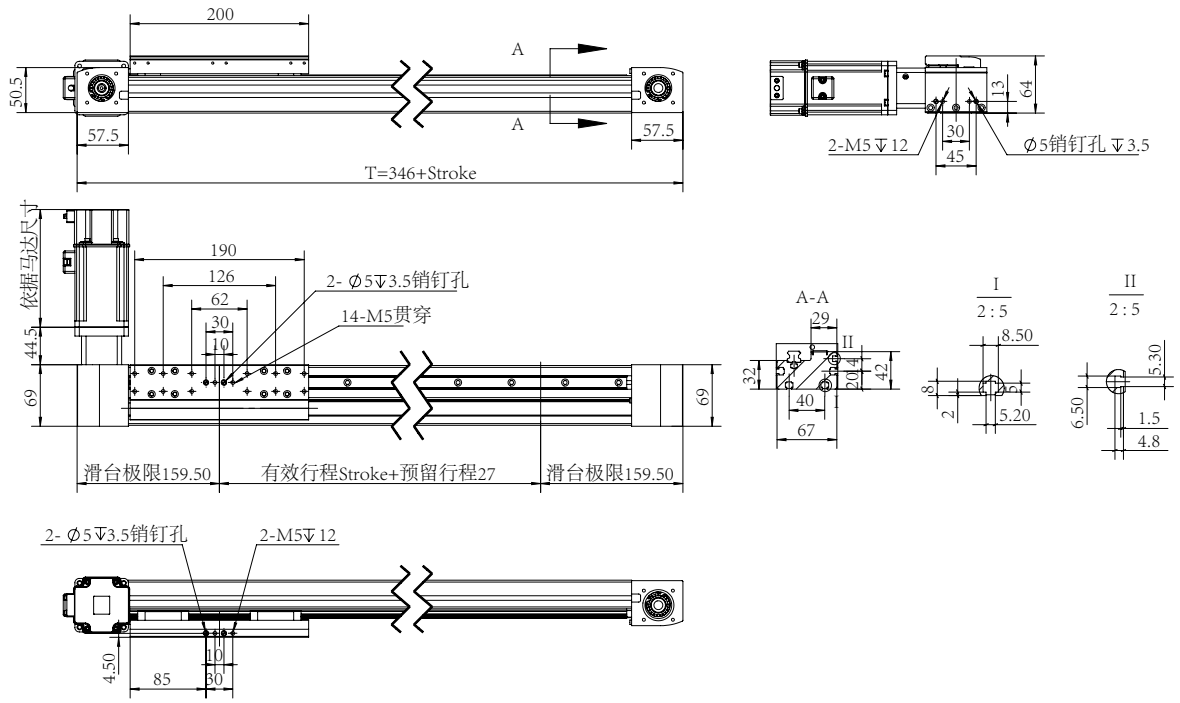
Unit:mm



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

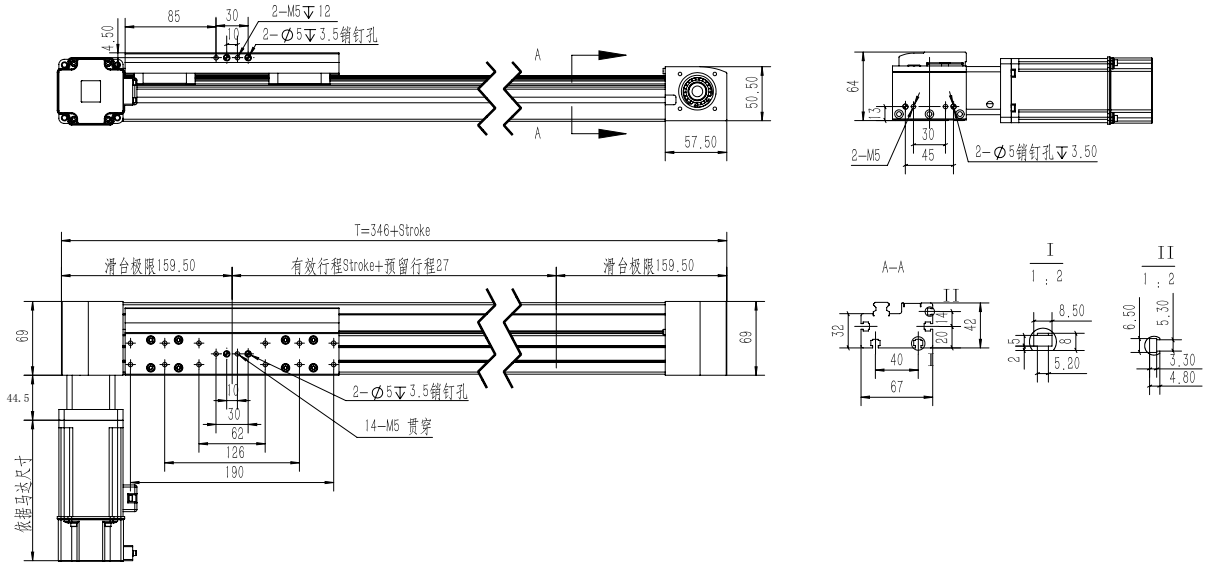
EGT70L-L-D

Unit:mm



EGT70L-R-D

Unit:mm



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

EGT80

EGT80 -	400 -	R	- D -	M -	400 W -	S 3
Model	Strokemm	Shaft direction	Motor connection	Motor brand	Motor power	Switch number
EGT 80 EGT 80L		L：Left R：Right B：Both	D:Direct installation	M:Mitsubishi Y:Yaskawa T:Delta P:Panasonic		S1:Switch*1 Sn:Switch*n No:No Switch

Parameters

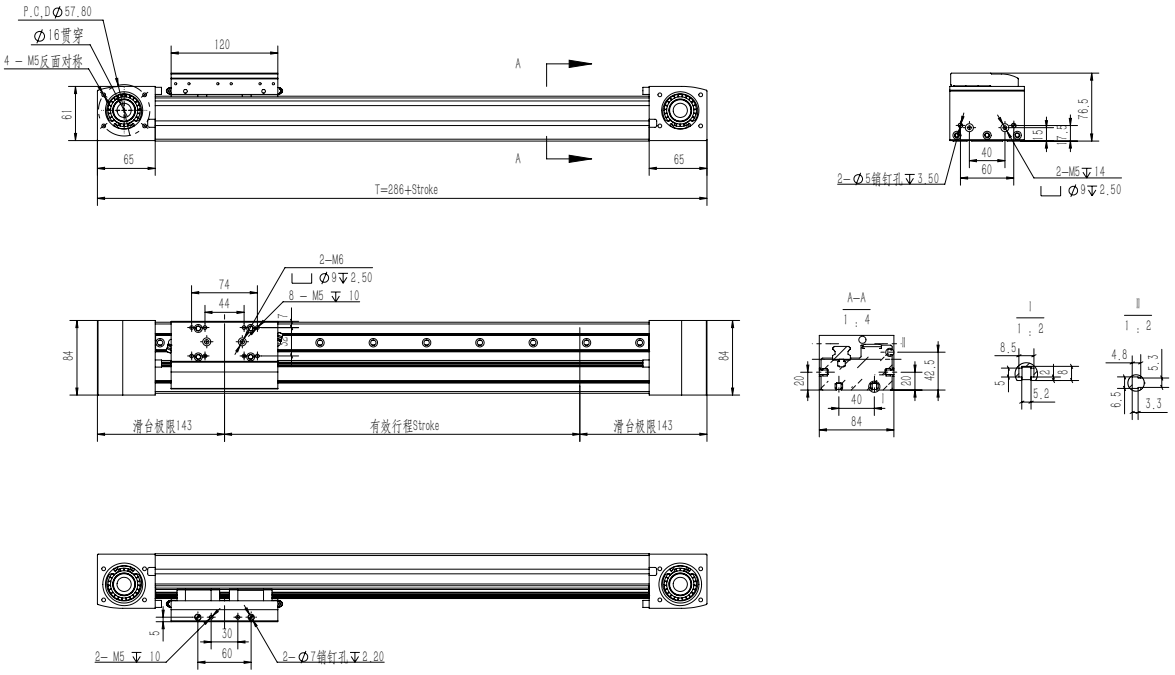
Standard motor output（W）		200			400		
Rated torque（N·m）		0.64			1.27		
Repeatable positioning accuracy (mm)		±0.08					
Max stroke（mm）		100-5000mm/interval50mm					
Timing belt specification		20×3（lead90mm）					
Reduction ratio		No	3:1	5:1	No	3:1	/
Max speed（mm/s）		4500	1500	900	4500	1500	/
Max horizontal load（kg）		4	11	15	8	20	/
Max load (kg)	EGT70	15					
	EGT70L	20					
Basic weight（0mm stroke kg）		EGT80:4.36			EGT80L:5.08		
Increase weight (per 100mm stroke kg)		0.52					
Magnetic reed switch		CS1-D-1M contact type, wire length 1m /CS1-DN-3 contactless transistor NPN type, wire length 3m/CS1-DP-3M contactless transistor PNP type, wire length 3m.					
Photoelectric switch		PM-T45			NPNtype wire length1M		
		PM-T45-P			PNPtype wire length1M		
Briquettes		Page 166 for details					

Note:
1、Belt thrust formula:
F=（Pw×1020×η）/V
F: Output thrust, Unit N; Pw: Motor power, Unit KW; η: Efficiency, generally takes 0.85; V: Transfer speed, Unit m/s（rated speed）



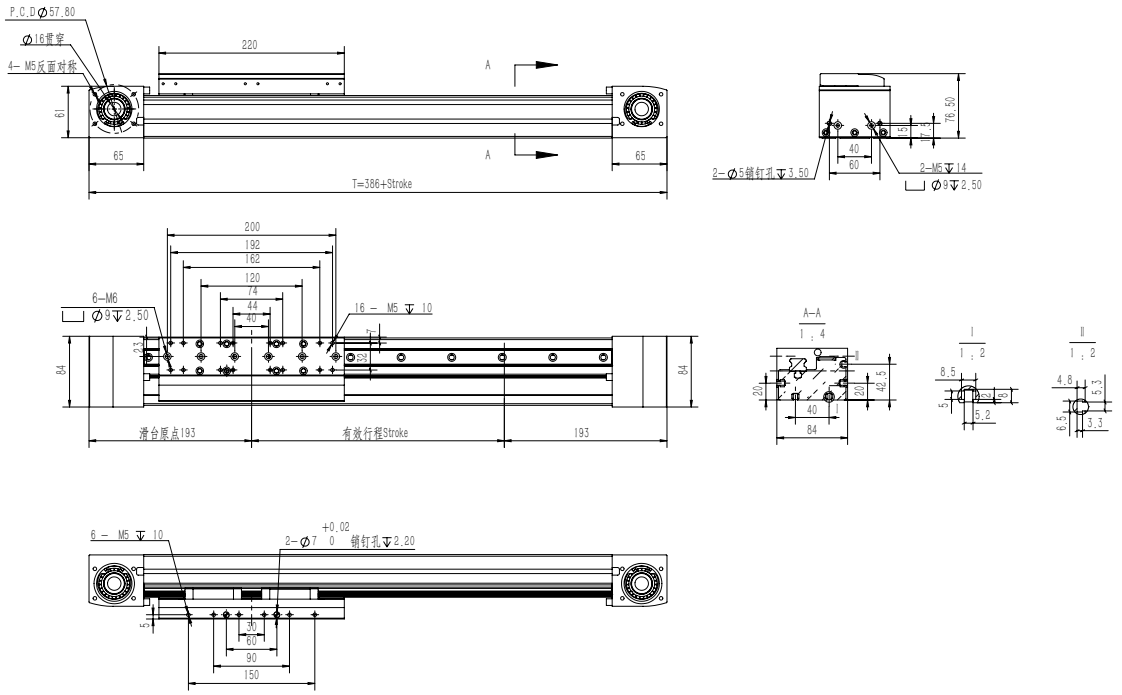
EGT80 Bare cylinder

Unit:mm



EGT80L Bare cylinder

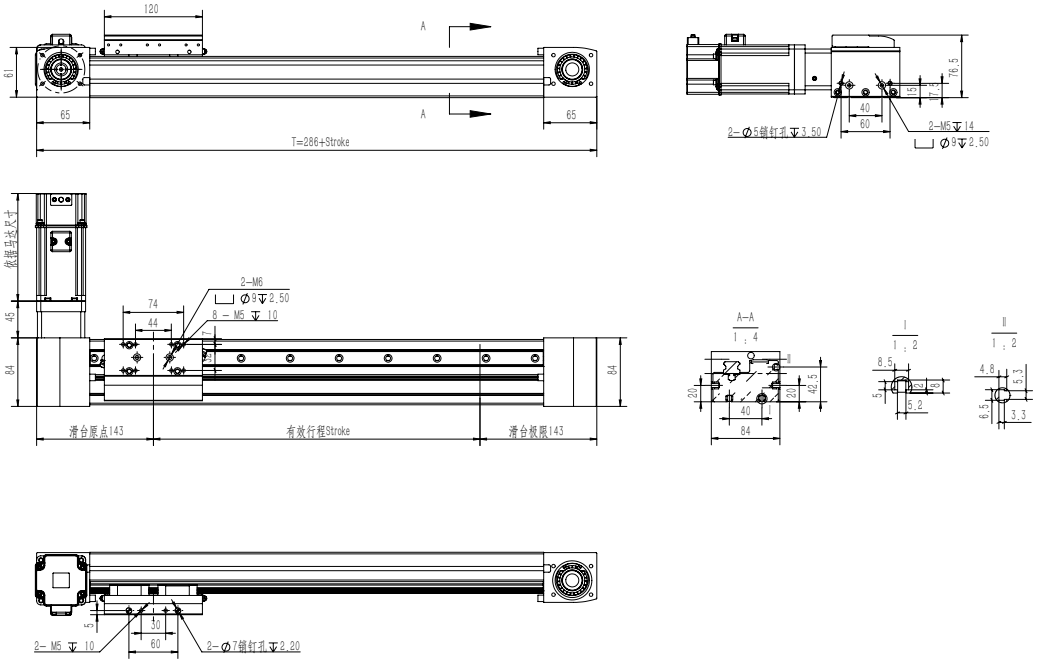
Unit:mm



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

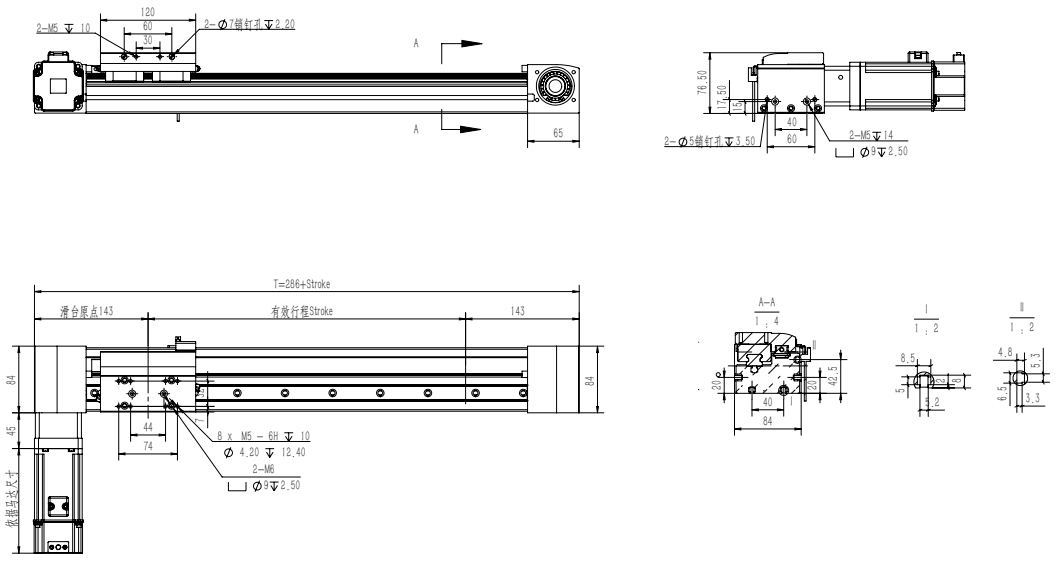
EGT80-L-D

Unit:mm



EGT80-R-D

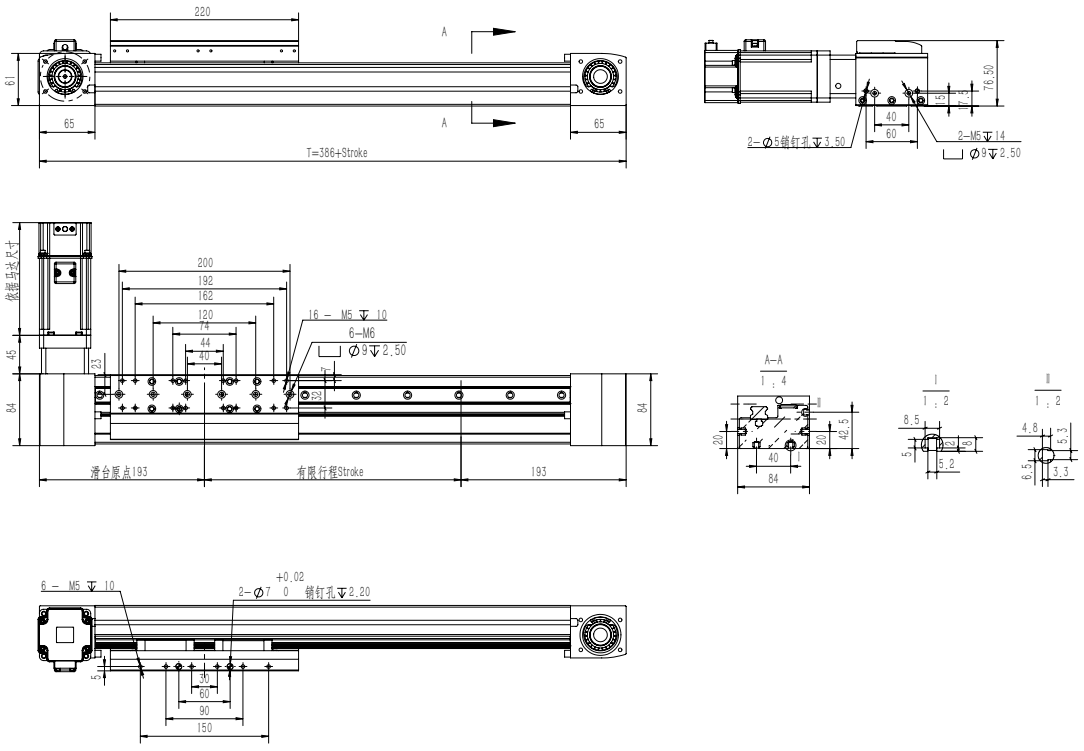
Unit:mm



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

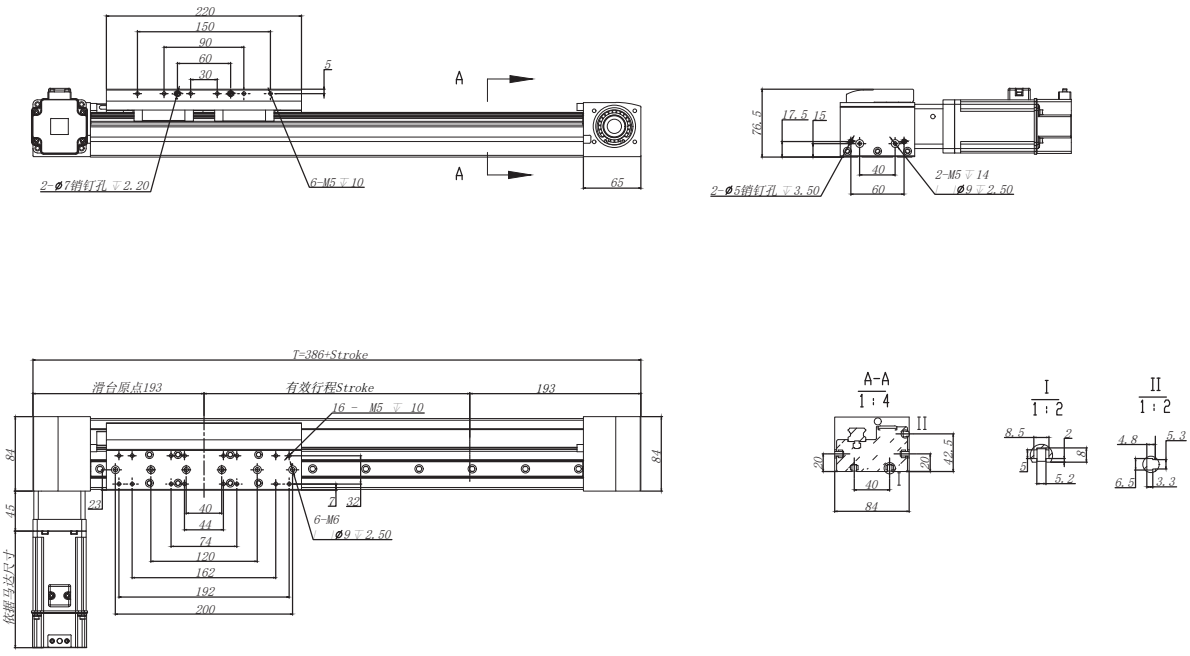
EGT80L-L-D

Unit:mm



EGT80L-R-D

Unit:mm



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

EGT120

EGT120 -	400 -	R	- D -	K3	M -	750 W -	S 3
Model	Strokemm	Shaft direction	Motor connection	reduction ratio	Motor brand	Motor power	Switch numb
EGT 120		L：Left R：Right B：Both	D:Direct installation	3 5 7 10 ...	M:Mitsubishi Y:Yaskawa T:Delta P:Panasonic		S1:Switch*1 Sn:Switch*n No:No Switc

Parameters

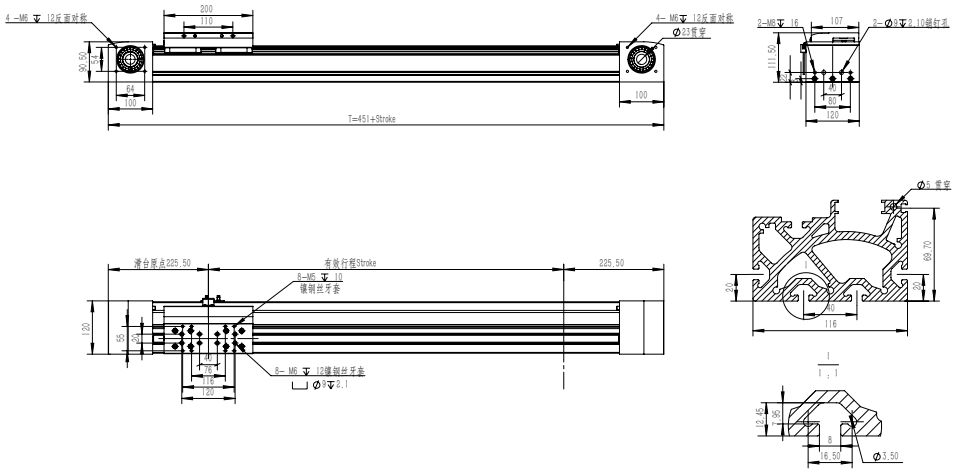
Standard motor output (W)	750W			
Rated torque (N·m)	2.4			
Repeatable positioning accuracy (mm)	±0.08			
Max stroke (mm)	100-5000mm / interval 50mm			
Timing belt specification	45×5（lead125mm）			
Reduction ratio	3:1	5:1	7:1	10:1
Max speed (mm/s)	2080	1250	890	625
Max load (kg)	30	50	70	100
Basic weight（0mm stroke kg）	12.7			
Increase weight (per 100mm stroke kg)	1.5			
Magnetic reed switch	CS1-D-1M contact type, wire length 1m /CS1-DN-3 contactless transistor NPN type, wire length 3m/CS1-DP-3M contactless transistor PNP type, wire length 3m			
Photoelectric switch	PM-T45			NPN type wire length 1M
	PM-T45-P			PNP type wire length 1M
Briquettes	Page 166 for details			

Note:
1、Belt thrust formula:
F=（Pw×1020×η）/V
F：Output thrust，Unit N；Pw: Motor power，Unit KW；η: Efficiency, generally takes 0.85；V: Transfer speed, Unit m/s（rated speed）



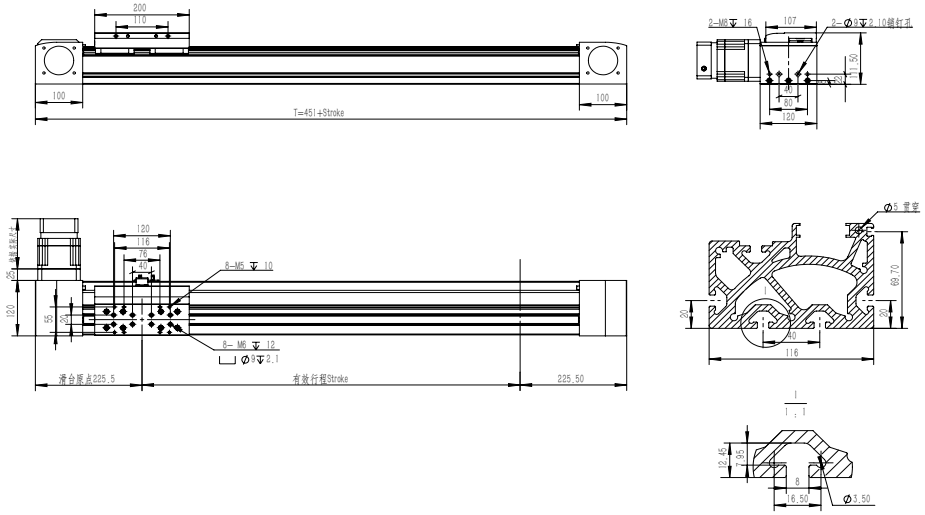
EGT120 Bare cylinder

Unit:mm



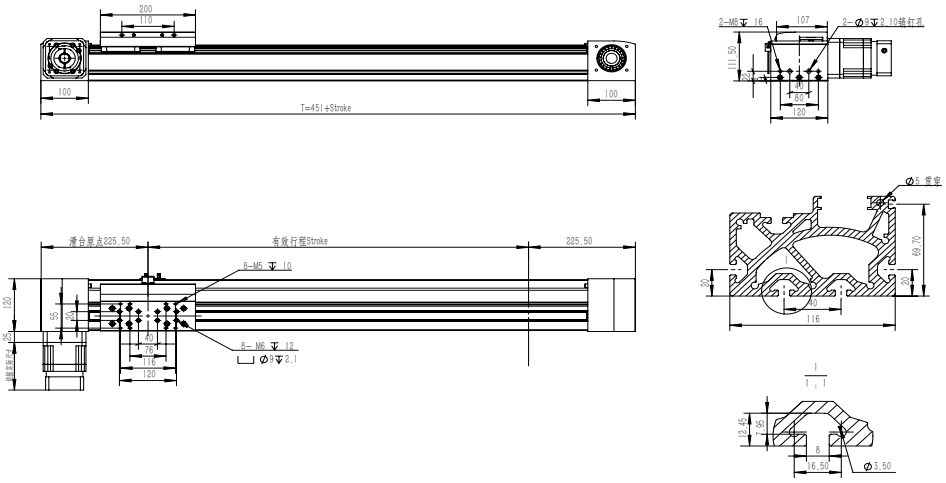
EGT120-L-D

Unit:mm



EGT120-R-D

Unit:mm



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

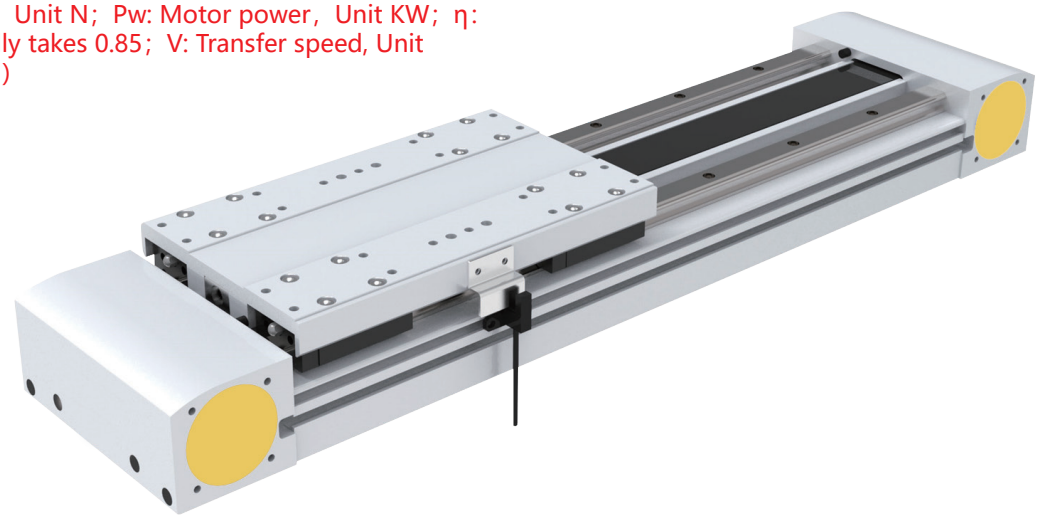
EGT125

EGT125 -	400 -	R -	D -	K3	- M	400 W	- S3
Model	Stroke	Shaft direction	Motor connection	Ratio	Motor brand	Motor power	Switch number
EGT 125		L: Left R: Right B: Both	D:Direct installation	3 5 7 10	M: Mitsubishi Y: Yaskawa T: Delta P: Panasonic		S1: Switch*1 Sn: Switch*n No: No Switch

Parameters

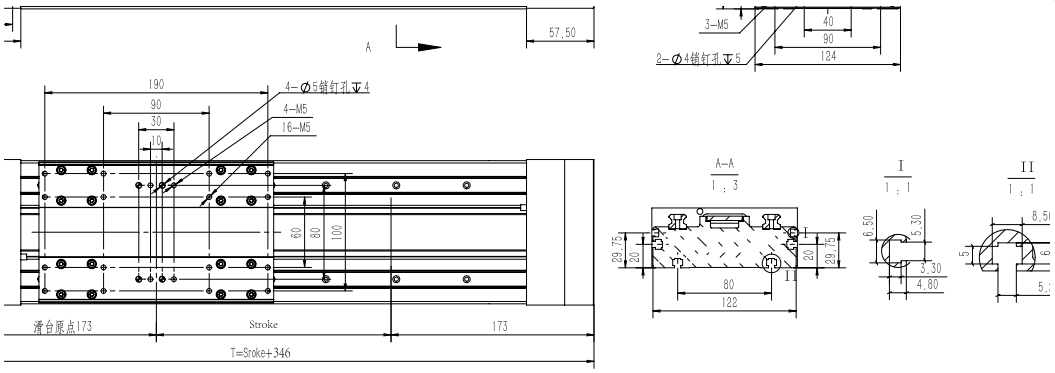
Standard motor output (W)	400			
Rated torque（N·m）	1.27			
Repeatable positioning accuracy (mm)	±0.08			
Max stroke (mm)	100-6000mm/interval 50mm			
Timing belt specification	30×5（lead 100mm）			
Reduction ratio	3:1	5:1	7:1	/
Max speed（mm/s）	1666	1000	714	/
Max horizontal load（kg）	20	34	40	/
Max load（kg））	40			
Basic weight（0mm stroke kg）	7.6			
Increase weight (per 100mm stroke kg)	0.8			
Magnetic reed switch	CS1-D-1M contact type, wire length 1m /CS1-DN-3 contactless transistor NPN type, wire length 3m/CS1-DP-3M contactless transistor PNP type, wire length 3m			
Photoelectric switch	PM-T45	NPN type wire length 1M		
	PM-T45-P	PNP type wire length 1M		
Briquettes	Page 166 for details			

Note:
1、Belt thrust formula:
F=（Pw×1020×η）/V
F: Output thrust，Unit N；Pw: Motor power，Unit KW；η: Efficiency, generally takes 0.85；V: Transfer speed, Unit m/s（rated speed）



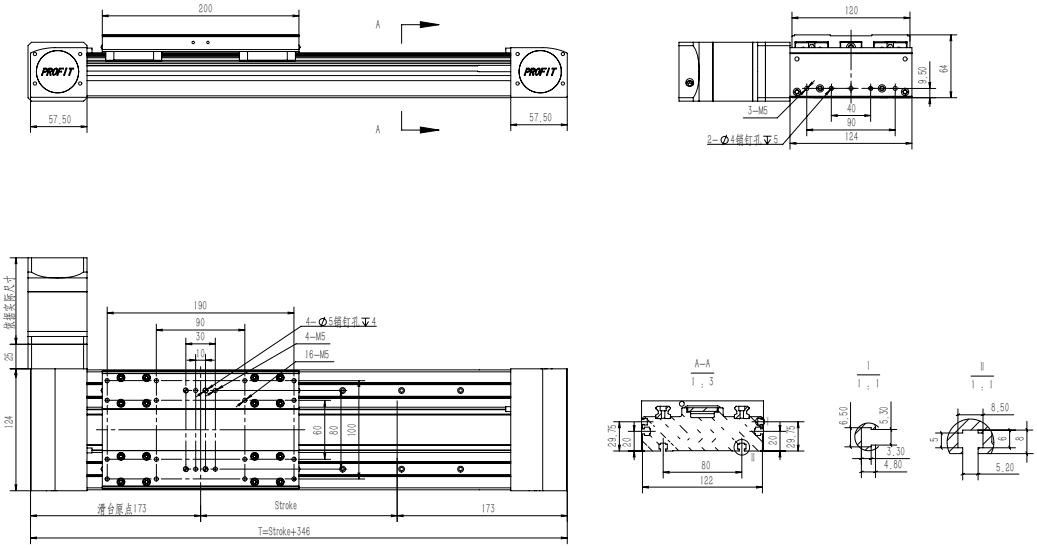
EGT125 Bare cylinder

Unit:mm



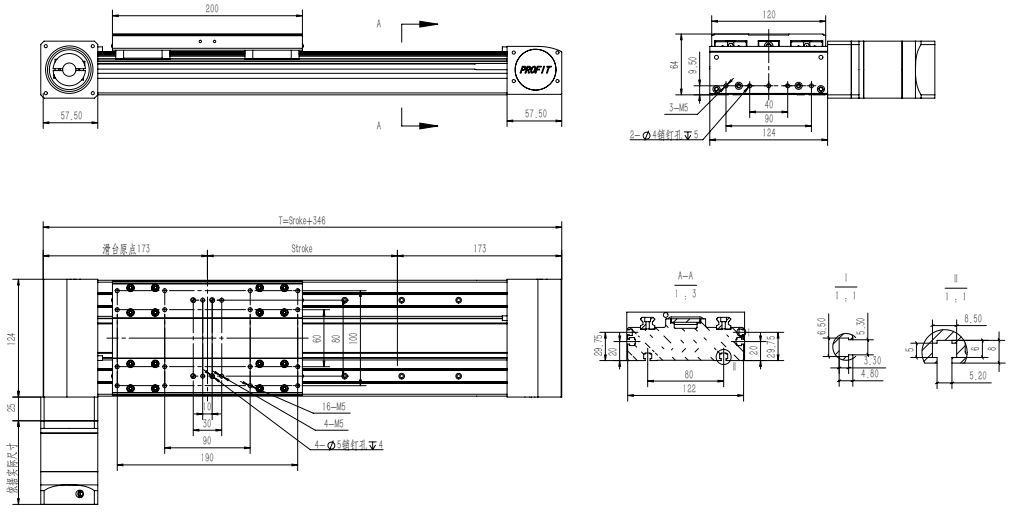
EGT125-L-D

Unit:mm



EGT125-R-D

Unit:mm



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

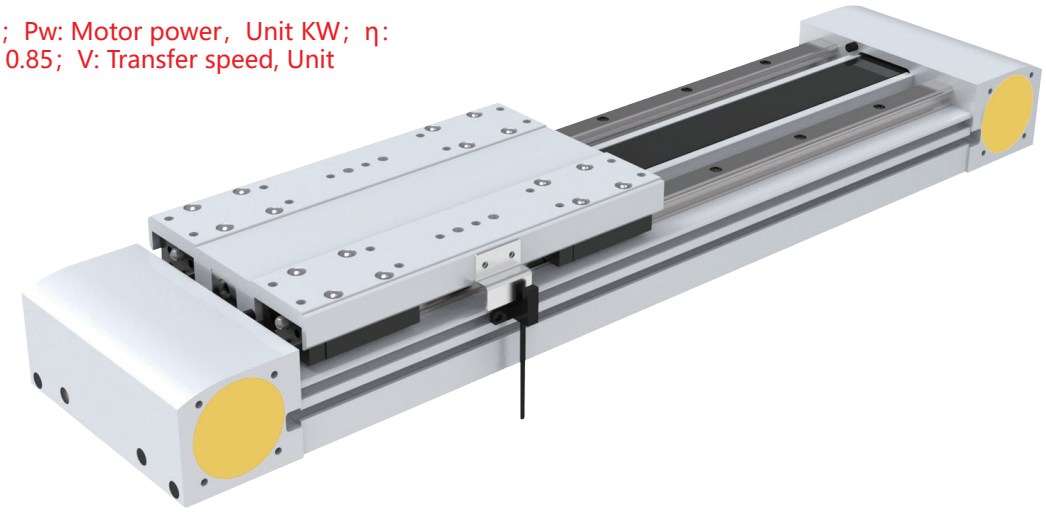
EGT160

EGT160 -	400 -	R -	D -	K3	- M	750 W	- S3
Model	Stroke	Shaft direction	Motor connection	Ratio	Motor brand	Motor power	Switch number
EGT 160		L: Left R: Right B: Both	D:Direct installation	3 5 7 10	M: Mitsubishi Y: Yaskawa T: Delta P: Panasonic		S1: Switch*1 Sn: Switch*n No: No Switch

Parameters

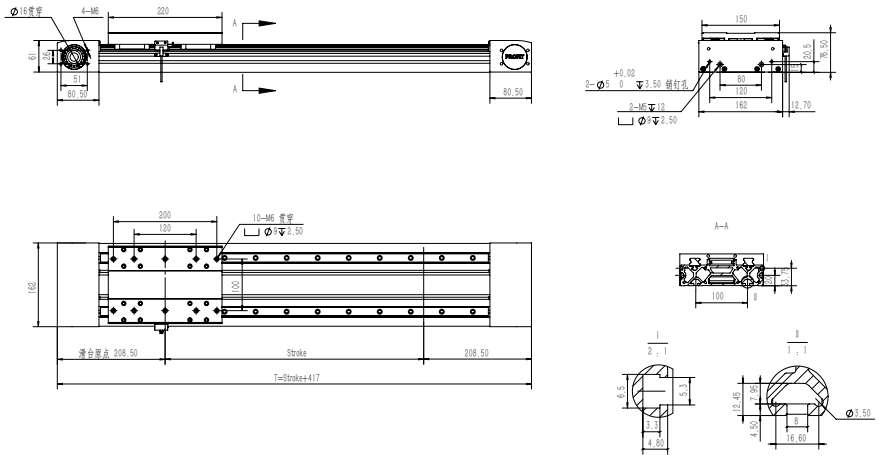
Standard motor output (W)	750			
Rated torque（N·m）	2.4			
Repeatable positioning accuracy (mm)	±0.08			
Max stroke (mm)	100-5000mm/interva 50mm			
Timing belt specification	45×5（lead125mm）			
Reduction ratio	3:1	5:1	7:1	10:1
Max speed（mm/s）	2080	1250	890	625
Max horizontal load（kg）	30	50	70	100
Max load（kg）	100			
Basic weight（0mm stroke kg）	10.2			
Increase weight (per 100mm stroke kg)	1.2			
Magnetic reed switch	CS1-D-1M contact type, wire length 1m /CS1-DN-3 contactless transistor NPN type, wire length 3m/CS1-DP-3M contactless transistor PNP type, wire length 3m			
Photoelectric switch	PM-T45	NPN type wire length 1M		
	PM-T45-P	PNP type wire length 1M		
Briquettes	Page 166 for details			

Note:
1、Belt thrust formula:
F=（Pw×1020×η）/V
F: Output thrust, Unit N; Pw: Motor power, Unit KW; η: Efficiency, generally takes 0.85; V: Transfer speed, Unit m/s（rated speed）



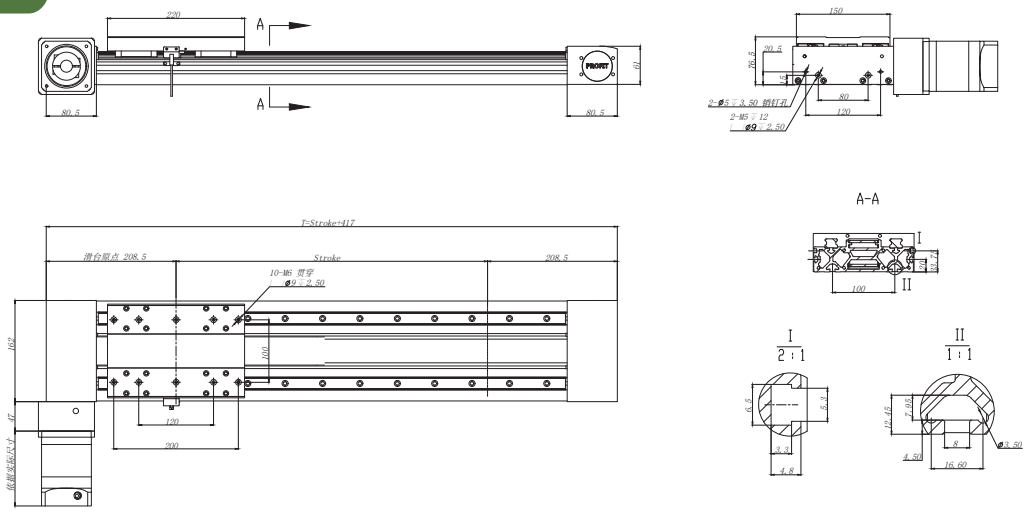
EGT160 Bare cylinder

Unit:mm



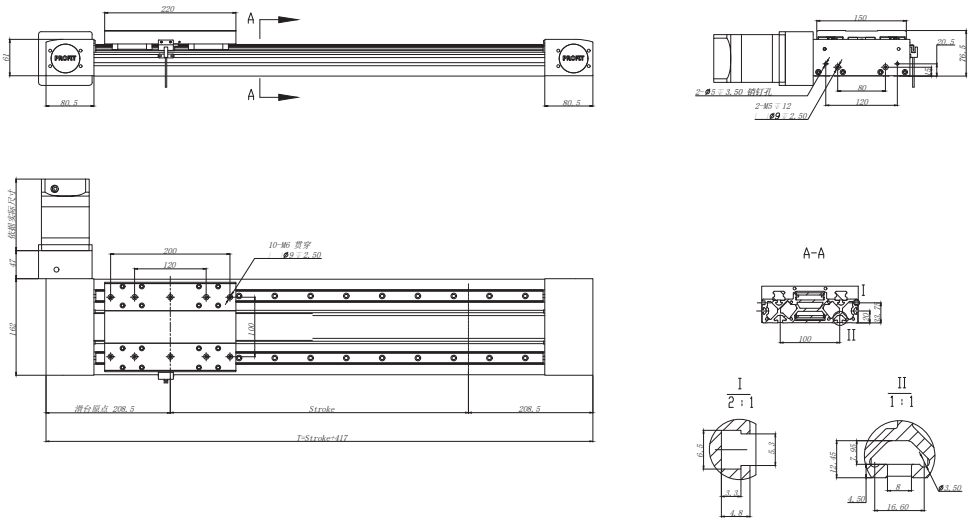
EGT160-R-D

Unit:mm



EGT160-L-D

Unit:mm



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

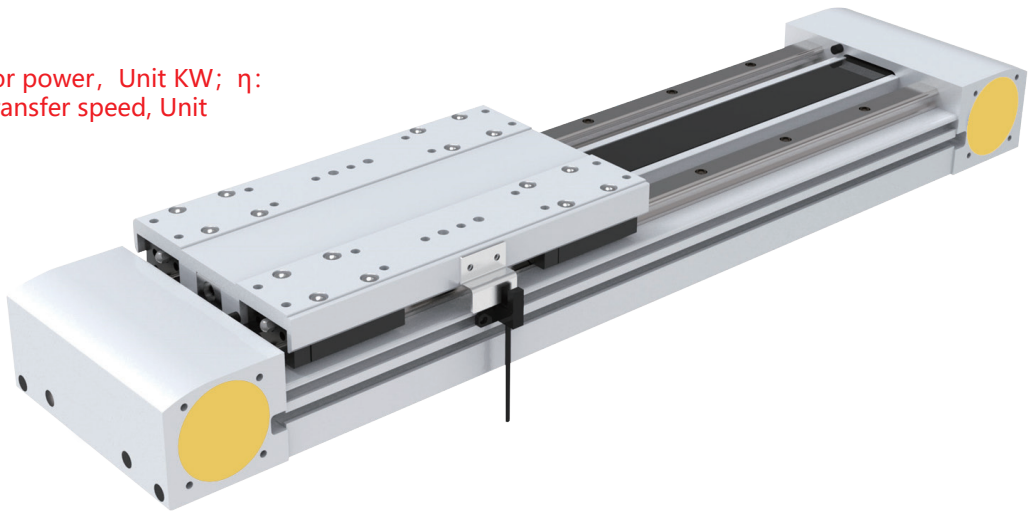
EGT220

EGT 220 -	400 -	R -	D -	K3	- M	1000 W	- S3
Model	Stroke	Shaft direction	Motor connection	Ratio	Motor brand	Motor power	Switch number
EGT 220		L: Left R: Right B: Both	D:Direct installation	3 5 7 10	M: Mitsubishi Y: Yaskawa T: Delta P: Panasonic		S1: Switch*1 Sn: Switch*n No: No Switch

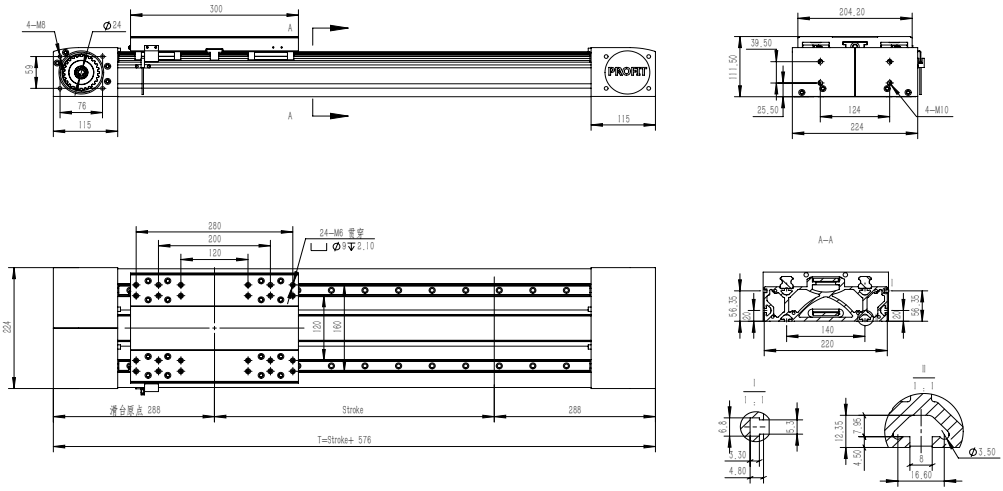
Parameters

Standard motor output（W）	1500			
Rated torque（N·m）	7.16			
Repeatable positioning accuracy (mm)	±0.08			
Max stroke（mm）	100-5000mm/interval 50mm			
Timing belt specification	45×8（lead208mm）			
Reduction ratio	3:1	5:1	7:1	10:1
Max speed（mm/s）	2300	1380	990	690
Max horizontal load（kg）	55	90	130	180
Max load（kg）	200			
Basic weight（0mm stroke kg）	25.8			
Increase weight (per 100mm stroke kg)	2.1			
Magnetic reed switch	CS1-D-1M contact type, wire length 1m /CS1-DN-3 contactless transistor NPN type, wire length 3m/CS1-DP-3M contactless transistor PNP type, wire length 3m			
Photoelectric switch	PM-T45		NPN type wire length 1M	
	PM-T45-P		PNP type wire length 1M	
Briquettes	Page 166 for details			

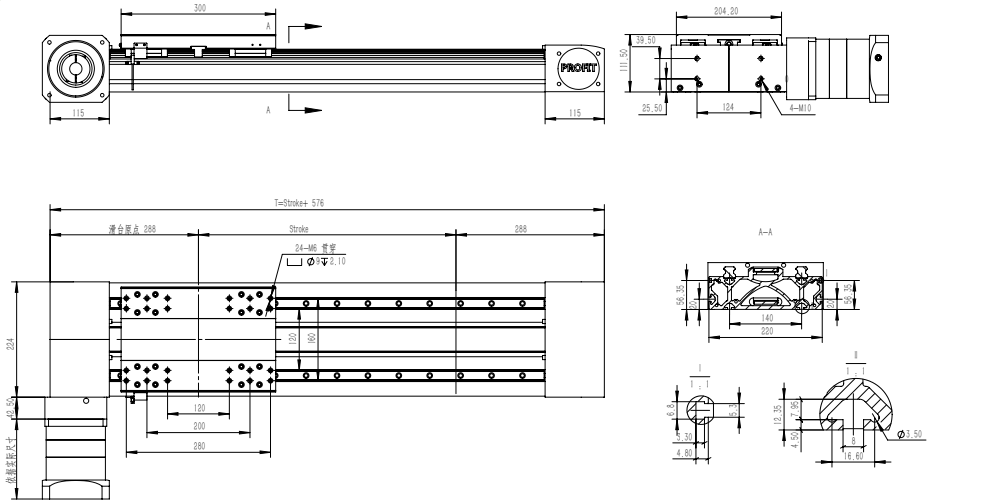
Note:
1、Belt thrust formula:
F=（Pw×1020×η）/V
F: Output thrust, Unit N; Pw: Motor power, Unit KW; η: Efficiency, generally takes 0.85; V: Transfer speed, Unit m/s（rated speed）



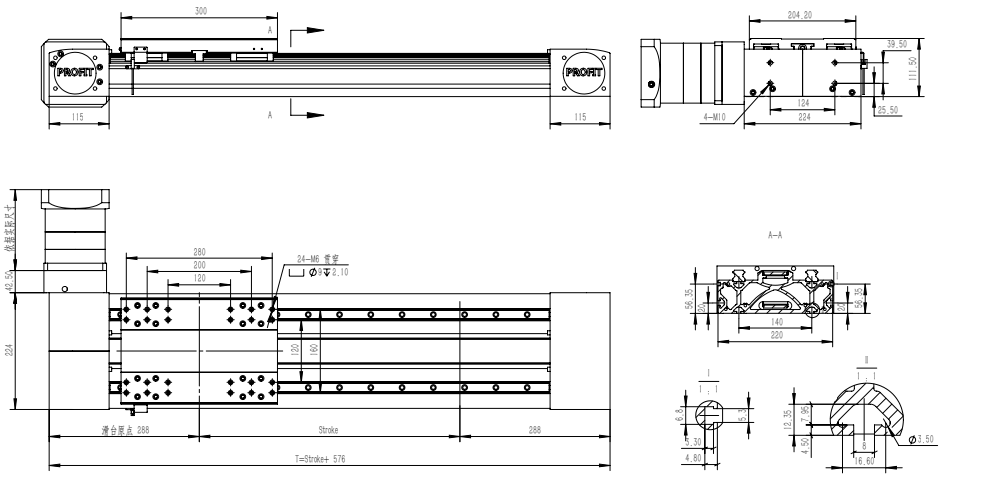
EGT220 Bare cylinder



EGT220-R-D

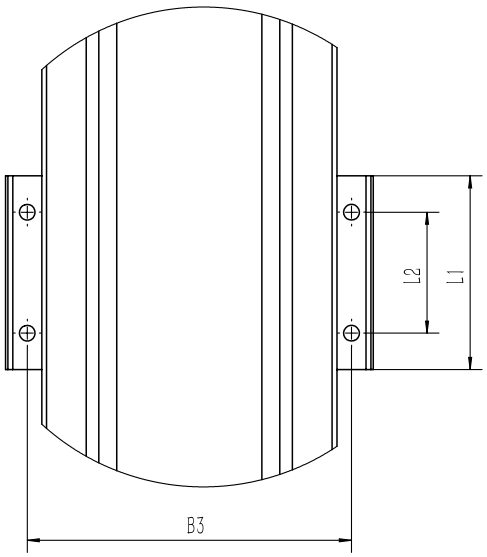


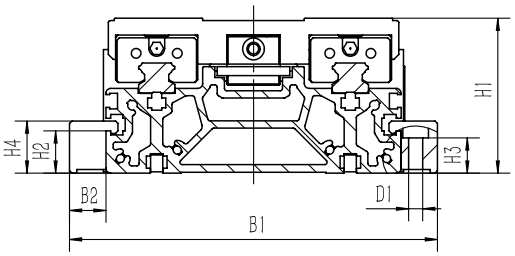
EGT220-L-D



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Briquettes



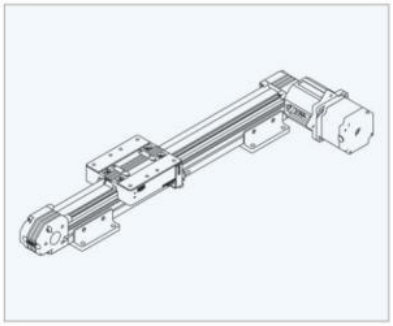


Model	Usage	B1	B2	B3	φD1	H1	H2	H3	H4	L1	L2
YKEGT70	EGT70	97	15	79	6.5	64	17.4	14.5	21.5	80	50
	EGT80	110	15	92	6.5	76.5	17.4	14.5	21.5	80	50
	EGT125	152	15	134	6.5	64	17.4	14.5	21.5	80	50
	EGT160	190	15	172	6.5	76.5	17.4	14.5	21.5	80	50
YKEGT220	EGT120	262	21	238	8.5	111.5	15.9	13.5	21.9	100	70
	EGT220	262	21	238	8.5	111.5	15.9	13.5	21.9	100	70

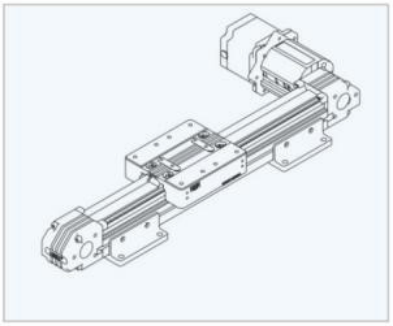
09 STP series economical belt module



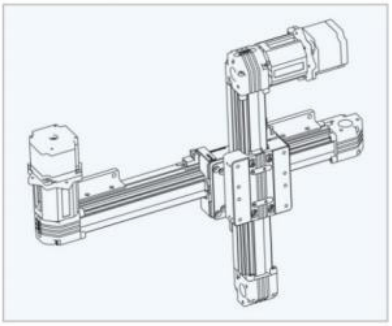
常规结构模组搭建



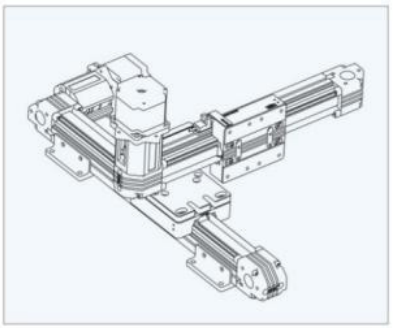
M01-01 一维右出轴



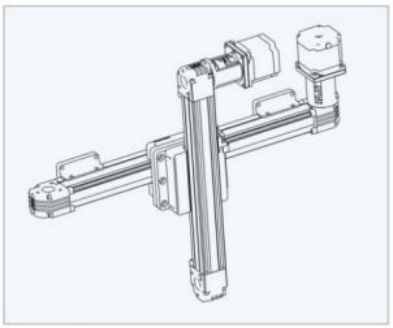
M01-02 一维左出轴



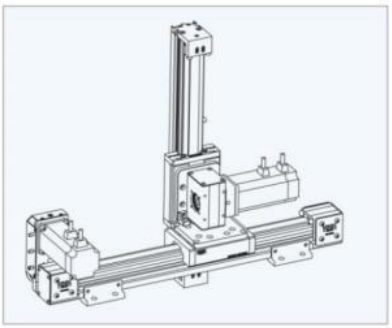
M02-01 二维十字（标准）



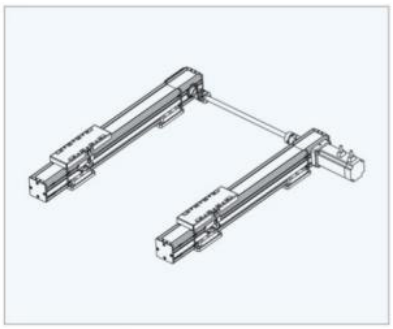
M02-02 二维悬臂搭建



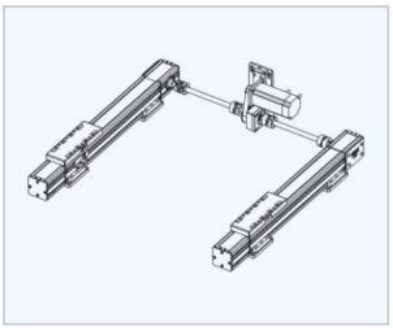
M02-03 二维十字（型材动）



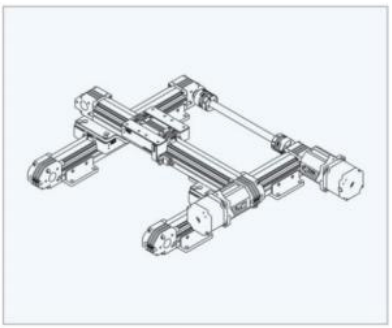
M02-04 二维十字（电滑台M）



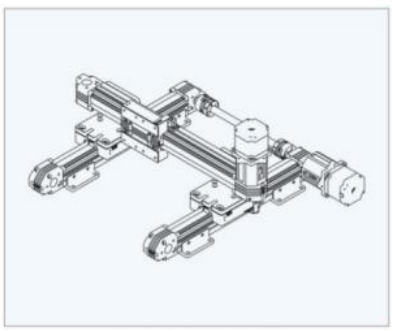
M03-01 双轨同步搭建



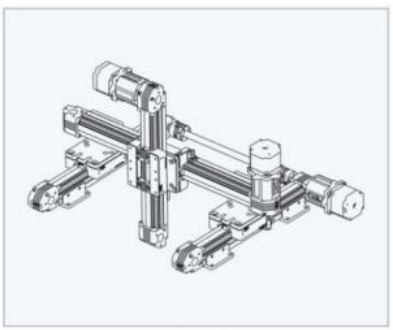
M03-02 双轨同步中置



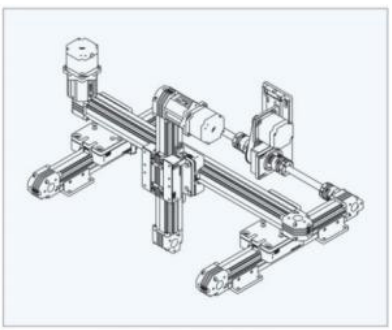
M04-01二维横梁平放



M04-02二维横梁侧放



M05-01三维XYZ搭建

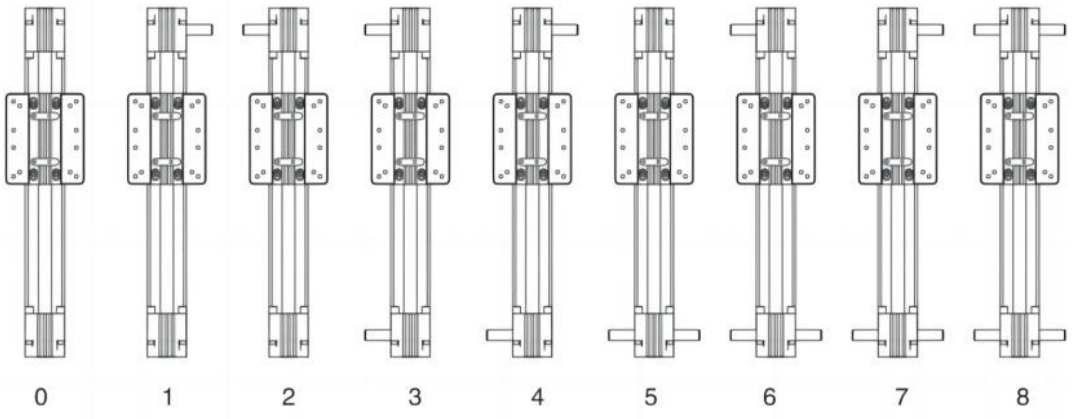


M05-02三维XYZ中置

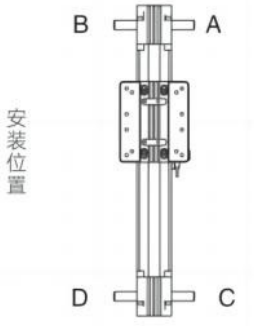
出轴方式及电机连接方式

▶同步带驱动
Synchronous belt drive

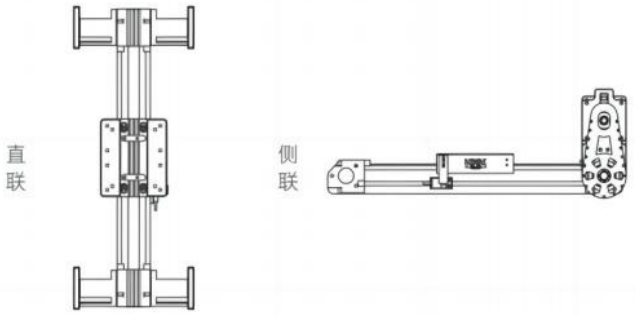




模组出轴方式



电机/驱动轴安装区位



电机联接方式

STP40

STP40 -	100 -	1A -	D -	M20 -	S3
Model	Stroke	Out Axis direction	Motor Connection mode	Motor band	Switches
		As shown in P178	D: Direct mount	M: Mitsubishi 200W	
			P : Side mounted installation	Y: Yaskawa 200W	
			PU: Fold up and connect to the side	T: Delta 200W	
			PD:Fold down side connection	P: Panasonic 200W	
				S: 57 stepper	

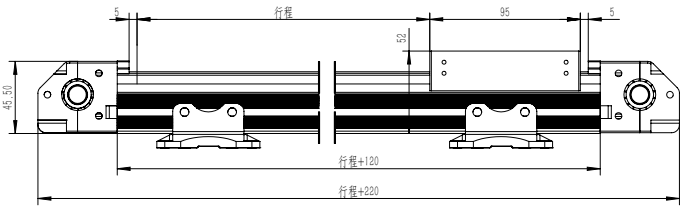
Parameter

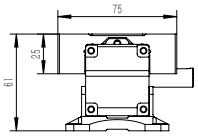
Repeatability mm	±0.1
Guide mm	75
Suggested speed	≤ 700
Reference load Horizontal kg	3
Stroke Pitch mm	100-3850 Pitch 50
Suitable for motor	57 Stepper /60 Servo
Synchronous wheel	HTD3M(number of teeth25)
Straightness	≤ 0.05/300mm
Coupling	12x8 12x14
Photoelectric switch Outside	PM-Y45(Default: NPN)

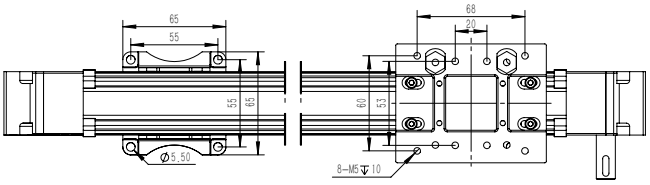
Note: Different side connection methods may result in shorter travel, please be aware

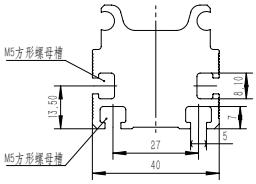


STP40









*Default motor installation thread: M4 for 400W

STP45

STP45 -	100 -	1A -	D -	M20 -	S3
Model	Stroke	Out Axis direction	Motor Connection mode	Motor band	Switches
		As shown in P178	D： Direct mount	M： Mitsubishi 400W	
			P : Side mounted installation	Y： Yaskawa 400W	
			PU: Fold up and connect to the side	T： Delta 400W	
			PD:Fold down side connection	P： Panasonic 400W	
				S: 57 stepper	

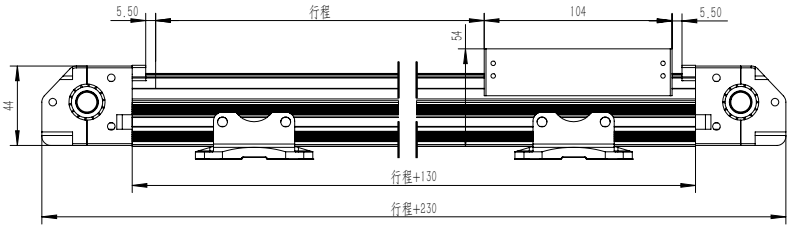
Parameter

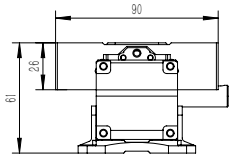
Repeatability mm	±0.1
Guide mm	75
Suggested speed	≤ 700
Reference load Horizontal kg	10
Stroke Pitch mm	100-3850 50Pitch
Suitable for motor	57Stepper/ 60 Servo
Synchronous wheel	HTD3M(number of teeth 25)
Straightness	≤ 0.05/300mm
Coupling	12x8 12x14
Photoelectric switch Outside	PM-Y45(Default:NPN)

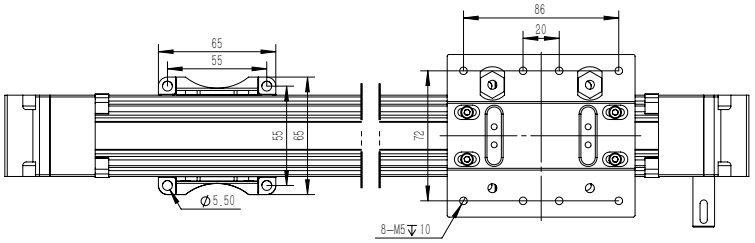
Note: Different side connection methods may result in shorter travel, please be aware

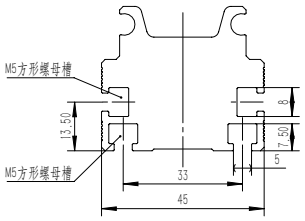


STP45









*Default motor installation thread: M4 for 400W

STP50

STP50 -	100 -	1A	-	D	-	M40/75	-	S3
Model	Stroke	Out Axis direction		Motor Connection mode		Motor band		Switches
		As shown in P178		D： Direct mount		M： Mitsubishi 400W		
				P : Side mounted installation		Y： Yaskawa 400W		
				PU: Fold up and connect to the side		T： Delta 400W		
				PD:Fold down side connection		P： Panasonic 400W		
						S: 57 /86 stepper		

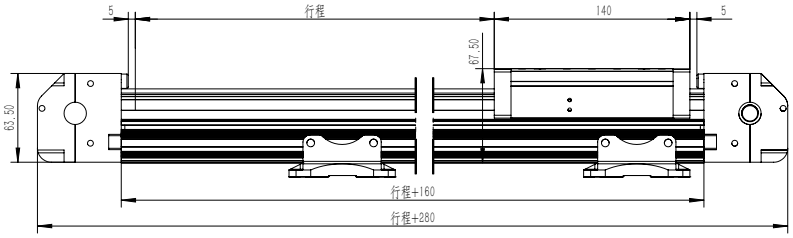
Parameter

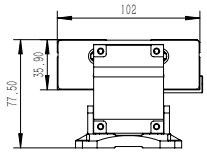
Repeatability mm	±0.1
Guide mm	105
Suggested speed	≤ 1000
Reference load Horizontal kg	15
Stroke Pitch mm	100-3800 50Pitch
Suitable for motor	57/86 Stepper 60/80 Servo
Synchronous wheel	HTD5M(number of teeth21)
Straightness	≤ 0.05/300mm
Coupling	12x8 12x14 12x19
Photoelectric switch Outside	PM-Y45(Default:NPN)

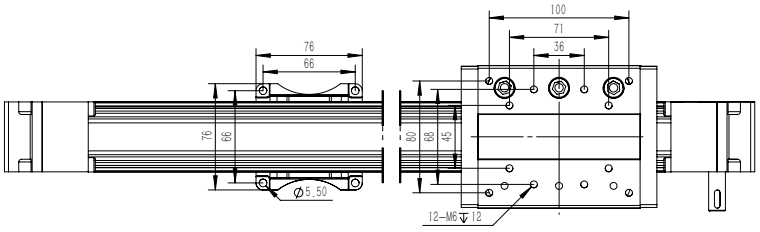
Note: Different side connection methods may result in shorter travel, please be aware

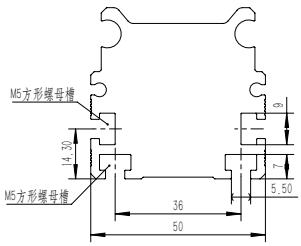


STP50









Default motor installation thread: M4 for 400W and M5 for 750W

STP60

STP60 -	100 -	1A	-	D	-	M40/75	-	S3
Model	Stroke	Out Axis direction		Motor Connection mode		Motor band		Switches
		As shown in P178		D: Direct mount		M: Mitsubishi 400/750W		
				P : Side mounted installation		Y: Yaskawa 400/750W		
				PU: Fold up and connect to the side		T: Delta 400/750W		
				PD:Fold down side connection		P: Panasonic 400/750W		
						S: 57 /86 stepper		

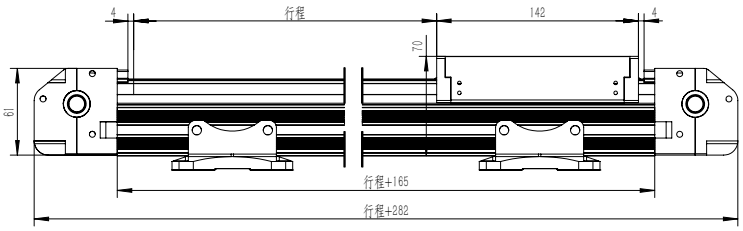
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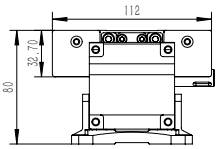
Repeatability mm	±0.1
Guide mm	95
Suggested speed	≤ 1000
Reference load Horizontal kg	20
Stroke Pitch mm	100-3800 50Pitch
Suitable for motor	57/86 Stepper 60/80Servo
Synchronous wheel	HTD5M(number of teeth19)
Straightness	≤ 0.05/300mm
Coupling	12x8 12x14 12x19
Photoelectric switch Outside	PM-Y45((Default:NPN)

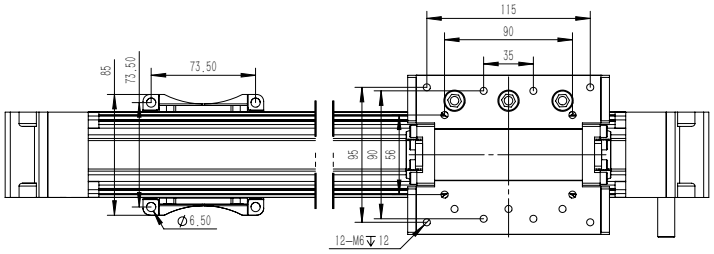
Note: Different side connection methods may result in shorter travel, please be aware

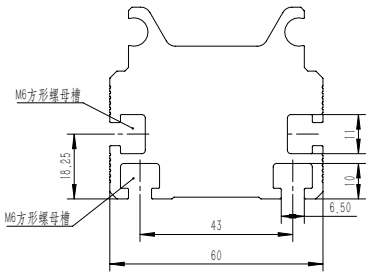


STP60









Default motor installation thread: M4 for 400W and M5 for 750W

STP80

STP80 -	100 -	1A -	D -	M40/75 -	S3
Model	Stroke	Out Axis direction	Motor Connection mode	Motor band	Switches
		As shown in P178	D： Direct mount	M： Mitsubishi 400/750W	
			P : Side mounted installation	Y： Yaskawa 400/750W	
			PU: Fold up and connect to the side	T： Delta 400/750W	
			PD:Fold down side connection	P： Panasonic 400/750W	
				S: 57 /86 stepper	

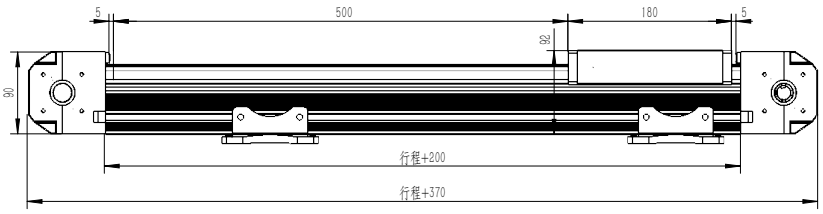
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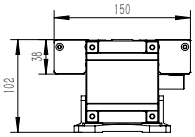
Repeatability mm	±0.1
Guide mm	170
Suggested speed	≤ 1800
Reference load Horizontal kg	50
Stroke Pitch mm	100-3750 50Pitc
Suitable for motor	57/86 Stepper 60/80Servo
Synchronous wheel	HTD5M(number of teeth34)
Straightness	≤ 0.05/300mm
Coupling	16x8 16x14 16x19
Photoelectric switch Outside	PM-Y45(Default:NPN)

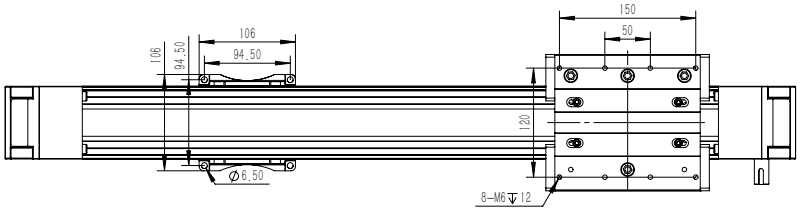
Note: Different side connection methods may result in shorter travel, please be aware

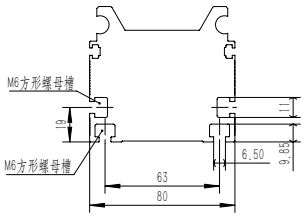


STP80



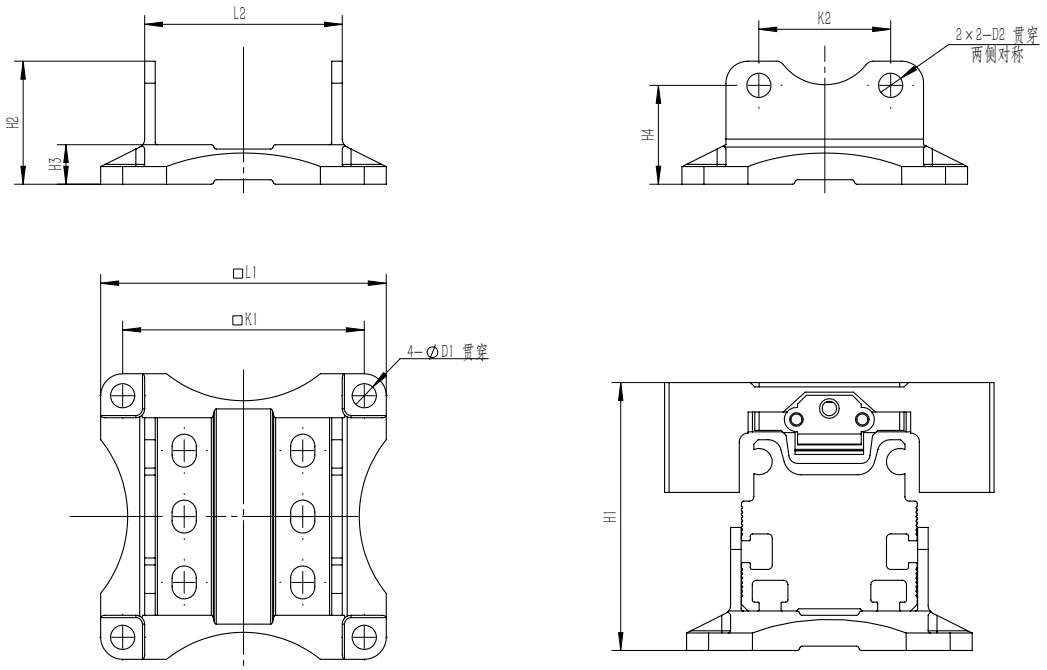






Default motor installation thread: M4 for 400W and M5 for 750W

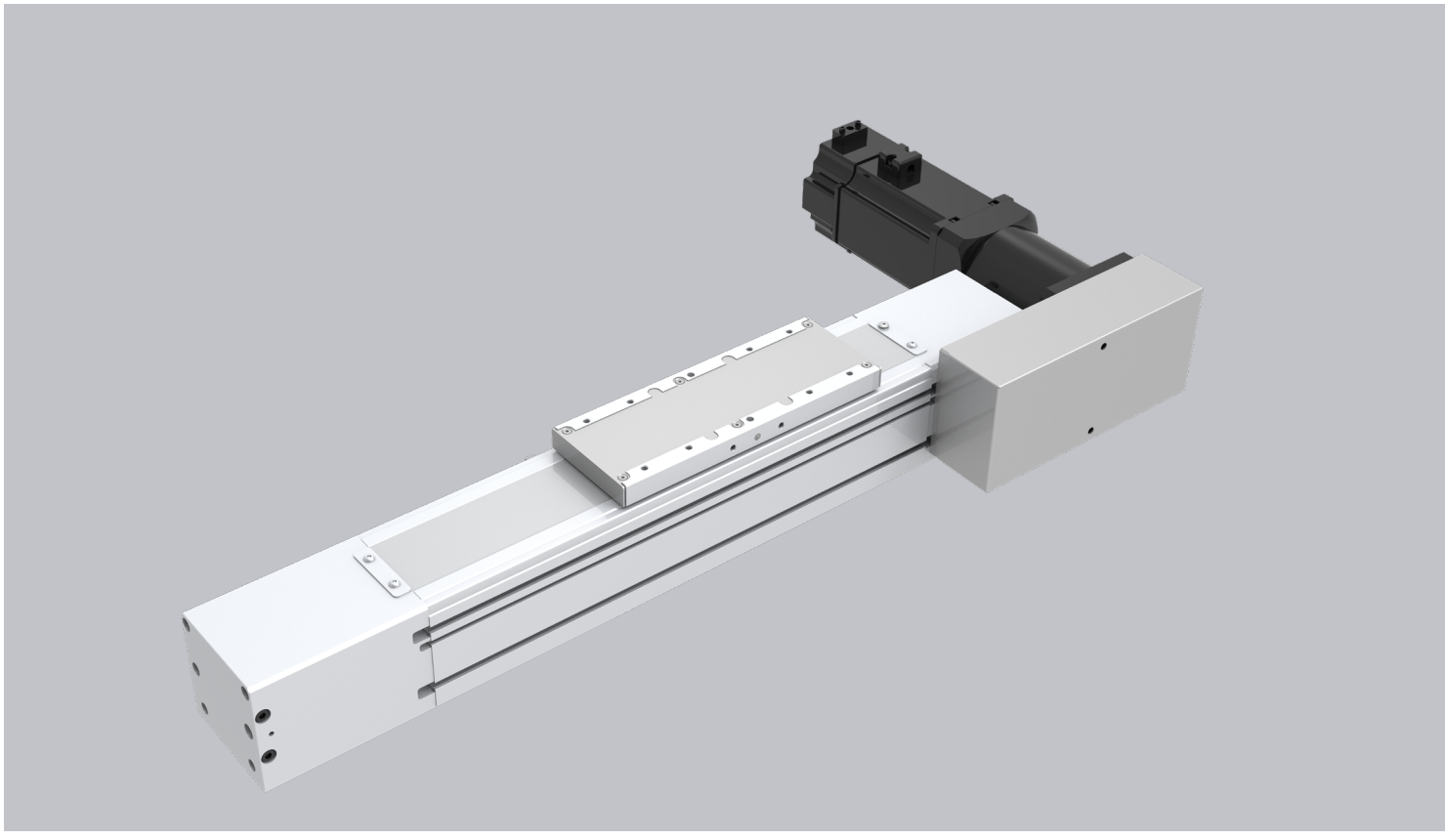
Fixed foundation



Model	L1	L2	H1	H2	H3	K1	K2	D1	D2
STP40-DJ	65	45	61	28	9	55	30	Ø5.50	Ø5.50
STP45-DJ	65	50.2	61	26	7	55	20.5	Ø5.50	Ø5.50
STP50-DJ	76	58.5	77.5	30	10	66	45	Ø5.50	Ø5.50
STP60-DJ	85	69.5	80	35	10	73.5	50	Ø6.50	Ø6.50
STP80-DJ	106	90.5	102	40	10	94.5	65	Ø6.50	Ø6.50

10 »»

MK Series timing belt slide



MK65

MK65 - 2000 - L - M4B - C 4 - 10 - A001

Model

Stroke
100-6000mm
100 interval

Motor position
L: Left
LU: Left up
LD: Left down
LT: Directly left
LL: Out of the axis left
RR: Out of the axis right
R: Right
RU: Right up
RD: Right down
RT: Directly right

Motor fixed dimension
M4:Servo PCD70-M5-Axis 14
P4:Servo PCD70-M4-Axis14
*if no brakes, not indicate

Origin sensor:
Plug-in type
C: Motor side
D: Anti-motor side
No sensor
E: No sensor

Endpoint limit sensor:
Plug-in type
3: 1 pcs
4: 2 pcs
No sensor
5: No sensor

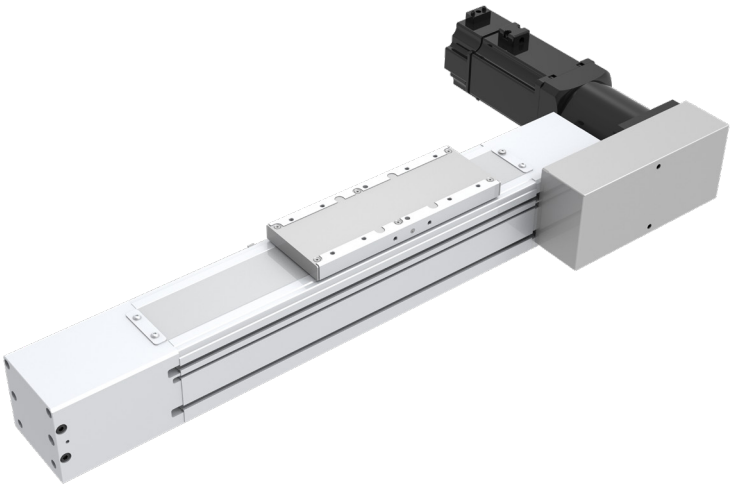
Reduction ratio
3
5
7
10
N:No reducer
Only LL/RR can be used with N

Special specification

※ Basic specifications

Specification	Motor speed (rpm/min)		3:1	5:1	7:1	10:1
	Max speed (mm/s) *1		1833	1100	785	550
	Max load (kg)	Horizontal	30	45	55	60
		Vertical *2	9	15	16	17
	Repeatable positioning accuracy (mm)		±0.1			
	Rated thrust (N)		220			
	Standard stroke (mm)*3		100-5000mm/100 100mm Pitch			
Component	AC servo motor capacity (W)		400			
	Belt width (mm)		32			
	High rigidity linear slide (mm)		W15XH12.5			
	Origin sensor	Plug	PM-T45(NPN)			

※1、Motor acceleration and deceleration are set to 0.4 seconds
※2、When used vertically, there is a risk of load dropping
※3、When the slide table is not equipped with a reducer, the lead is 110

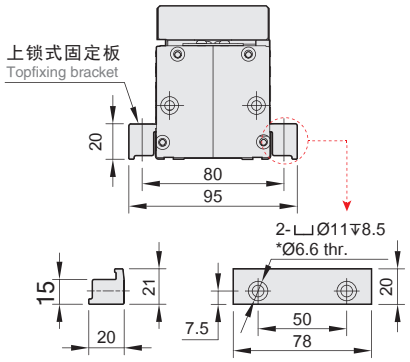


※Number of slide fixing nuts

Number of M5 rear-mounted nuts per stroke			
Valid stroke	Quantity	Valid stroke	Quantity
100-500	4	2600-3000	14
600-1000	6	3100-3500	16
1100-1500	8	3600-4000	18
1600-2000	10	4100-4500	20
2100-2500	12	4600-5000	22

*The standard fixing method of the slide table is a bottom fixing type, which is fixed with M5 rear-mounted nut

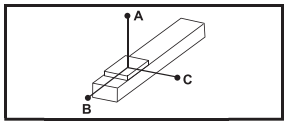
※ Installation dimension



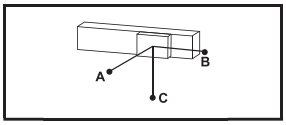
*The top fixing bracket is not a standard product, if you have a demand, please purchase it separately

Block model	Matching products
MK85-YK	MK65
	MK85
MK110-YK	MK110

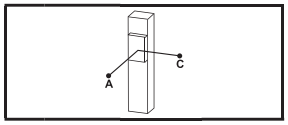
※ Allowable load torque table



Unit:mm



Unit:mm



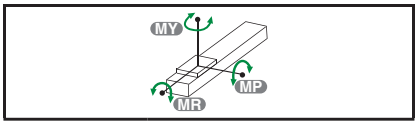
Unit:mm

Horizontal installation		A	B	C
3:1	10KG	950	250	42
	20KG	420	105	18
	30KG	250	55	10
5:1	25KG	950	140	24
	35KG	625	90	15
	45KG	450	55	10
7:1	28KG	1300	145	25
	40KG	850	90	15
	55KG	550	50	10
10:1	30KG	1850	145	25
	45KG	1250	90	15
	60KG	800	50	10

Side installation		A	B	C
3:1	10KG	42	250	950
	20KG	19	110	450
	30KG	10	60	260
5:1	25KG	25	140	950
	35KG	15	90	600
	45KG	10	60	450
7:1	28KG	25	145	1300
	40KG	15	90	850
	55KG	10	60	850
10:1	30KG	25	140	1950
	45KG	15	90	1150
	60KG	10	60	800

Vertical installation		A	C
3:1	3KG	900	900
	6KG	450	450
	9KG	300	300
5:1	5KG	900	900
	10KG	450	450
	15KG	300	300
7:1	6KG	900	900
	12KG	450	450
	16KG	300	300
10:1	6KG	900	900
	13KG	450	450
	17KG	330	300

※ Static allowable load inertia



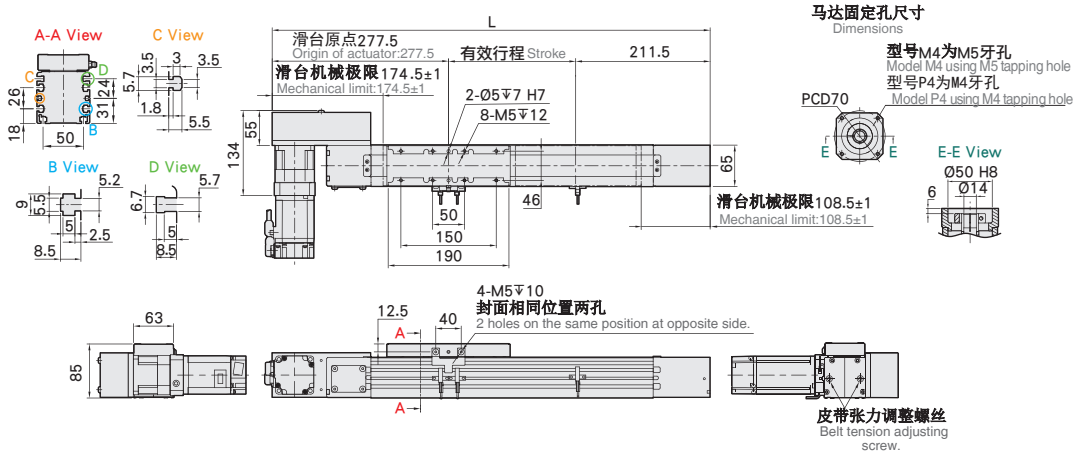
Unit:mm

MY	338
MP	338
MR	59

*The data represented by the torque table represents the center of gravity.
*Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
*The total length is more than 1000mm, and the steel carries the risk of deformation, avoiding the use of wall hanging.
*The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor folds left

Unit：mm

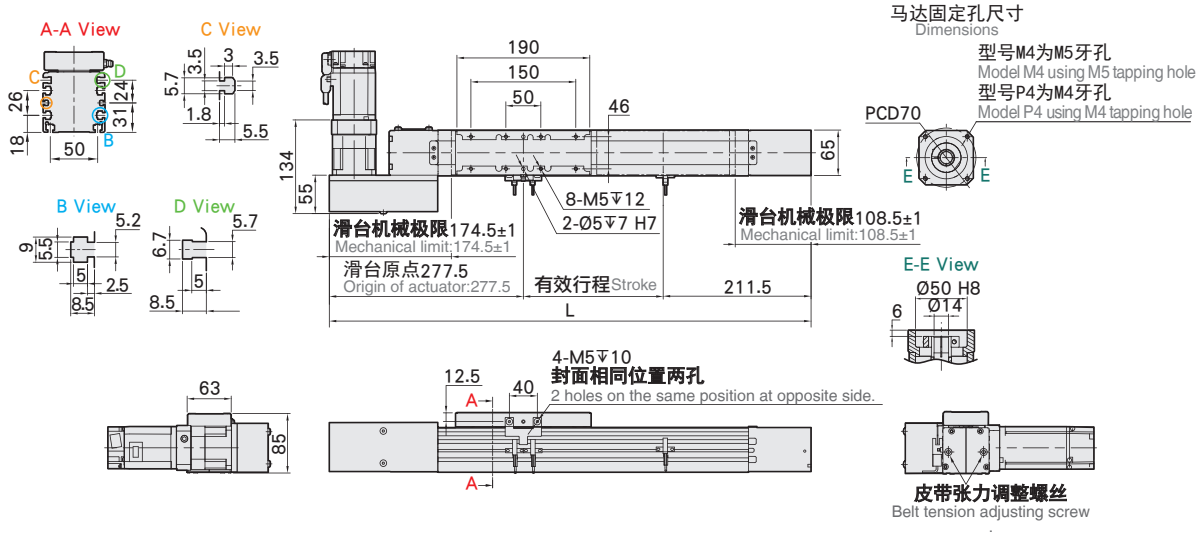


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	589	689	789	889	989	1089	1189	1289	1389	1489	1589	1689	1789	1889	1989	2089	2189	2289	2389	2489	2589	2689	2789	2889	2989
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3089	3189	3289	3389	3489	2589	3689	3789	3889	3989	4089	4189	4289	4389	4489	4589	4689	4789	4889	4989	5089	5189	5289	5389	5489
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31

Motor folds right

Unit：mm

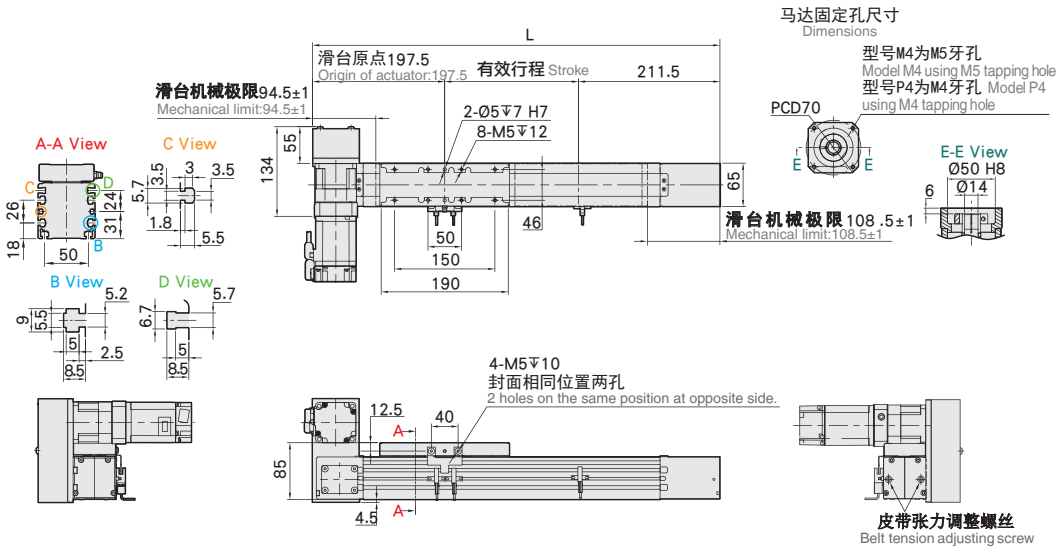


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	589	689	789	889	989	1089	1189	1289	1389	1489	1589	1689	1789	1889	1989	2089	2189	2289	2389	2489	2589	2689	2789	2889	2989
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3089	3189	3289	3389	3489	2589	3689	3789	3889	3989	4089	4189	4289	4389	4489	4589	4689	4789	4889	4989	5089	5189	5289	5389	5489
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31

Motor folds left up

Unit：mm

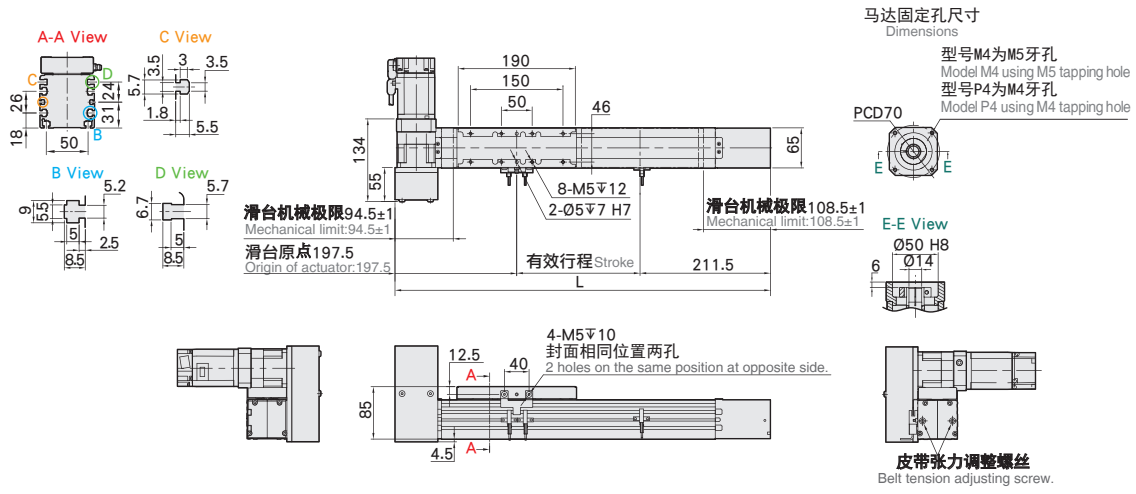


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	509	609	709	809	909	1009	1109	1209	1309	1409	1509	1609	1709	1809	1909	2009	2109	2209	2309	2409	2509	2609	2709	2809	2909
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3009	3109	3209	3309	3409	3509	3609	3709	3809	3909	4009	4109	4209	4309	4409	4509	4609	4709	4809	4909	5009	5109	5209	5309	5409
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31

Motor folds left up

Unit：mm

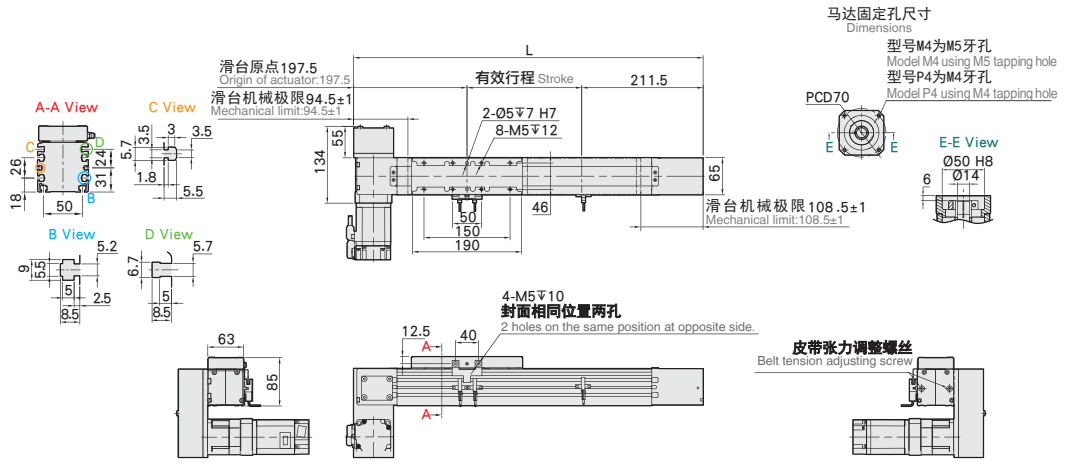


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	509	609	709	809	909	1009	1109	1209	1309	1409	1509	1609	1709	1809	1909	2009	2109	2209	2309	2409	2509	2609	2709	2809	2909
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3009	3109	3209	3309	3409	3509	3609	3709	3809	3909	4009	4109	4209	4309	4409	4509	4609	4709	4809	4909	5009	5109	5209	5309	5409
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31

Motor folds left down

Unit：mm

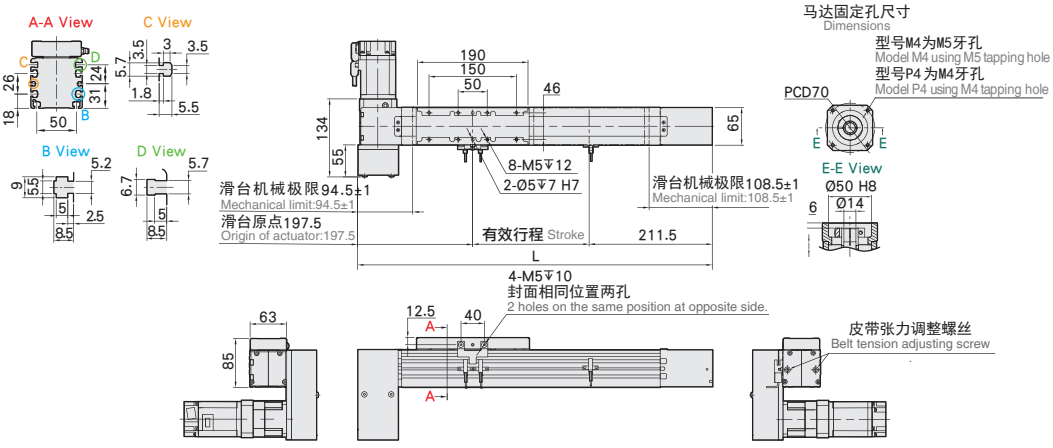


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	509	609	709	809	909	1009	1109	1209	1309	1409	1509	1609	1709	1809	1909	2009	2109	2209	2309	2409	2509	2609	2709	2809	2909
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3009	3109	3209	3309	3409	3509	3609	3709	3809	3909	4009	4109	4209	4309	4409	4509	4609	4709	4809	4909	5009	5109	5209	5309	5409
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31

Motor folds right down

Unit：mm

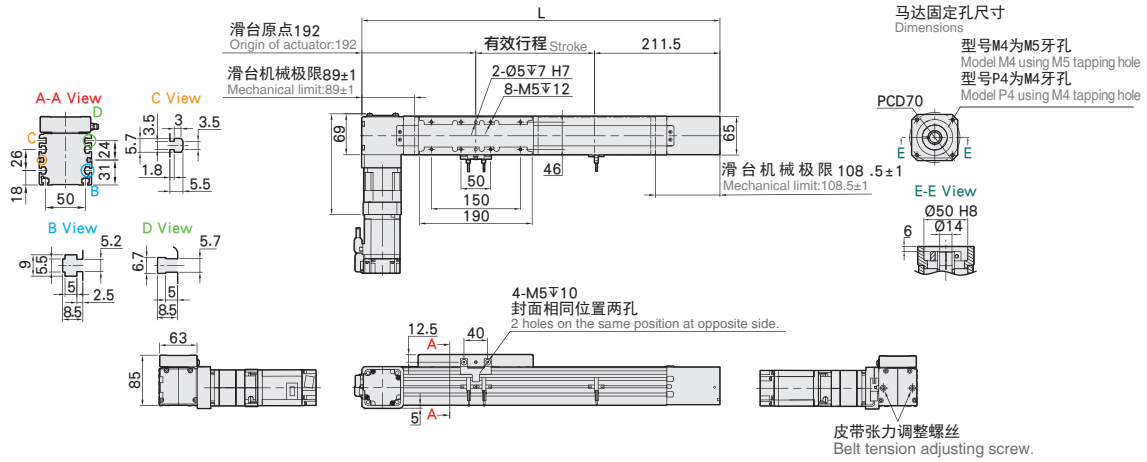


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	509	609	709	809	909	1009	1109	1209	1309	1409	1509	1609	1709	1809	1909	2009	2109	2209	2309	2409	2509	2609	2709	2809	2909
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3009	3109	3209	3309	3409	3509	3609	3709	3809	3909	4009	4109	4209	4309	4409	4509	4609	4709	4809	4909	5009	5109	5209	5309	5409
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31

Motor directly folds left

Unit：mm

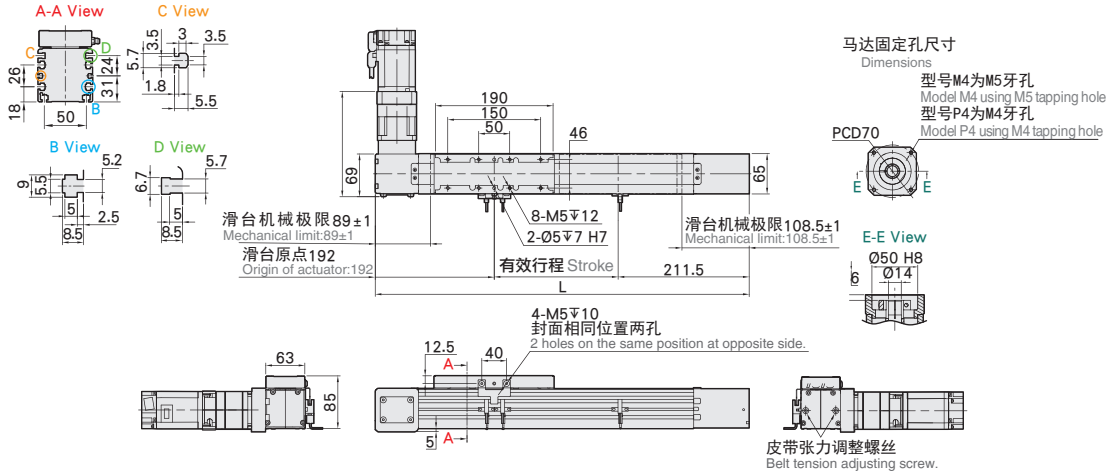


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	503.5	603.5	703.5	803.5	903.5	1003.5	1103.5	1203.5	1303.5	1403.5	1503.5	1603.5	1703.5	1803.5	1903.5	2003.5	2103.5	2203.5	2303.5	2403.5	2503.5	2603.5	2703.5	2803.5	2903.5
KG	6.87	7.39	7.91	8.43	8.95	9.47	9.99	10.51	11.03	11.55	12.07	12.59	13.11	13.63	14.15	14.67	15.19	15.71	16.23	16.75	17.27	17.79	18.31	18.83	19.35

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3003.5	3103.5	3203.5	3303.5	3403.5	3503.5	3603.5	3703.5	3803.5	3903.5	4003.5	4103.5	4203.5	4303.5	4403.5	4503.5	4603.5	4703.5	4803.5	4903.5	5003.5	5103.5	5203.5	5303.5	5403.5
KG	19.87	20.39	20.91	21.43	21.95	22.47	22.99	23.51	24.03	24.55	25.07	25.59	26.11	26.63	27.15	27.67	28.19	28.71	29.23	29.75	30.27	30.79	31.31	31.83	32.25

Motor directly folds right

Unit：mm

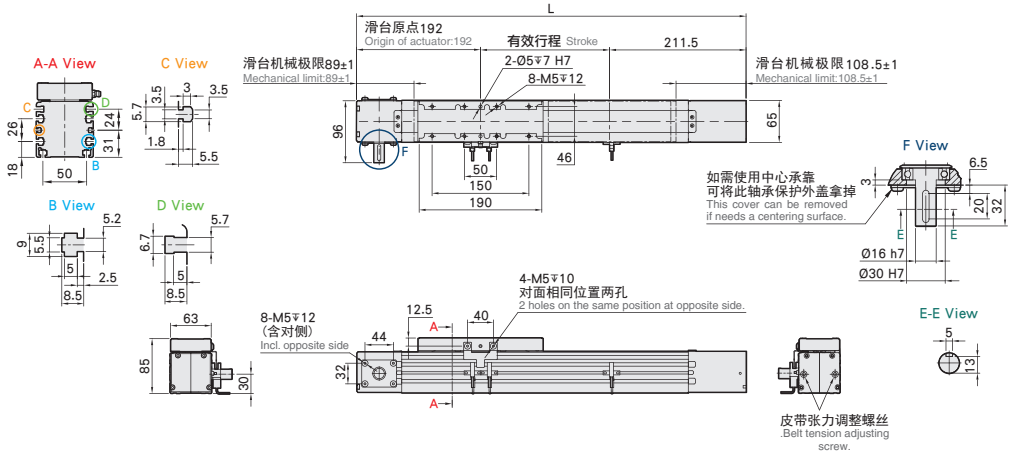


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	503.5	603.5	703.5	803.5	903.5	1003.5	1103.5	1203.5	1303.5	1403.5	1503.5	1603.5	1703.5	1803.5	1903.5	2003.5	2103.5	2203.5	2303.5	2403.5	2503.5	2603.5	2703.5	2803.5	2903.5
KG	6.87	7.39	7.91	8.43	8.95	9.47	9.99	10.51	11.03	11.55	12.07	12.59	13.11	13.63	14.15	14.67	15.19	15.71	16.23	16.75	17.27	17.79	18.31	18.83	19.35

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3003.5	3103.5	3203.5	3303.5	3403.5	3503.5	3603.5	3703.5	3803.5	3903.5	4003.5	4103.5	4203.5	4303.5	4403.5	4503.5	4603.5	4703.5	4803.5	4903.5	5003.5	5103.5	5203.5	5303.5	5403.5
KG	19.87	20.39	20.91	21.43	21.95	22.47	22.99	23.51	24.03	24.55	25.07	25.59	26.11	26.63	27.15	27.67	28.19	28.71	29.23	29.75	30.27	30.79	31.31	31.83	32.25

Motor folds left out of axis

Unit：mm

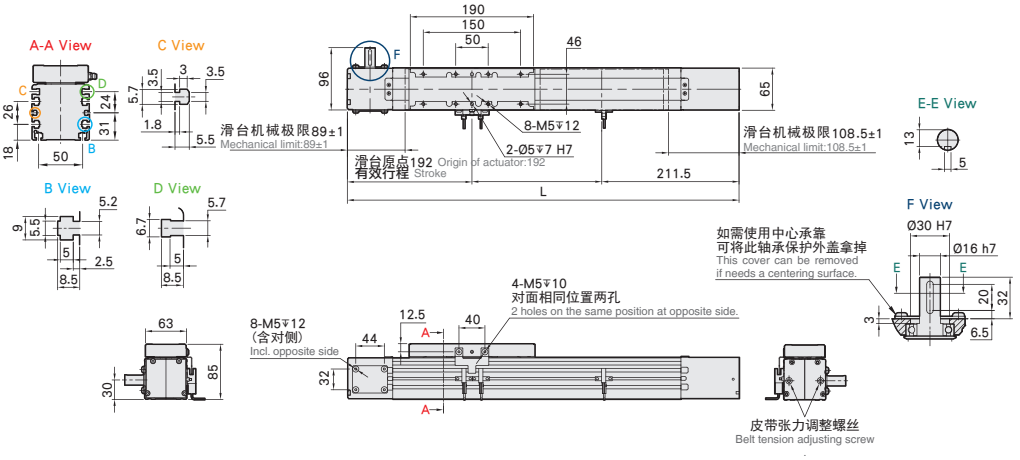


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	503.5	603.5	703.5	803.5	903.5	1003.5	1103.5	1203.5	1303.5	1403.5	1503.5	1603.5	1703.5	1803.5	1903.5	2003.5	2103.5	2203.5	2303.5	2403.5	2503.5	2603.5	2703.5	2803.5	2903.5
KG	4.36	4.9	5.44	5.98	6.52	7.06	7.6	8..14	8.68	9.22	9.76	10.3	10.84	11.38	11.92	12.46	13	13.54	14.08	14.62	15.16	15.7	16.24	16.78	17.32

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3003.5	3103.5	3203.5	3303.5	3403.5	3503.5	3603.5	3703.5	3803.5	3903.5	4003.5	4103.5	4203.5	4303.5	4403.5	4503.5	4603.5	4703.5	4803.5	4903.5	5003.5	5103.5	5203.5	5303.5	5403.4
KG	17.86	18.4	18.94	19.48	20.02	20.56	21.1	21.64	22.18	22.72	23.26	23.8	24.34	24.88	25.42	25.96	26.5	27.04	27.58	28.12	28.66	29.2	29.74	30.28	30.82

Motor folds right out of axis

Unit：mm



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	503.5	603.5	703.5	803.5	903.5	1003.5	1103.5	1203.5	1303.5	1403.5	1503.5	1603.5	1703.5	1803.5	1903.5	2003.5	2103.5	2203.5	2303.5	2403.5	2503.5	2603.5	2703.5	2803.5	2903.5
KG	4.36	4.9	5.44	5.98	6.52	7.06	7.6	8..14	8.68	9.22	9.76	10.3	10.84	11.38	11.92	12.46	13	13.54	14.08	14.62	15.16	15.7	16.24	16.78	17.32

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3003.5	3103.5	3203.5	3303.5	3403.5	3503.5	3603.5	3703.5	3803.5	3903.5	4003.5	4103.5	4203.5	4303.5	4403.5	4503.5	4603.5	4703.5	4803.5	4903.5	5003.5	5103.5	5203.5	5303.5	5403.4
KG	17.86	18.4	18.94	19.48	20.02	20.56	21.1	21.64	22.18	22.72	23.26	23.8	24.34	24.88	25.42	25.96	26.5	27.04	27.58	28.12	28.66	29.2	29.74	30.28	30.82

MK85

MK85 - 2000 - L - M7B - C 4 - 10 - A001

Model

Stroke
100-6000mm
100 interval

Motor position
L: Left
LU: Left up
LD: Left down
LT: Directly left
LL: Out of the axis left
RR: Out of the axis right
R: Right
RU: Right up
RD: Right down
RT: Directly right

Motor fixed dimension
M4:Servo PCD70-M5-Axis 14
P4:Servo PCD70-M4-Axis14
*if no brakes, not indicate

Origin sensor:
Plug-in type
C: Motor side
D: Anti-motor side
No sensor
E: No sensor

Endpoint limit sensor:
Plug-in type
3: 1 pcs
4: 2 pcs
No sensor
5: No sensor

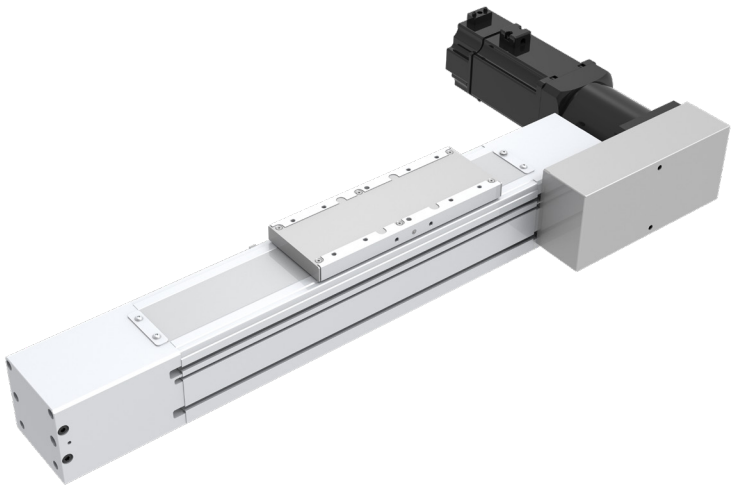
Reduction ratio
3
5
7
10
N:No reducer
Only LL/RR can be used with N

Special specification

※ Basic specifications

Specification	Motor speed (rpm/min)		5:1	7:1	10:1
	Max speed (mm/s) *1		2000	1428	1000
	Max load (kg)	Horizontal	40	60	100
		Vertical *2	14	21	24
	Repeatable positioning accuracy (mm)		±0.1		
	Rated thrust (N)		340		
	Standard stroke (mm)*3		100-5000mm/100 100mm Pitch		
Component	AC servo motor capacity (W)		750		
	Belt width (mm)		46		
	High rigidity linear slide (mm)		W20XH12.5		
	Origin sensor	Plug	PM-T45(NPN)		

※1、Motor acceleration and deceleration are set to 0.4 seconds
※2、When used vertically, there is a risk of load dropping
※3、When the slide table is not equipped with a reducer, the lead is 110

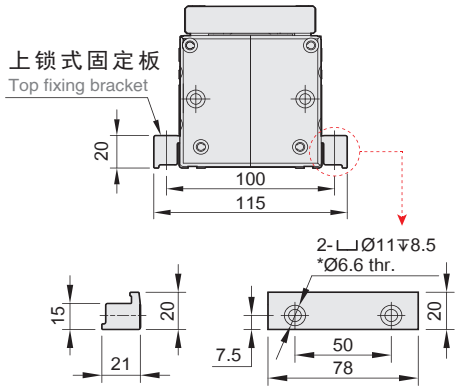


※Number of slide fixing nuts

Number of M5 rear-mounted nuts per stroke			
Valid stroke	Quantity	Valid stroke	Quantity
100-500	4	2600-3000	14
600-1000	6	3100-3500	16
1100-1500	8	3600-4000	18
1600-2000	10	4100-4500	20
2100-2500	12	4600-5000	22

*The standard fixing method of the slide table is a bottom fixing type, which is fixed with M5 rear-mounted nut

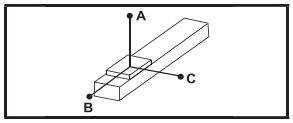
※ Installation dimension



*The top fixing bracket is not a standard product, if you have a demand, please purchase it separately

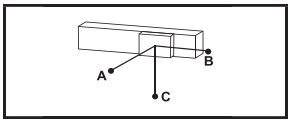
Block model	Matching products
MK85-YK	MK65
	MK85
MK110-YK	MK110

※ Allowable load torque table



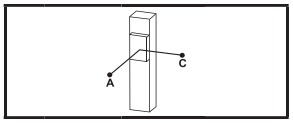
Unit: mm

Horizontal installation		A	B	C
5:1	20KG	900	280	40
	30KG	550	160	22
	40KG	400	110	15
7:1	40KG	750	160	22
	50KG	575	115	16
	60KG	420	85	12
10:1	60KG	900	140	20
	80KG	700	105	15
	100KG	550	75	10



Unit: mm

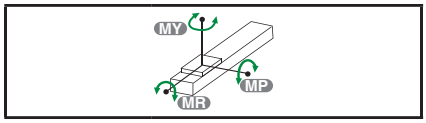
Side installation		A	B	C
5:1	20KG	40	280	900
	30KG	22	160	600
	40KG	15	110	400
7:1	40KG	22	160	750
	50KG	15	110	575
	60KG	12	80	450
10:1	60KG	20	140	1950
	80KG	15	105	750
	100KG	10	75	600



Unit: mm

Vertical installation		A	C
5:1	5KG	1250	1250
	10KG	650	650
	14KG	450	450
7:1	15KG	600	600
	18KG	480	480
	21KG	400	400
10:1	18KG	550	550
	20KG	450	450
	24KG	330	350

※ Static allowable load inertia



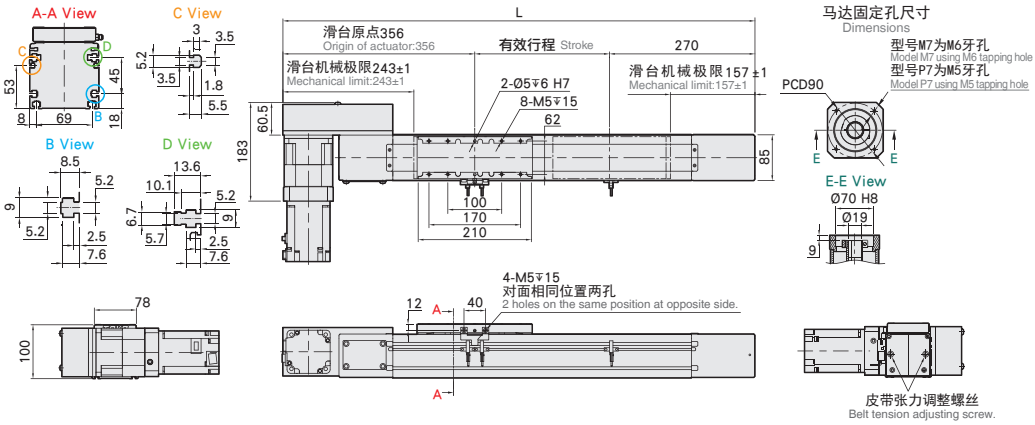
Unit: mm

MY	868
MP	868
MR	123

*The data represented by the torque table represents the center of gravity.
*Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
*The total length is more than 1000mm, and the steel carries the risk of deformation, avoiding the use of wall hanging.
*The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor folds left

Unit：mm

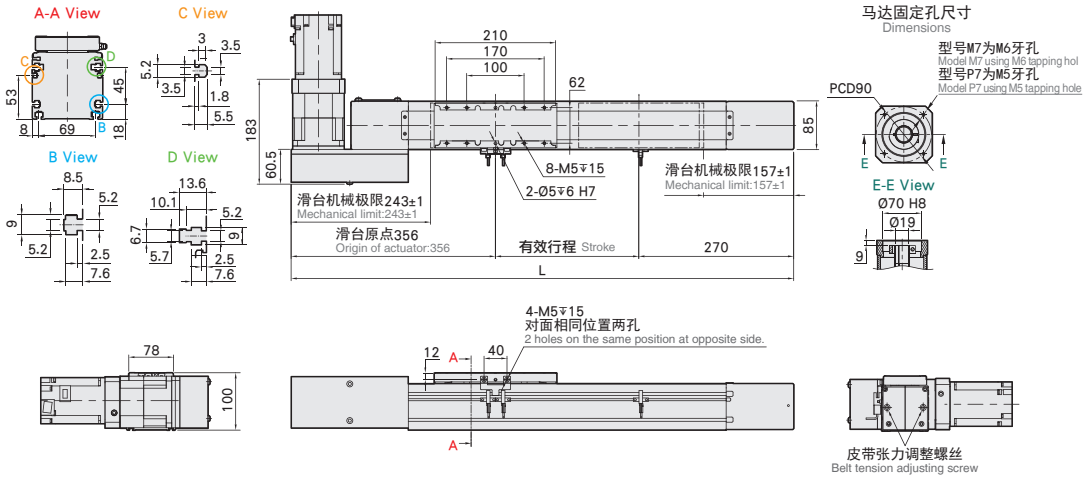


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	726	826	926	1026	1126	1226	1326	1426	1526	1626	1726	1826	1926	2026	2126	2226	2326	2426	2526	2626	2726	2826	2926	3026	3126
KG	14.81	15.65	16.49	17.33	18.17	19.01	19.85	20.69	21.53	22.37	23.21	24.05	24.89	25.73	26.57	27.41	28.25	29.09	29.93	30.77	31.61	32.45	33.29	34.13	34.97

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3226	3326	3426	3526	3626	3726	3826	3926	4026	4126	4226	4326	4426	4526	4626	4726	4826	4926	5026	5126	5226	5326	5426	5526	5626
KG	35.81	36.65	37.49	38.33	39.17	40.01	40.85	41.69	42.53	43.37	44.21	45.05	45.89	46.73	47.57	48.41	49.25	50.09	50.93	51.77	52.61	53.45	54.29	55.13	55.97

Motor folds right

Unit：mm

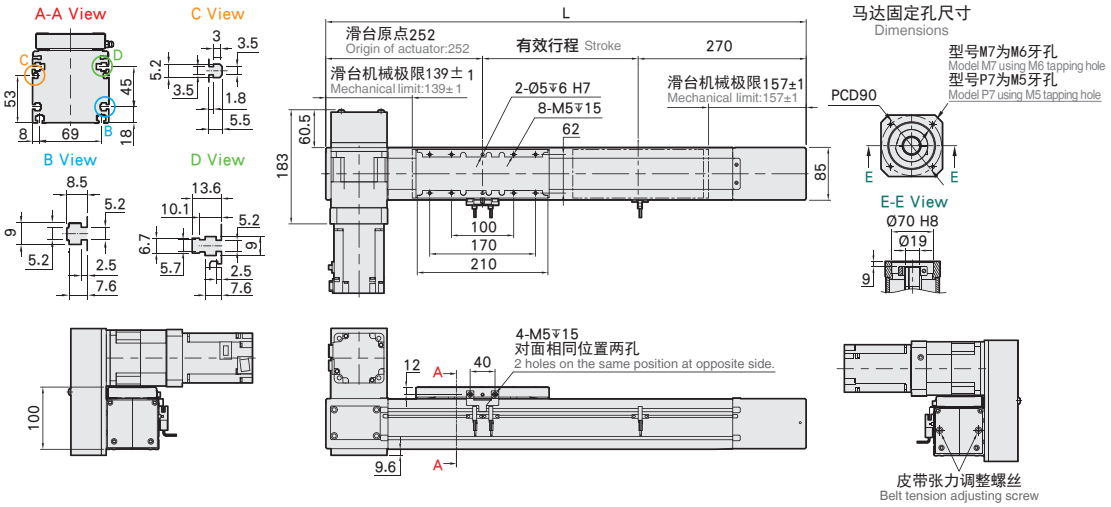


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	726	826	926	1026	1126	1226	1326	1426	1526	1626	1726	1826	1926	2026	2126	2226	2326	2426	2526	2626	2726	2826	2926	3026	3126
KG	14.81	15.65	16.49	17.33	18.17	19.01	19.85	20.69	21.53	22.37	23.21	24.05	24.89	25.73	26.57	27.41	28.25	29.09	29.93	30.77	31.61	32.45	33.29	34.13	34.97

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3226	3326	3426	3526	3626	3726	3826	3926	4026	4126	4226	4326	4426	4526	4626	4726	4826	4926	5026	5126	5226	5326	5426	5526	5626
KG	35.81	36.65	37.49	38.33	39.17	40.01	40.85	41.69	42.53	43.37	44.21	45.05	45.89	46.73	47.57	48.41	49.25	50.09	50.93	51.77	52.61	53.45	54.29	55.13	55.97

Motor folds left up

Unit：mm

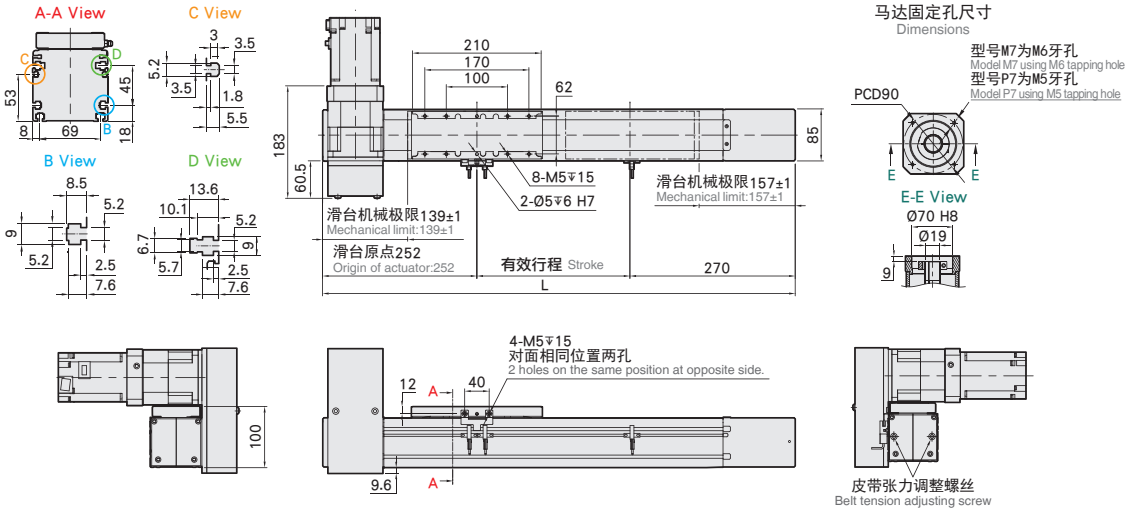


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	14.81	15.65	16.49	17.33	18.17	19.01	19.85	20.69	21.53	22.37	23.21	24.05	24.89	25.73	26.57	27.41	28.25	29.09	29.93	30.77	31.61	32.45	33.29	34.13	34.97

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	35.81	36.65	37.49	38.33	39.17	40.01	40.85	41.69	42.53	43.37	44.21	45.05	45.89	46.73	47.57	48.41	49.25	50.09	50.93	51.77	51.61	53.45	54.29	551.13	55.97

Motor folds right up

Unit：mm

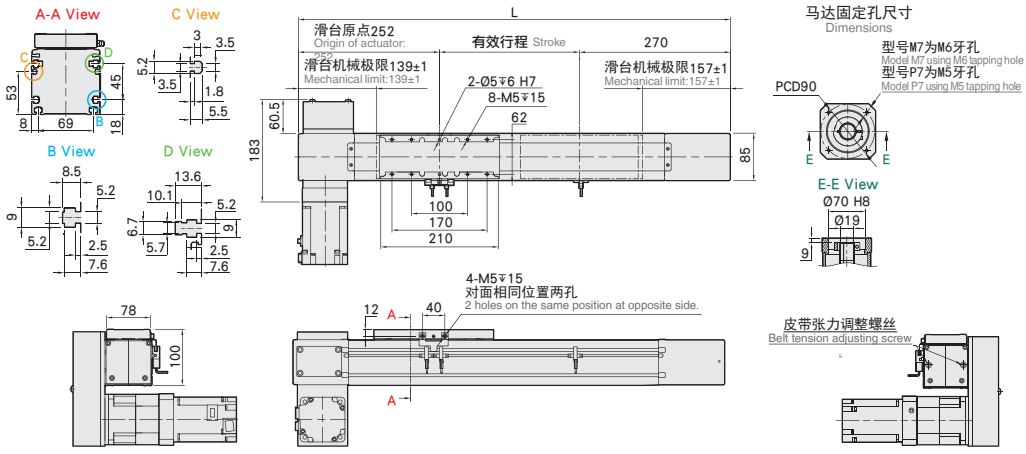


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	14.81	15.65	16.49	17.33	18.17	19.01	19.85	20.69	21.53	22.37	23.21	24.05	24.89	25.73	26.57	27.41	28.25	29.09	29.93	30.77	31.61	32.45	33.29	34.13	34.97

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	35.81	36.65	37.49	38.33	39.17	40.01	40.85	41.69	42.53	43.37	44.21	45.05	45.89	46.73	47.57	48.41	49.25	50.09	50.93	51.77	51.61	53.45	54.29	551.13	55.97

Motor folds left down

Unit：mm

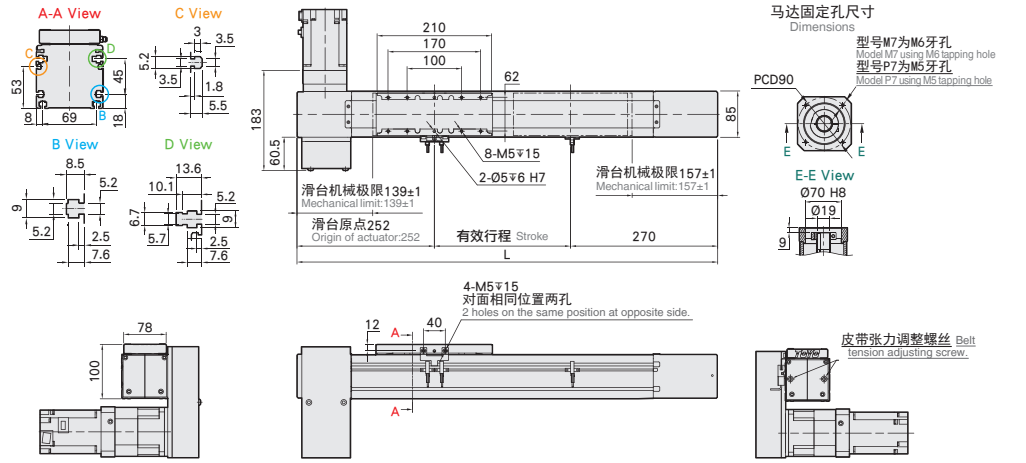


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	14.81	15.65	16.49	17.33	18.17	19.01	19.85	20.69	21.53	22.37	23.21	24.05	24.89	25.73	26.57	27.41	28.25	29.09	29.93	30.77	31.61	32.45	33.29	34.13	34.97

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	35.81	36.65	37.49	38.33	39.17	40.01	40.85	41.69	42.53	43.37	44.21	45.05	45.89	46.73	47.57	48.41	49.25	50.09	50.93	51.77	51.61	53.45	54.29	551.13	55.97

Motor folds right down

Unit：mm

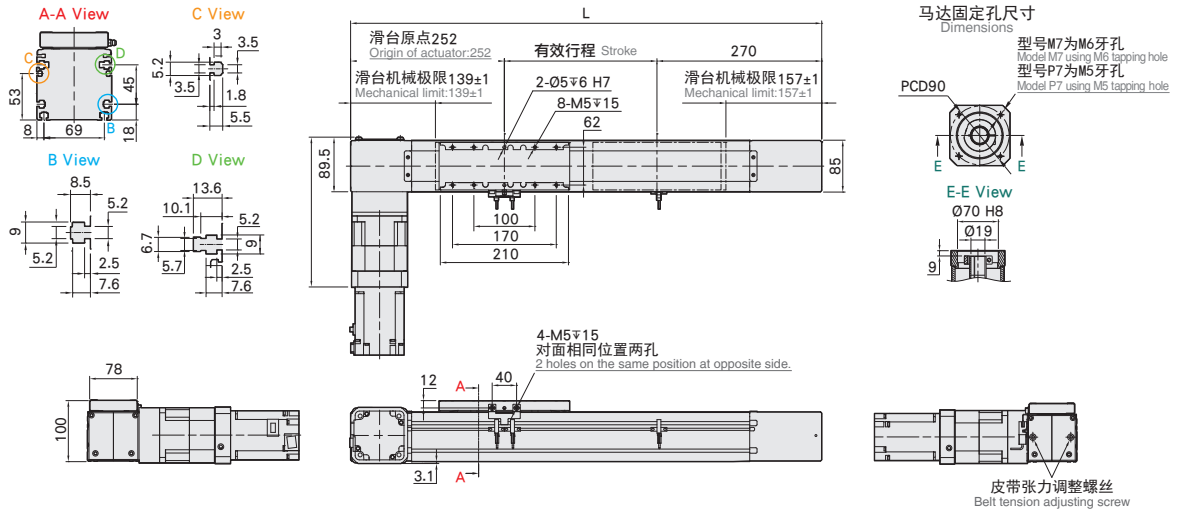


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	14.81	15.65	16.49	17.33	18.17	19.01	19.85	20.69	21.53	22.37	23.21	24.05	24.89	25.73	26.57	27.41	28.25	29.09	29.93	30.77	31.61	32.45	33.29	34.13	34.97

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	35.81	36.65	37.49	38.33	39.17	40.01	40.85	41.69	42.53	43.37	44.21	45.05	45.89	46.73	47.57	48.41	49.25	50.09	50.93	51.77	51.61	53.45	54.29	551.13	55.97

Motor directly folds left

Unit：mm

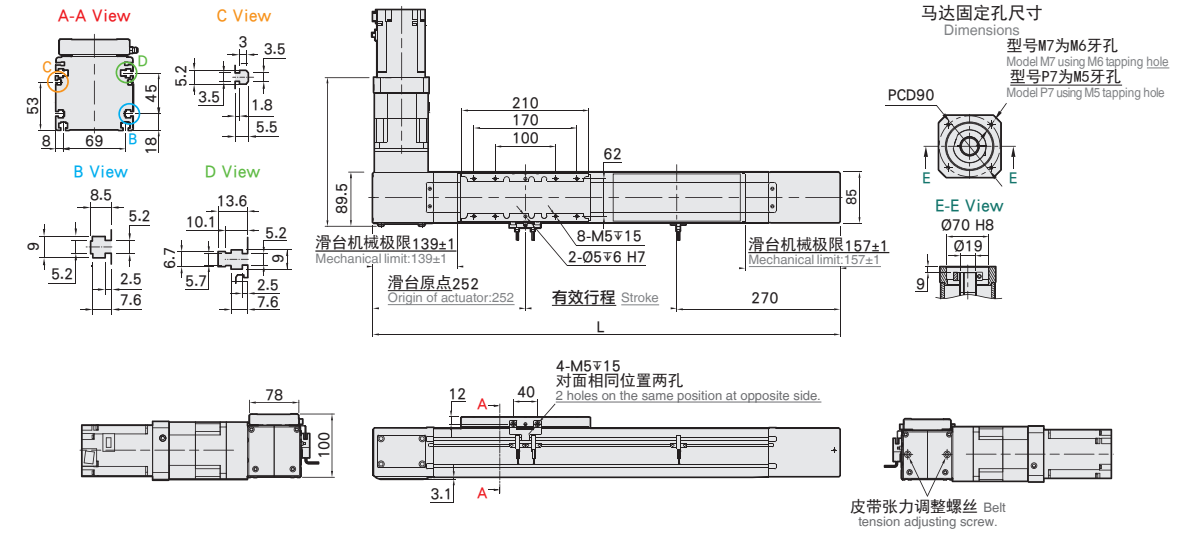


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	13.06	13.88	14.7	15.52	16.34	17.16	17.98	18.8	19.62	20.44	21.26	22.08	22.9	23.72	24.54	25.36	26.18	27	27.82	28.64	29.46	30.28	31.1	31.92	32.7

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	33.56	34.38	35.2	36.02	36.84	37.66	38.48	39.3	40.12	40.94	41.76	42.58	43.4	44.22	45.04	45.86	46.68	47.5	48.32	49.14	49.96	50.78	51.6	52.42	53.24

Motor directly folds right

Unit：mm

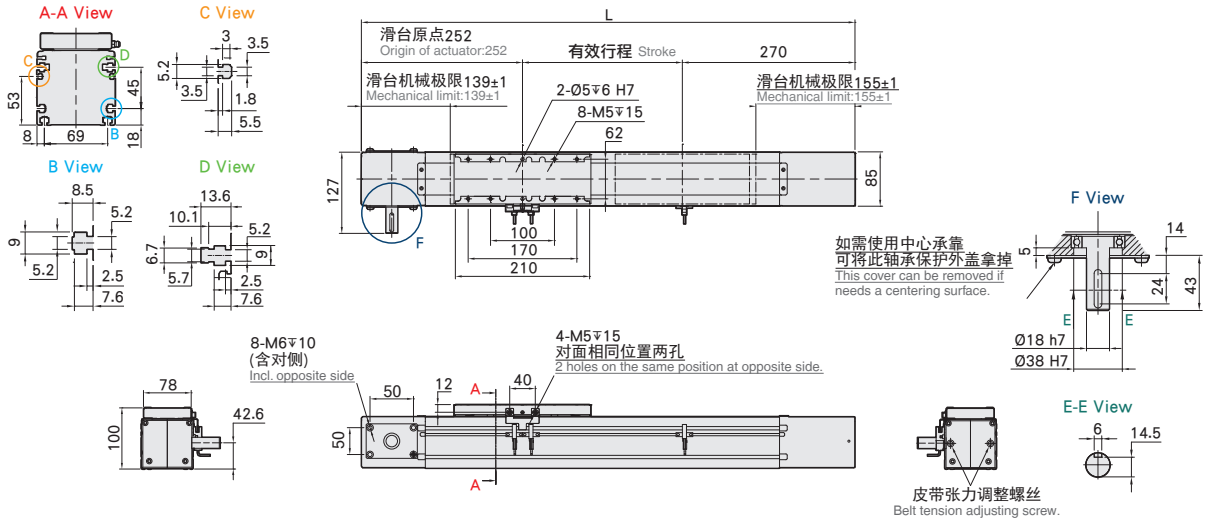


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	13.06	13.88	14.7	15.52	16.34	17.16	17.98	18.8	19.62	20.44	21.26	22.08	22.9	23.72	24.54	25.36	26.18	27	27.82	28.64	29.46	30.28	31.1	31.92	32.7

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	33.56	34.38	35.2	36.02	36.84	37.66	38.48	39.3	40.12	40.94	41.76	42.58	43.4	44.22	45.04	45.86	46.68	47.5	48.32	49.14	49.96	50.78	51.6	52.42	53.24

Motor folds left out of axis

Unit：mm

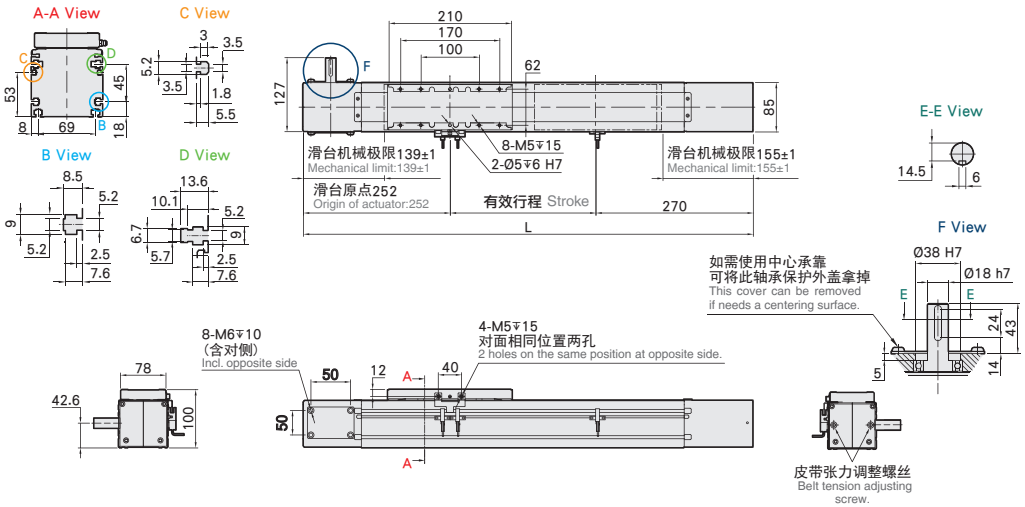


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	10.55	11.37	12.19	13.01	13.83	14.65	15.47	16.29	17.11	17.93	18.75	19.57	20.39	21.21	22.03	22.85	23.67	24.49	25.31	26.13	26.95	27.77	28.59	29.41	30.23

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	31.05	31.87	32.69	33.51	34.33	35.15	35.97	36.79	37.61	38.43	39.25	40.07	40.89	41.71	42.53	43.35	44.17	44.99	45.81	46.63	47.45	48.27	49.09	49.91	50.73

Motor folds right out of axis

Unit：mm



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	10.55	11.37	12.19	13.01	13.83	14.65	15.47	16.29	17.11	17.93	18.75	19.57	20.39	21.21	22.03	22.85	23.67	24.49	25.31	26.13	26.95	27.77	28.59	29.41	30.23

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	31.05	31.87	32.69	33.51	34.33	35.15	35.97	36.79	37.61	38.43	39.25	40.07	40.89	41.71	42.53	43.35	44.17	44.99	45.81	46.63	47.45	48.27	49.09	49.91	50.73

MK110

MK110 - 2000 - L - M7B - C 4 - 10 - A001

Model

Stroke
100-6000mm
100 interval

Motor position
L: Left
LU: Left up
LD: Left down
LT: Directly left
LL: Out of the axis left
RR: Out of the axis right
R: Right
RU: Right up
RD: Right down
RT: Directly right

Motor fixed dimension
M7:Servo PCD90-M6-Axis 19
P7:Servo PCD90-M5-Axis19
*if no brakes, not indicate

Origin sensor:
Plug-in type
C: Motor side
D: Anti-motor side
No sensor
E: No sensor

Endpoint limit sensor:
Plug-in type
3: 1 pcs
4: 2 pcs
No sensor
5: No sensor

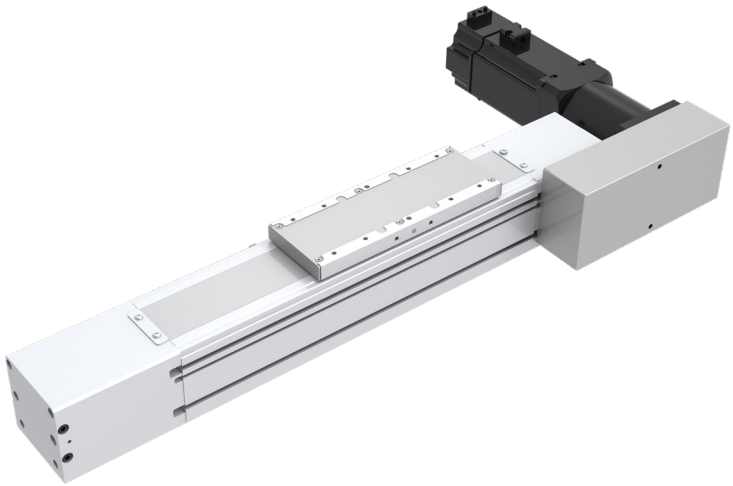
Reduction ratio
10
15
20
N:No reducer
Only LL/RR can be used with N

Special specification

※ Basic specifications

Specification	Motor speed (rpm/min)		10:1	15:1	20:1
	Max speed (mm/s) *1		1250	833	625
	Max load (kg)	Horizontal	100	150	200
		Vertical *2	23	36	50
	Repeatable positioning accuracy (mm)		±0.1		
	Rated thrust (N)		765		
	Standard stroke (mm)*3		100-5000mm/100 100mm Pitch		
Component	AC servo motor capacity (W)		750		
	Belt width (mm)		50		
	High rigidity linear slide (mm)		W23XH18		
	Origin sensor	Plug	PM-T45(NPN)		

※1、Motor acceleration and deceleration are set to 0.4 seconds
※2、When used vertically, there is a risk of load dropping
※3、When the slide table is not equipped with a reducer, the lead is 110

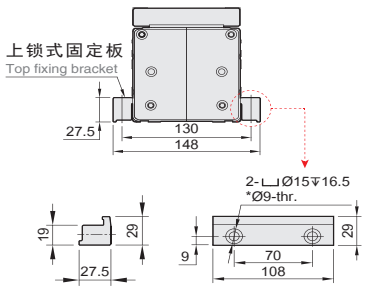


※Number of slide fixing nuts

Number of M8 rear-mounted nuts per stroke			
Valid stroke	Quantity	Valid stroke	Quantity
100-500	4	2600-3000	14
600-1000	6	3100-3500	16
1100-1500	8	3600-4000	18
1600-2000	10	4100-4500	20
2100-2500	12	4600-5000	22

*The standard fixing method of the slide table is a bottom fixing type, which is fixed with M8 rear-mounted nut

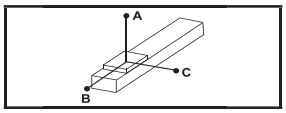
※ Installation dimension



*The top fixing bracket is not a standard product, if you have a demand, please purchase it separately

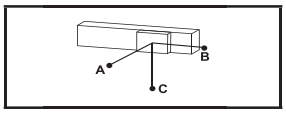
Block model	Matching products
MK85-YK	MK65
	MK85
MK110-YK	MK110

※ Allowable load torque table



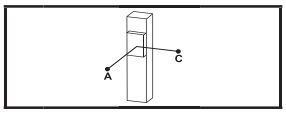
Unit: mm

Horizontal installation		A	B	C
10:1	60KG	1110	195	25
	80KG	750	126	16
	100KG	550	85	11
15:1	90KG	1400	160	20
	120KG	940	100	13
	150KG	650	63	8
20:1	120KG	1400	115	15
	160KG	900	65	8
	200KG	550	35	5



Unit: mm

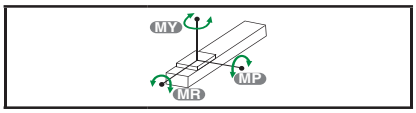
Side installation		A	B	C
10:1	20KG	25	195	1110
	30KG	16	126	750
	40KG	11	85	550
15:1	40KG	20	160	1400
	50KG	13	100	940
	60KG	8	63	650
20:1	60KG	15	115	1400
	80KG	8	65	900
	100KG	5	35	550



Unit: mm

Vertical installation		A	C
10:1	12KG	1300	1300
	18KG	870	870
	23KG	680	680
15:1	14KG	1480	1480
	25KG	830	830
	36KG	575	575
20:1	30KG	750	750
	40KG	560	560
	50KG	450	450

※ Static allowable load inertia



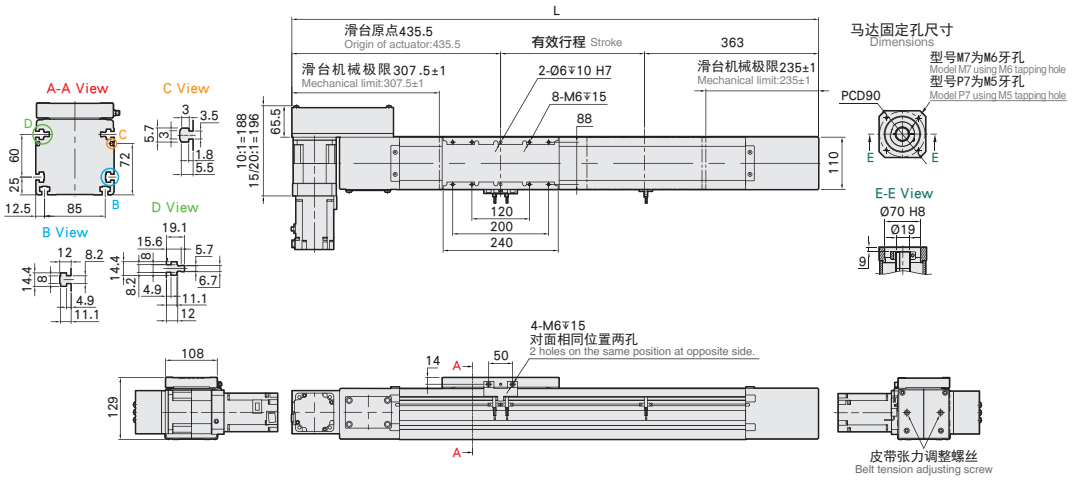
Unit: mm

MY	1479
MP	1479
MR	190

*The data represented by the torque table represents the center of gravity.
*Under normal use in accordance with catalog specifications, the guaranteed life is 10,000 km.
*The total length is more than 1000mm, and the steel carries the risk of deformation, avoiding the use of wall hanging.
*The use of upside down can not apply the standard specifications, if you have the need, please contact us.

Motor folds left

Unit:mm

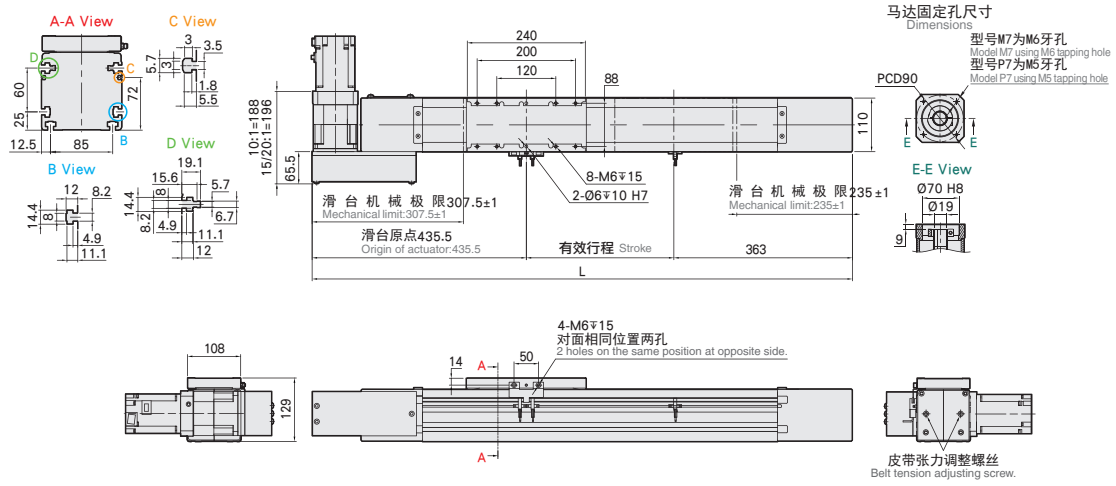


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099	3199
KG	24.09	25.33	26.57	27.81	29.05	30.29	31.53	32.77	34.01	35.25	36.49	37.73	38.97	40.21	41.45	42.69	43.93	45.17	46.41	47.65	48.89	50.13	51.37	52.61

Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
L	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499	5599
KG	53.85	55.09	56.33	57.57	58.81	60.05	61.29	62.53	63.77	65.01	66.25	67.49	68.73	69.97	71.21	72.45	73.69	74.93	76.17	77.41	78.65	79.89	81.13	82.37

Motor folds right

Unit:mm

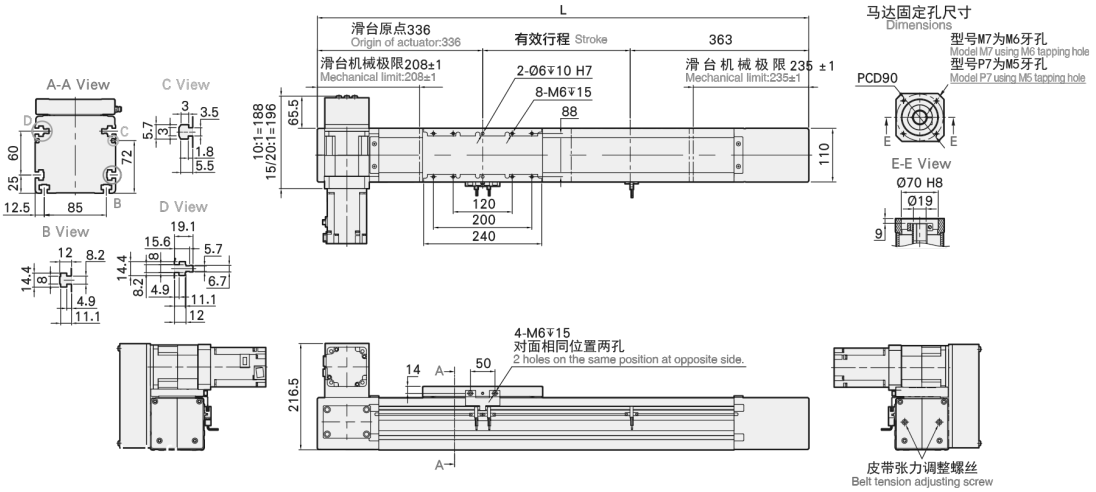


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099	3199
KG	24.09	25.33	26.57	27.81	29.05	30.29	31.53	32.77	34.01	35.25	36.49	37.73	38.97	40.21	41.45	42.69	43.93	45.17	46.41	47.65	48.89	50.13	51.37	52.61

Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
L	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499	5599
KG	53.85	55.09	56.33	57.57	58.81	60.05	61.29	62.53	63.77	65.01	66.25	67.49	68.73	69.97	71.21	72.45	73.69	74.93	76.17	77.41	78.65	79.89	81.13	82.37

Motor folds left up

Unit:mm

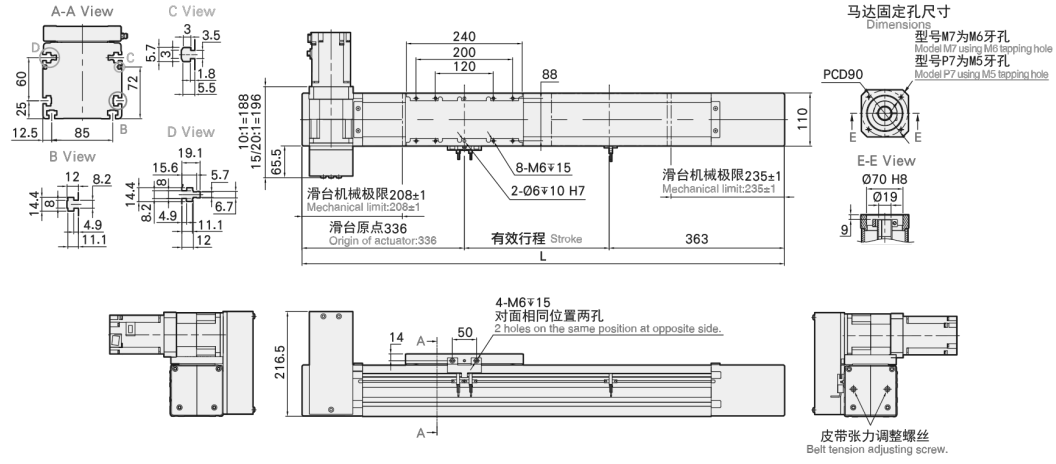


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	24.09	25.33	26.57	27.81	29.05	30.29	31.53	32.77	34.01	35.25	36.49	37.73	38.97	40.21	41.45	42.69	43.93	45.17	46.41	47.65	48.89	50.13	51.37	52.61

Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	53.85	55.09	56.33	57.57	58.81	60.05	61.29	62.53	63.77	65.01	66.25	67.49	68.73	69.97	71.21	72.45	73.69	74.93	76.17	77.41	78.65	79.89	81.13	82.37

Motor folds right up

Unit:mm

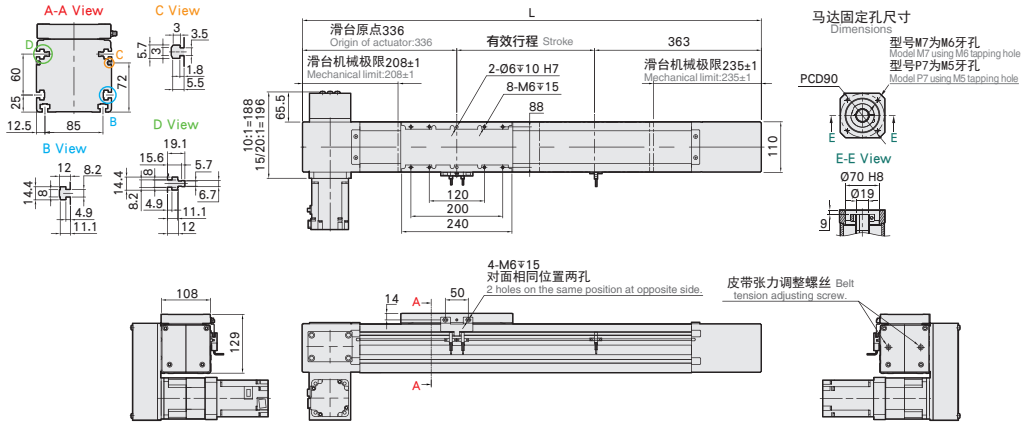


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	24.09	25.33	26.57	27.81	29.05	30.29	31.53	32.77	34.01	35.25	36.49	37.73	38.97	40.21	41.45	42.69	43.93	45.17	46.41	47.65	48.89	50.13	51.37	52.61

Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	53.85	55.09	56.33	57.57	58.81	60.05	61.29	62.53	63.77	65.01	66.25	67.49	68.73	69.97	71.21	72.45	73.69	74.93	76.17	77.41	78.65	79.89	81.13	82.37

Motor folds left down

Unit:mm

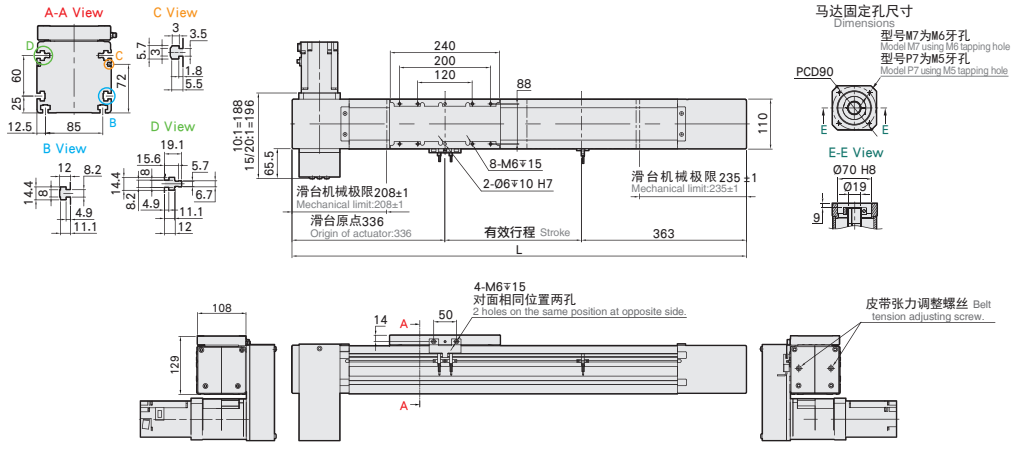


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	24.09	25.33	26.57	27.81	29.05	30.29	31.53	32.77	34.01	35.25	36.49	37.73	38.97	40.21	41.45	42.69	43.93	45.17	46.41	47.65	48.89	50.13	51.37	52.61

Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	53.85	55.09	56.33	57.57	58.81	60.05	61.29	62.53	63.77	65.01	66.25	67.49	68.73	69.97	71.21	72.45	73.69	74.93	76.17	77.41	78.65	79.89	81.13	82.37

Motor folds right down

Unit:mm

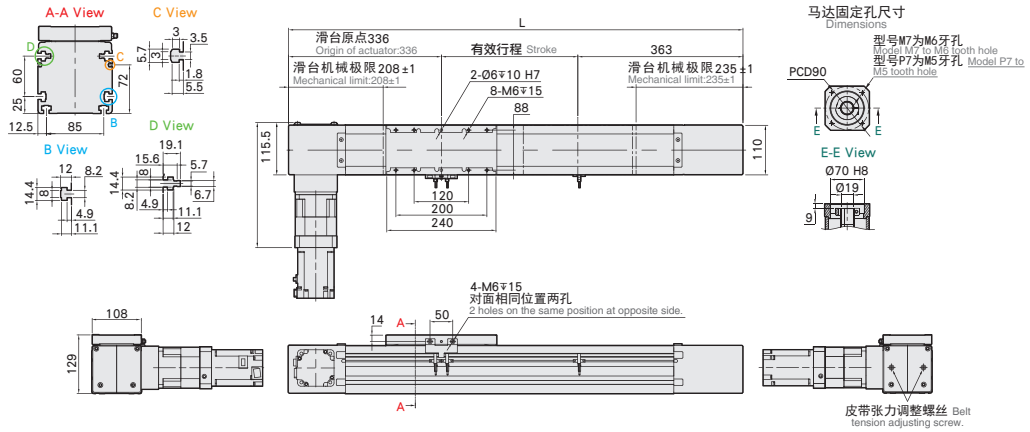


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	24.09	25.33	26.57	27.81	29.05	30.29	31.53	32.77	34.01	35.25	36.49	37.73	38.97	40.21	41.45	42.69	43.93	45.17	46.41	47.65	48.89	50.13	51.37	52.61

Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	53.85	55.09	56.33	57.57	58.81	60.05	61.29	62.53	63.77	65.01	66.25	67.49	68.73	69.97	71.21	72.45	73.69	74.93	76.17	77.41	78.65	79.89	81.13	82.37

Motor directly folds left

Unit:mm

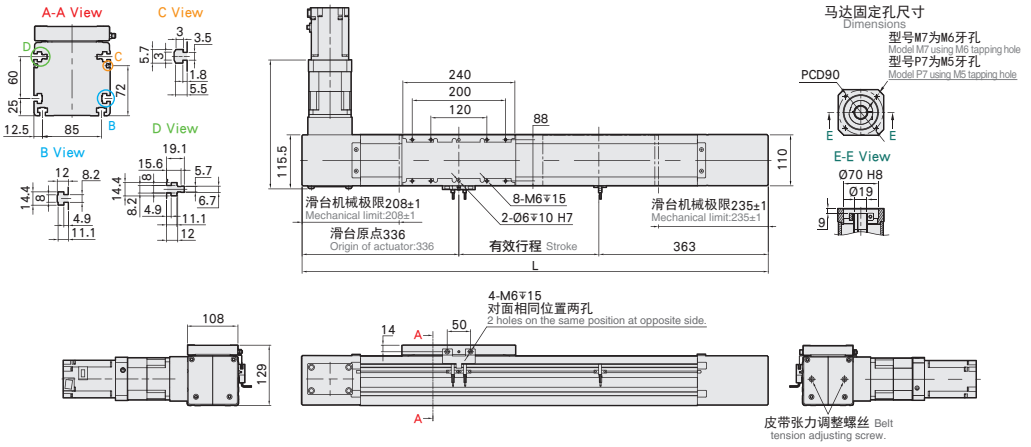


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	21.33	22.57	23.81	25.05	26.29	27.53	28.77	30.01	31.25	32.49	33.73	34.97	36.21	37.45	38.69	39.93	41.17	42.41	43.65	44.89	46.13	47.37	48.61	49.85

Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	51.09	52.33	53.57	54.81	56.05	57.29	58.53	59.77	61.01	62.25	63.49	64.73	65.97	67.21	68.45	69.69	70.93	72.17	73.41	74.65	75.89	77.13	78.37	79.61

Motor directly folds right

Unit:mm

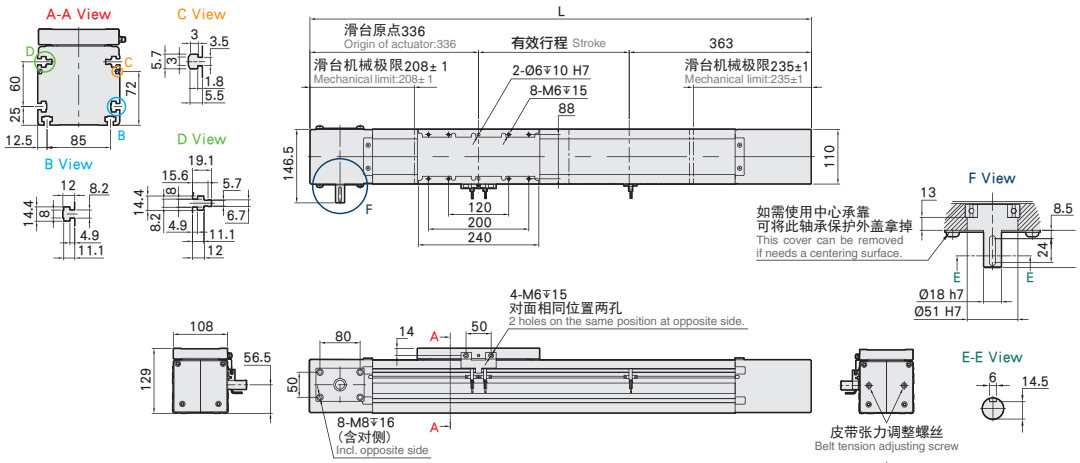


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	21.33	22.57	23.81	25.05	26.29	27.53	28.77	30.01	31.25	32.49	33.73	34.97	36.21	37.45	38.69	39.93	41.17	42.41	43.65	44.89	46.13	47.37	48.61	49.85

Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	51.09	52.33	53.57	54.81	56.05	57.29	58.53	59.77	61.01	62.25	63.49	64.73	65.97	67.21	68.45	69.69	70.93	72.17	73.41	74.65	75.89	77.13	78.37	79.61

Motor folds left out of axis

Unit:mm

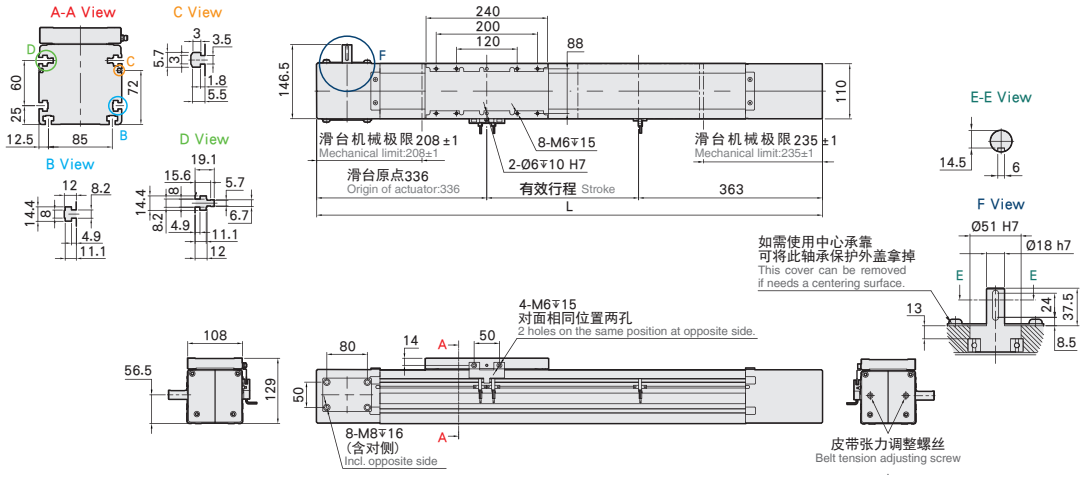


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	18.86	20.1	21.34	22.58	23.82	25.06	26.3	27.54	28.78	30.02	31.26	32.5	33.74	34.98	36.22	37.46	38.7	39.94	41.18	42.42	43.66	44.9	46.14	47.38

Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	48.62	49.86	51.1	52.34	53.58	54.82	56.06	57.3	58.54	59.78	61.02	62.26	63.5	64.74	65.98	67.22	68.46	69.7	70.94	72.18	73.42	74.66	75.9	77.14

Motor folds right out of axis

Unit:mm

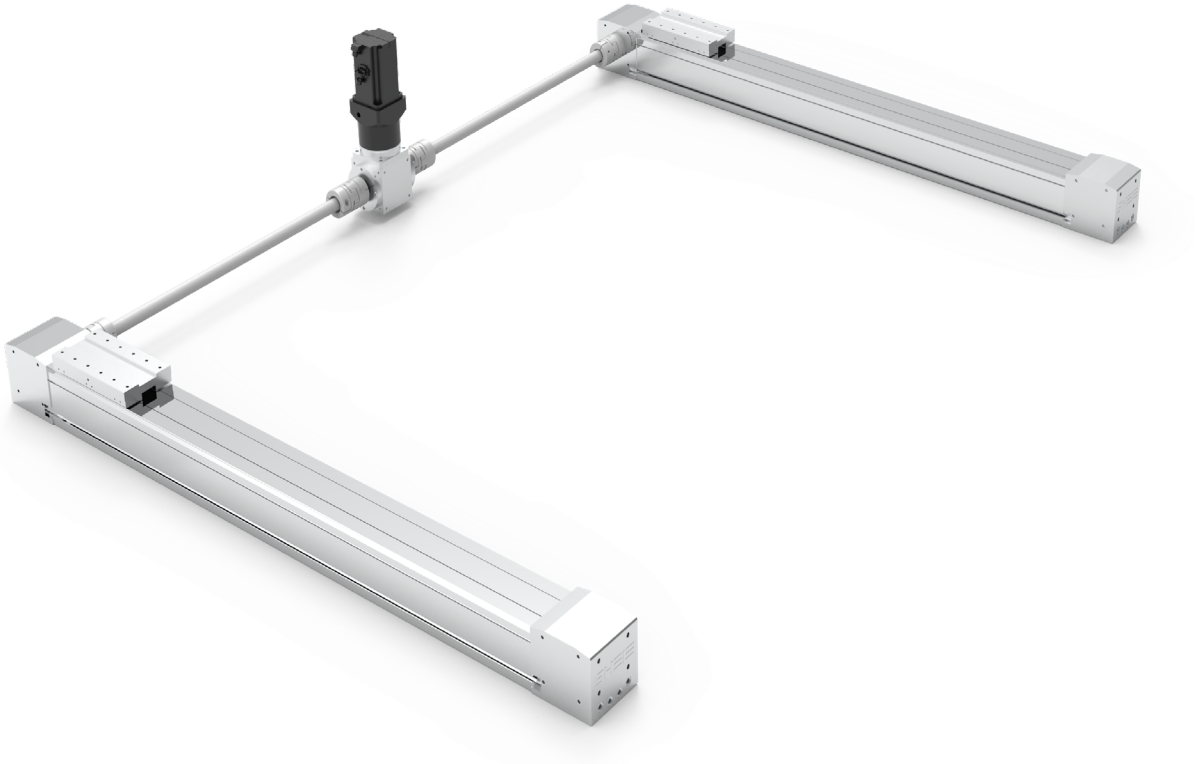


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	18.86	20.1	21.34	22.58	23.82	25.06	26.3	27.54	28.78	30.02	31.26	32.5	33.74	34.98	36.22	37.46	38.7	39.94	41.18	42.42	43.66	44.9	46.14	47.38

Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	48.62	49.86	51.1	52.34	53.58	54.82	56.06	57.3	58.54	59.78	61.02	62.26	63.5	64.74	65.98	67.22	68.46	69.7	70.94	72.18	73.42	74.66	75.9	77.14

11 »»

M Series Timing Belt module

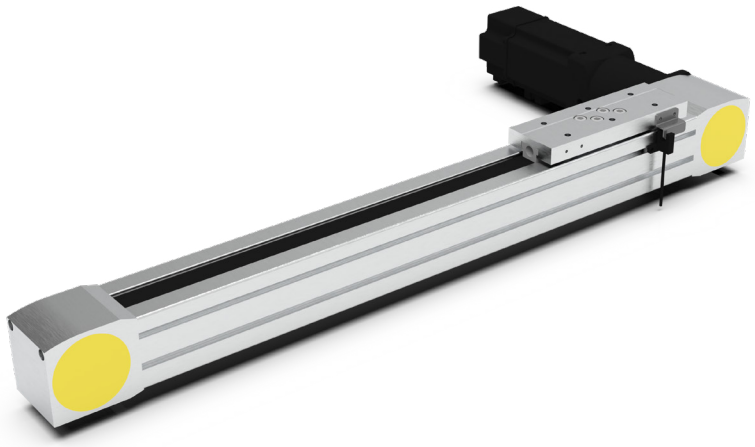


M55X

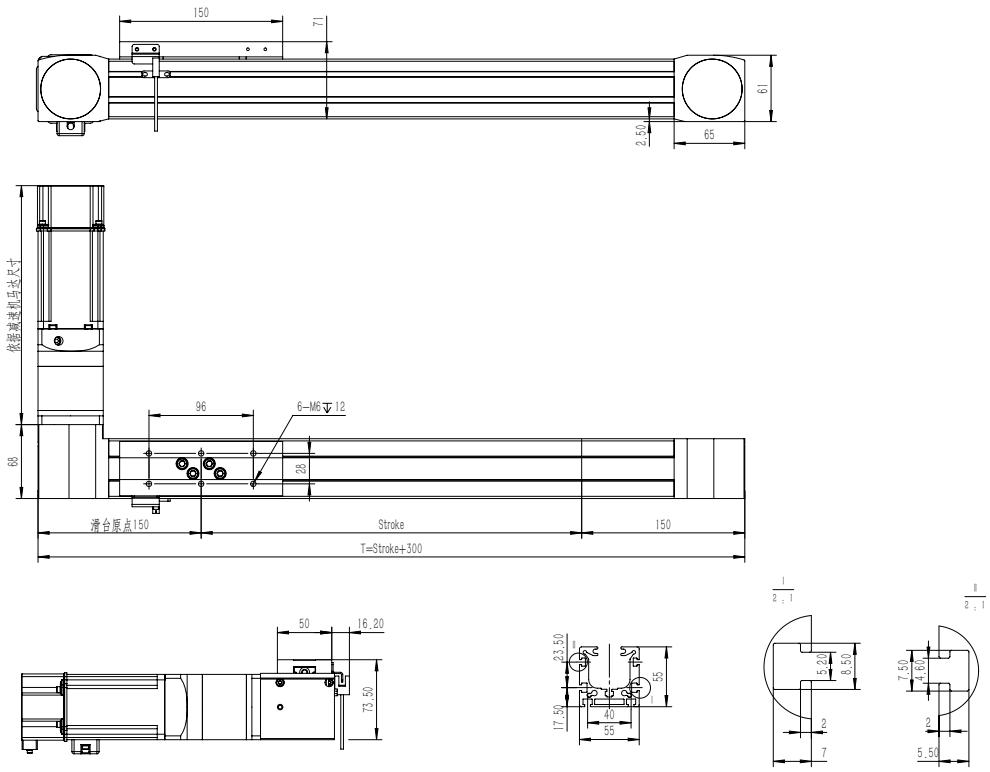
M55X - 400 - R - D - K3 - M 200 W - N - S 3

Model	Stroke mm	motor shaftdirection	Motor connection	Reduction ratio	Motor brand	Motor power	Photoelectric switch	Number of photoelectric switches
M55X		L: Left side plug-in shaft type	D: direct mount	3	M: Mitsubishi		N:NPN type	S1: Switch*1
		R: right side plug-in shaft type		5	Y: Yaskawa		P:PNP type	Sn: Switch*n
				7	T: Delta		NO: no photoelectric switch	
				10	P: Panasonic			
				...				

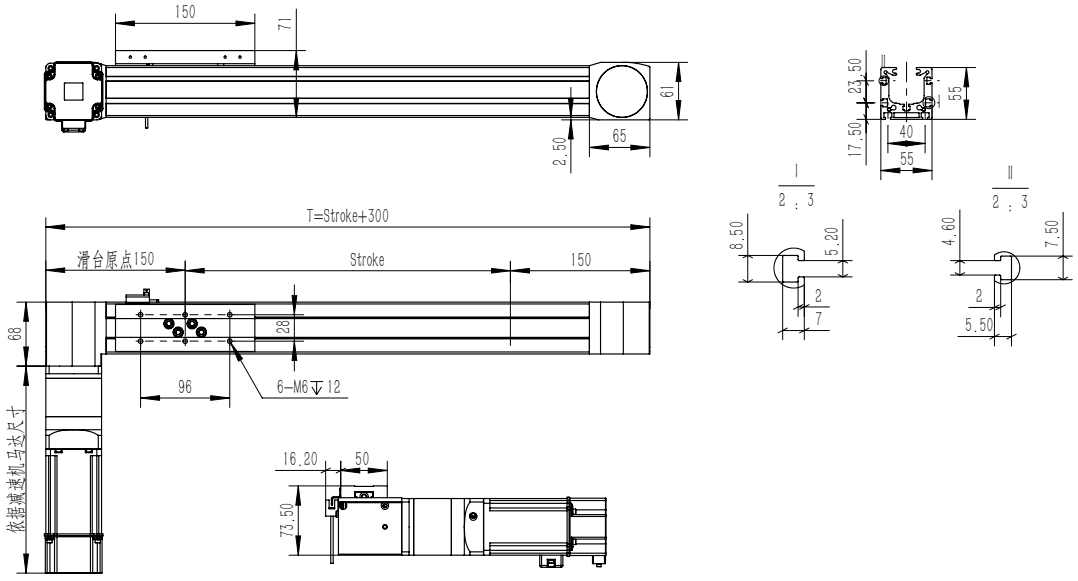
Standard motor output (W)	200W			400W		
Rated torque (N·m)	0.64			1.3		
Repeatable positioning accuracy (mm)	±0.1					
Rated thrust (N)	45			89		
Max stroke(mm)	100-3000mm / Interval100mm					
Timing belt specifications	25×5 (lead 150mm)					
Gear ratio	1:1	3:1	5:1	1:1	3:1	5:1
Maximum speed(mm/s)	7500	2500	1500	7500	2500	1500
Maximum Load (kg)	3	5	8	5	8	12
Base weight 0mm Stroke kg	3					
Increase weight every100mm Stroke Kg	0.45					
Photoelectric switch	PM-T45			NPNtype Cable length1M		
	PM-T45-P			PNPtype Cable length1M		
Briquettes	The details were specified on page 198					



M55X-L-D



M55X-R-D



Note: M55X-R-D is symmetrical with M55X-L-D

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

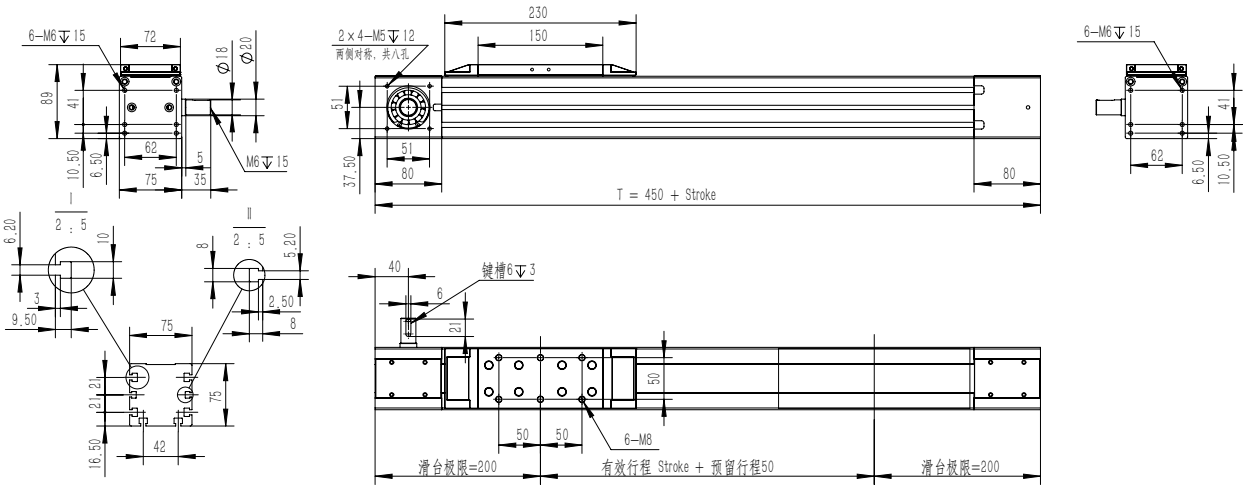
M80

M80 -	400 -	R	- D -	K3 -	p	750 W -	N -	S 3
Model	Stroke mm	motor shaftdirection	Motor connection	Reduction ratio	Motor brand	Motor power	Photoelectric switch	Number of photoelectric switches
		L: Left side plug-in shaft type	D: direct mount	3	M: Mitsubishi		N:NPN type	S1: Switch*1
		R: right side plug-in shaft type	P: Indirect installation	5	Y: Yaskawa		P:PNP type	Sn: Switch*n
				7	T: Delta		NO: no	
		B:Double output shaft	DP:Motor fold down	10	P: Panasonic		photoelectric switch	
		BL:Left side of dual output shaft motor	FP:Motor fold forward	...				
		BR:Left side of dual output shaft motor						

Standard motor output (W)		400W				750W			
Rated torque (N·m)		1.3				2.4			
Repeatable positioning accuracy (mm)		±0.1							
Rated thrust (N)		180				340			
Max stroke(mm)		100-5000mm / Interval100mm							
Timing belt specifications		25×5 (Lead 150mm)							
Gear ratio		3:1	5:1	7:1	10:1	3:1	5:1	7:1	10:1
Maximum speed(mm/s)		2500	1500	1071	750	2500	1500	1071	750
Maximum Load (kg)	horizonta	18	30	45	60	28	40	53	75
	vertical	5	9	13	17	8	12	16	23
Base weight 0mm Stroke kg		11.64							
Increase weight every100mm Stroke Kg		0.72							
Photoelectric switch		PM-T45				NPN type Cable length:1M			
		PM-T45-P				PNP type Cable length:1M			
Briquettes		The details were specified on page 198							

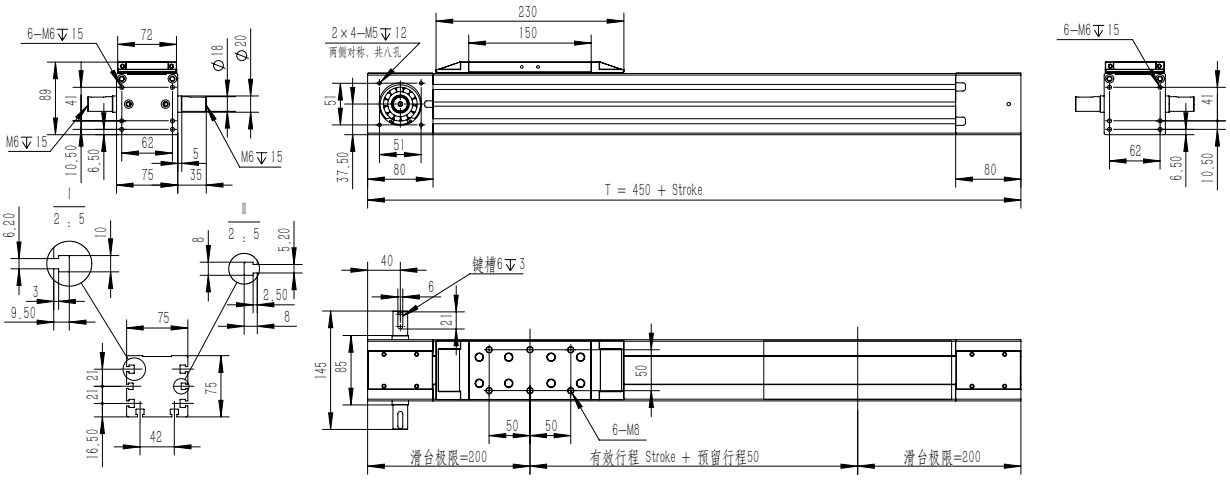


M80-L



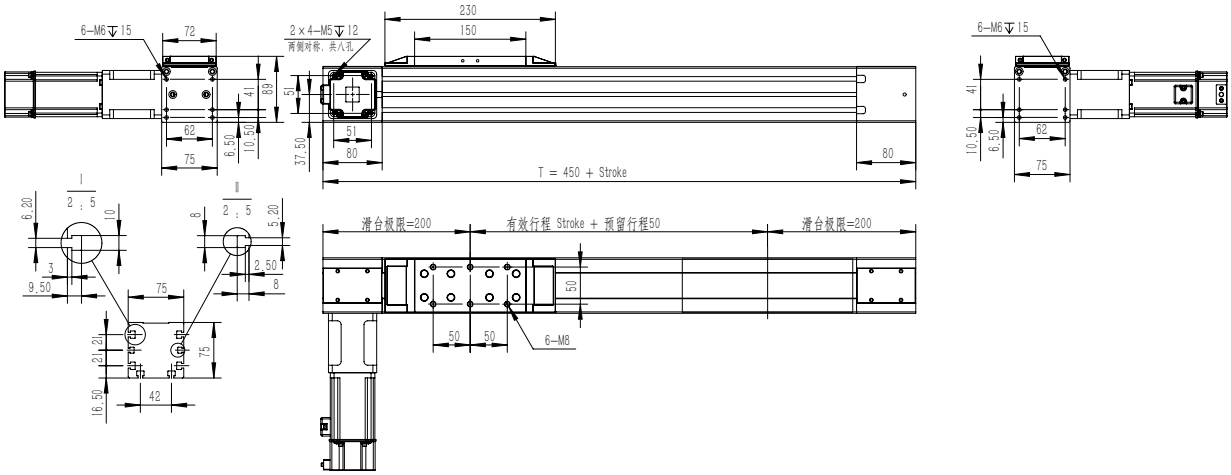
Note: M80-R is symmetrical with M80-L

M80-B

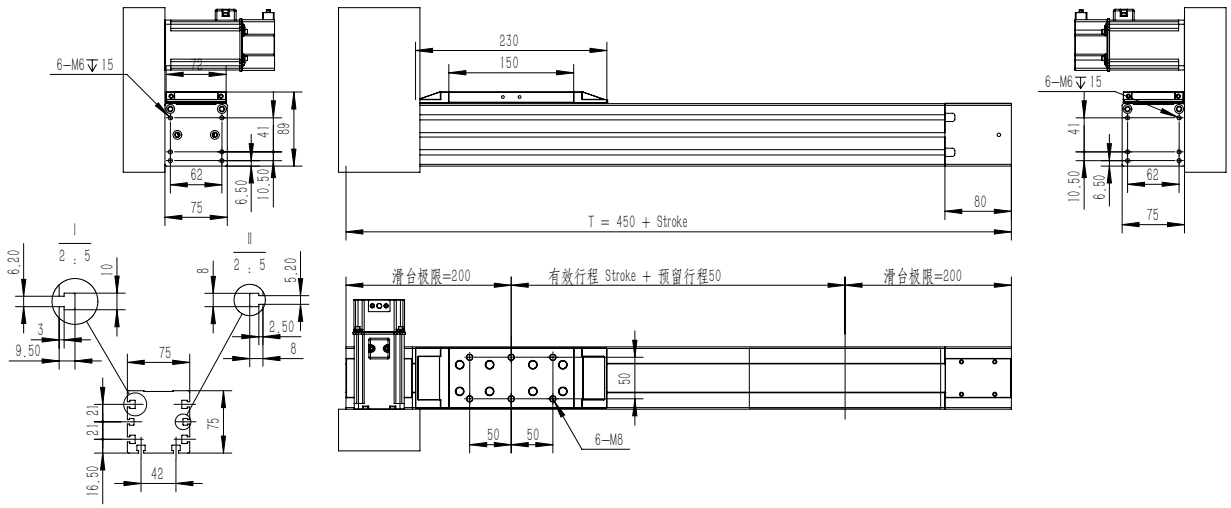


This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

M80-R-D



M80-R-P



Note: M80-L-P is symmetrical with M80-R-P

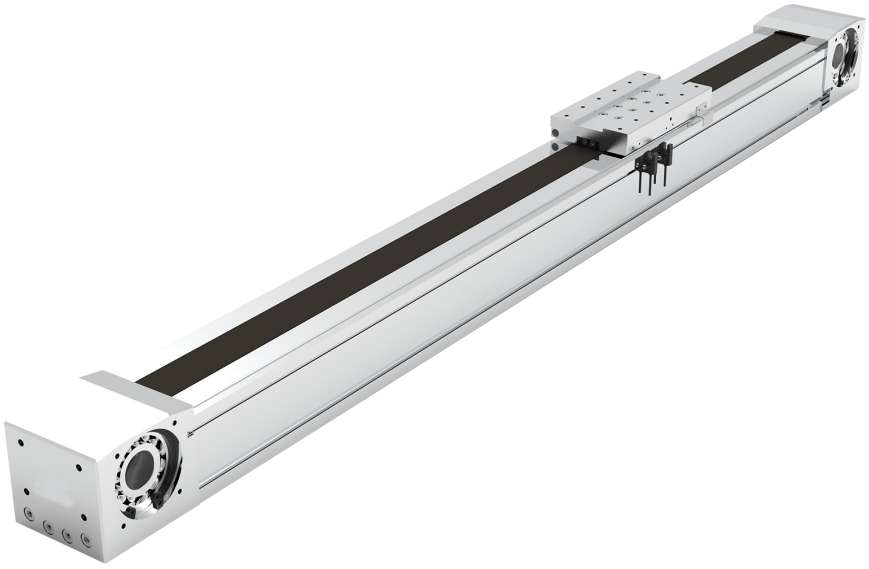
This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

M112

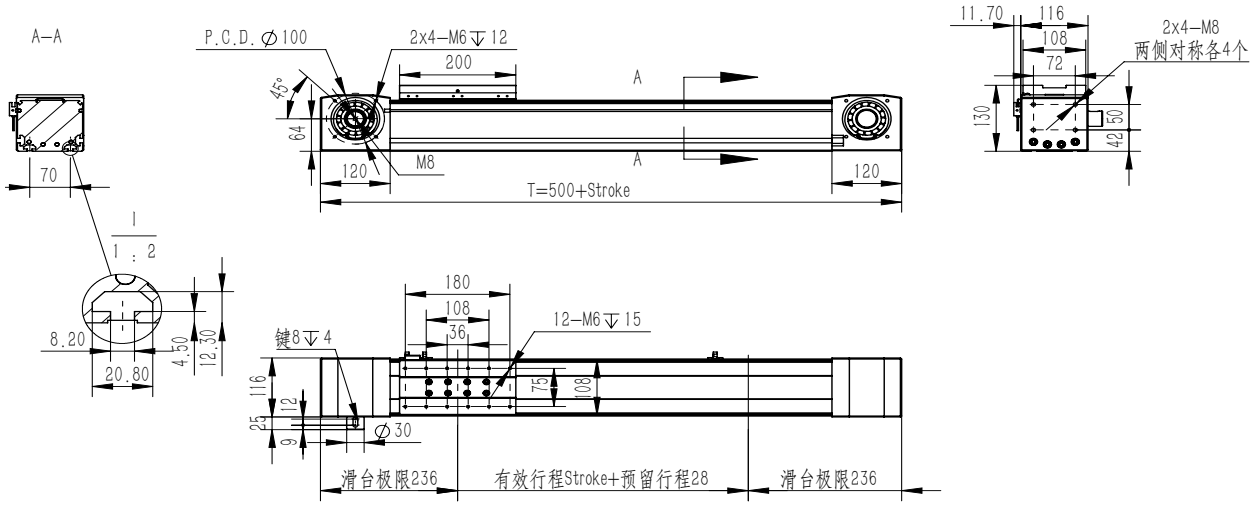
M112 - 400 - R - D - K3 - p 750 W - N - S 3

Model	Stroke mm	motor shaftdirection	Motor connection	Reduction ratio	Motor brand	Motor power	Photoelectric switch	Number of photoelectric switches
		L: Left side plug-in shaft type	D: direct mount	3	M: Mitsubishi		N:NPN type	S1: Switch*1
		R: right side plug-in shaft type	P: Indirect installation	5	Y: Yaskawa		P:PNP type	Sn: Switch*n
				7	T: Delta			
		B:Double output shaft	DP:Motor fold down	10	P: Panasonic			
		BL:Left side of dual output shaft motor	FP:Motor fold forward	...				
		BR:Left side of dual output shaft motor						

Standard motor output (W)		750W			
Rated torque (N·m)		2.4			
Repeatable positioning accuracy (mm)		±0.1			
Rated thrust (N)		765			
Max stroke(mm)		100-5000mm / Interval100mm			
Timing belt specifications		45×5（Lead 220mm）			
Gear ratio		7:1	10:1	15:1	20:1
Maximum speed(mm/s)		1571	1100	733	550
Maximum Load (kg)	horizonta	70	100	150	200
	vertical	15	23	36	50
Base weight 0mm Stroke kg		19.85			
Increase weight every100mm Stroke Kg		0.94			
Photoelectric switch		PM-T45		NPNtype Cable length:1M	
		PM-T45-P		PNPtype Cable length:1M	
Briquettes		The details were specified on page 198			

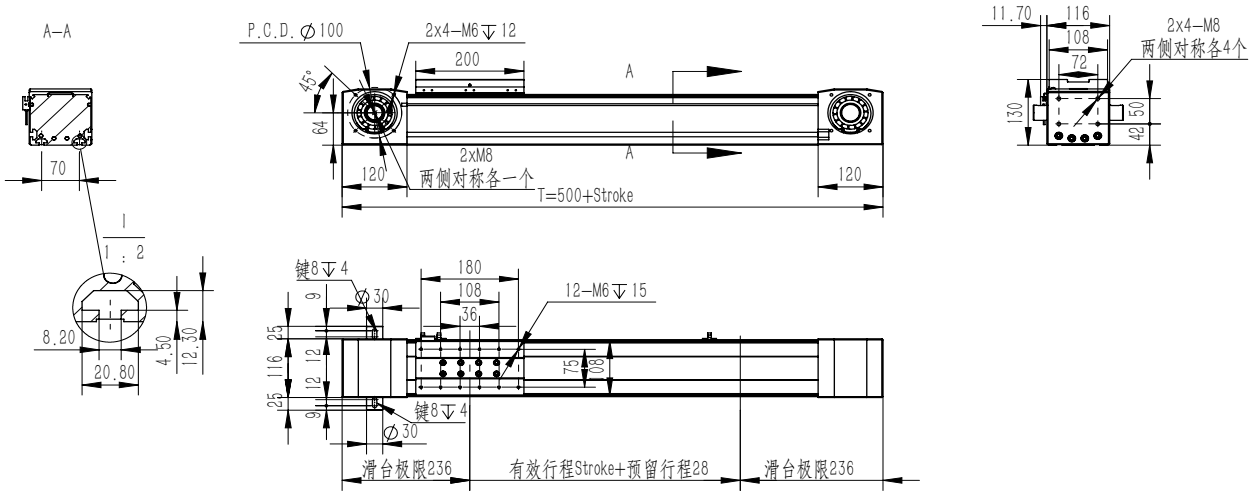


M112-R



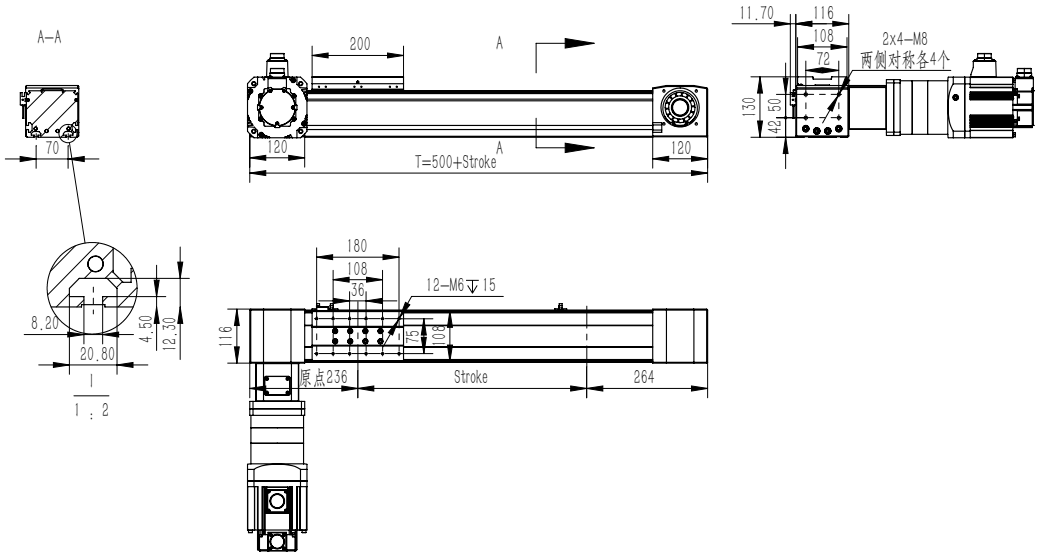
Note: M112-L is symmetrical with M112-R

M112-B



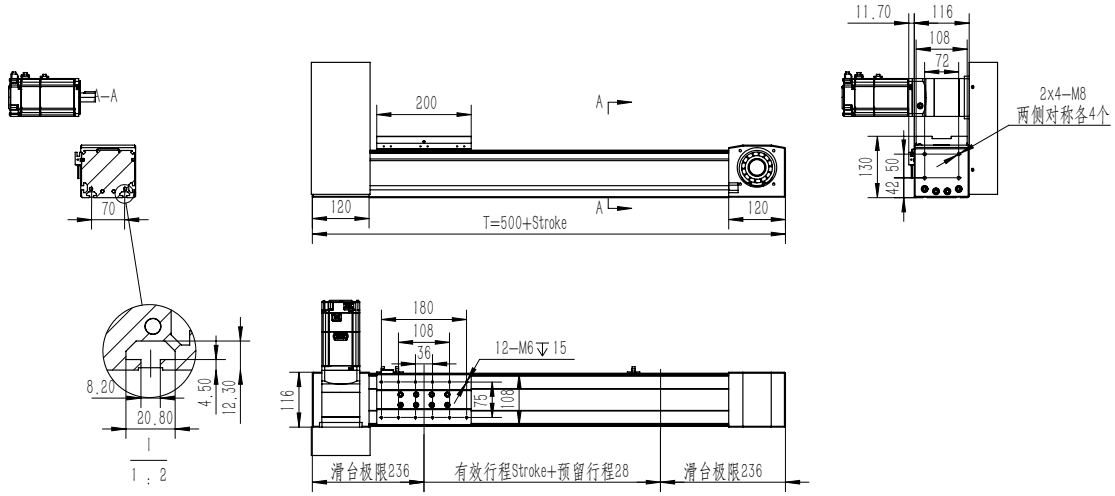
This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

M112-R-D



Note: M112-L-D is symmetrical with M112-R-D

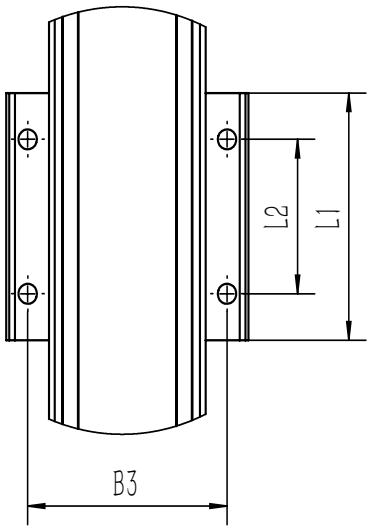
M112-R-P

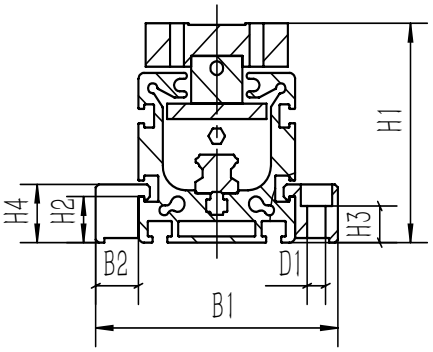


Note: M112-L-P is symmetrical with M112-R-P

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Fixed briquettes





Model	Applications	B1	B2	B3	φD1	H1	H2	H3	H4	L1	L2
YKM55	M55X	85	15	70	6.5	71	14.9	11.9	18.9	80	50
YKM80	M80	105	15	87	6.5	89	13.4	10.9	17.9	80	50
YKM112	M112	154	21	130	8.5	130	16.6	16	23	100	70

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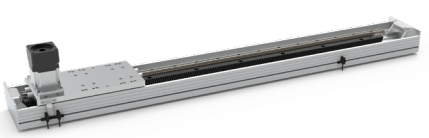
MX series gear rack module



MX140

MX140 - 1000 - L100 - 6P - K3 - P400W - S3 - 01

- MX140 — Model
- 1000 — Lead mm
- L100 — Gear lead
- 6P — Briquettes number **6P:Briquettes*6**
- K3 — Reduction ratio
- P400W — Motor brand、Power
  M:mitsubishi
  P: Panasonic
  Y:Yaskawa
  T:Delta
- S3 — Photoelectric switch
  S1:Switch*1
  Sn:Switch*n
- 01 — Non standard customization

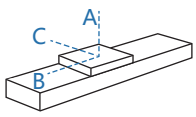


Performance	Repeatable positioning accuracy (mm)		±0.05	
	Gear lead"1 (mm)		About100	
	Maximum speed"2 (mm/s)		500	1000	1650
	Maximum handling weight	Horizontal(kg)	100	60	35
		Vertical(kg)	35	20	15
	Reduction ratio"3		1/10	1/5	1/3
	Rated thrust(N)		833	416	250
	Standard stroke(mm)		900-5600mm/Interval 100mm pitch		
Accessory	Drive power (W)		400		
	Linear guide rail (mm)		W15xH12.5		
	Origin sensor	External hanging	PM-T45/PM-T45-P		

The actual lead of the gear after one revolution is 99.26mm.
The correct calculation equation is
lead÷ reduction ratio ×motor speed = actual ×speed

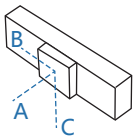
Allowable Overhang

(单位 : mm) (Unit : mm)



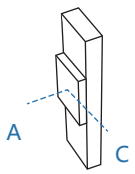
Horizontal installation		A	B	C
10Lead	100kg	867	173	156
	150kg	567	113	101
	200kg	420	85	75
20Lead	55kg	788	157	142
	80kg	530	107	96
	110kg	382	77	69
33Lead	30kg	723	144	130
	50kg	308	85	77
	70kg	300	60	55

(单位 : mm) (Unit : mm)



Wall mounting		A	B	C
10Lead	100kg	173	200	867
	150kg	113	131	567
	200kg	85	98	420
20Lead	55kg	256	269	1261
	80kg	172	182	849
	110kg	124	130	611
33Lead	30kg	341	360	1444
	50kg	200	212	849
	70kg	142	150	601

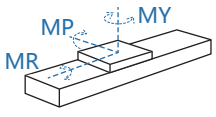
(单位 : mm) (Unit : mm)



Vertical installation		A	B
10Lead	20kg	1000	810
	30kg	654	519
	40kg	485	381
20Lead	10kg	1625	1317
	20kg	797	632
	30kg	525	413
33Lead	5kg	2363	1915
	10kg	1158	919
	20kg	573	450

Static loading Moment

(单位 : N.m) (Unit : N.m)



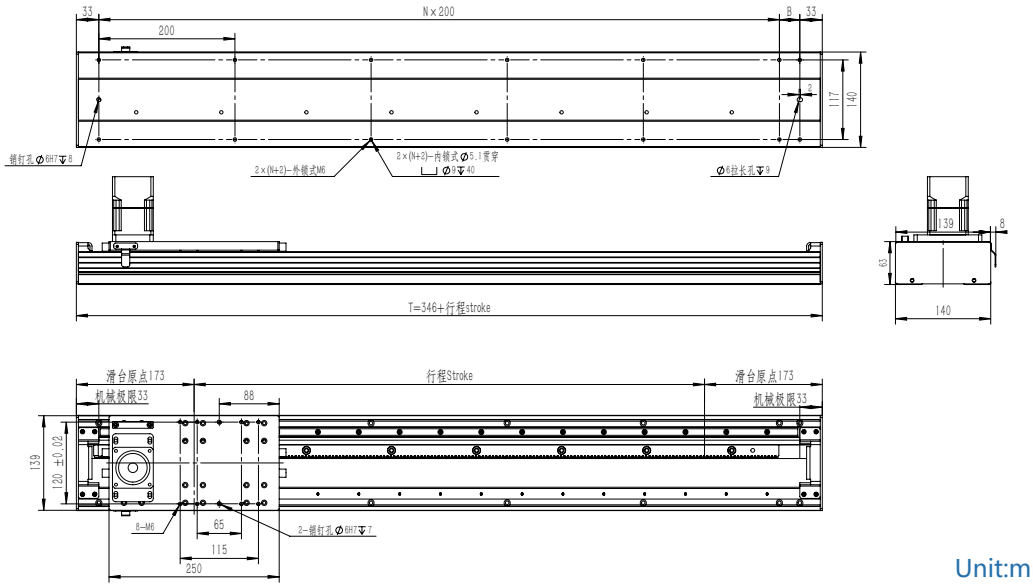
Horizontalinstallation	
MY	716
MP	718
MR	631

※ The moment of gravity represented by the data

※ The service life of the product is700 0 km under thestandard service con ditions.

※ Inverted crane can not apply the sta ndard specification, if you need, ple ase contact us

Standard type



Unit:mm

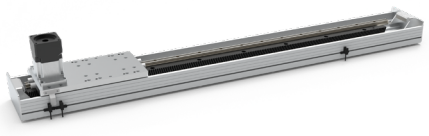
Stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900
T	1346	1446	1546	1646	1746	1846	1946	2046	2146	2246	2346	2446	2546	2646	2746	2846	2946	3046	3146	3246
B	80	180	80	180	80	180	80	180	80	180	80	180	80	180	80	180	80	180	80	180
N	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
Weight(kg)	20.4	21.6	22.8	23.9	25.1	26.2	27	28.6	29.7	30.9	32.1	33.2	34.4	35.5	36.7	37.9	39.0	40.2	41.4	42.5

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

MX178

MX178 - 1000 - L133 - 6P - K3 - P750W - S3 - 01

- **Model**: MX178
- **Lead mm**: 1000
- **Gear lead**: L133
- **Briquettes number**: 6P:Briquettes*6
- **Reduction ratio**: K3
- **Motor brand、Power**: M:mitsubishi; P: Panasonic; Y:Yaskawa; T:Delta
- **Photoelectric switch**: S1:Switch*1; Sn:Switch*n
- **Non standard customization**: 01

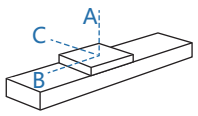


Performance	Repeatable positioning accuracy (mm)		±0.05	
	Gear lead"1 (mm)		About 133	
	Maximum speed"2 (mm/s)		650	1300	2200
	Maximum handling weight	Horizontal(kg	150	75	45
		Vertical(kg)	50	30	20
	Reduction ratio"3		1/10	1/5	1/3
	Rated thrust(N		1133	566	340
	Standard stroke(mm)		900-6000mm/Interval100mm pitch		
Accessory	Drive power (W)		750		
	Linear guide rail (mm)		W20xH19		
	Origin sensor	External hanging	PM-L45/PM-L45-P		

The actual lead of the gear after one revolution is 99.26mm. The correct calculation equation is lead÷ reduction ratio ×motor speed = actual ×speed

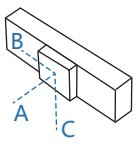
Allowable Overhang

(单位 : mm) (Unit : mm)



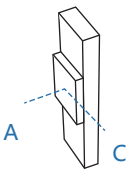
Horizontal installation		A	B	C
13Lead	100kg	1300	260	195
	200kg	637	127	96
	300kg	420	85	64
26Lead	40kg	1625	533	415
	80kg	797	261	203
	160kg	394	129	100
44Lead	30kg	1083	433	358
	50kg	637	255	211
	100kg	316	126	104

(单位 : mm) (Unit : mm)



Wall mounting		A	B	C
13Lead	100kg	300	300	1300
	200kg	147	147	637
	300kg	98	98	420
26Lead	40kg	610	555	2600
	80kg	299	272	1274
	160kg	148	135	631
44Lead	30kg	579	541	2167
	50kg	347	317	1274
	100kg	172	157	631

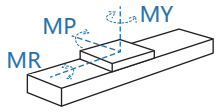
(单位 : mm) (Unit : mm)



Vertical installation		A	B
13Lead	30kg	1000	800
	45kg	654	512
	80kg	364	282
26Lead	20kg	1219	975
	30kg	797	624
	50kg	473	367
44Lead	8kg	2217	1773
	20kg	868	681
	30kg	573	445

Static loading Moment

(单位 : N.m) (Unit : N.m)



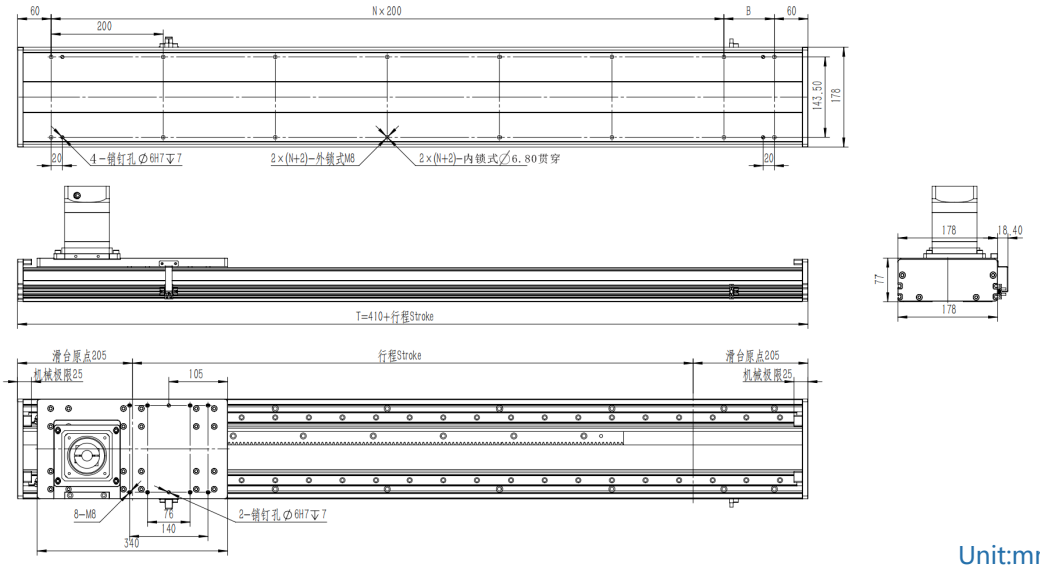
Horizontalinstallation	
MY	1342
MP	1344
MR	1180

※ The moment of gravity represented by the data

※ The service life of the product is7000 km under thestandard service conditions.

※ Inverted crane can not apply the standard specification, if you need, please contact us

Standard type



Unit:mm

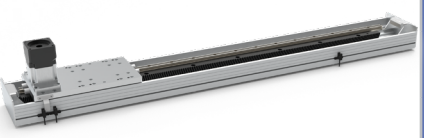
Stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900
T	1410	1510	1610	1710	1810	1910	2010	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310
B	90	190	90	190	90	190	90	190	90	190	90	190	90	190	90	190	90	190	90	190
N	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
Weight(kg)	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

MX210

MX210 - 1000 - L167 - 6P - K3 - P750W - S3 - 01

- **MX210** — Model
- **1000** — Lead mm
- **L167** — Gear lead
- **6P** — Briquettes number
  6P:Briquettes*6
- **K3** — Reduction ratio
- **P750W** — Motor brand、Power
  M:mitsubishi
  P: Panasonic
  Y:Yaskawa
  T:Delta
- **S3** — Photoelectric switch
  S1:Switch*1
  Sn:Switch*n
- **01** — Non standard customization

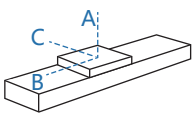


Performance	Repeatable positioning accuracy (mm)		±0.05		
	Gear lead"1 (mm)		About 167		
	Maximum speed"2 (mm/s)		555	833	1666
	Maximum handling weight	Horizontal(kg	200	90	55
		Vertical(kg)	70	40	25
	Reduction ratio"3		1/15	1/10	1/5
	Rated thrust(N		1147	765	382
	Standard stroke(mm)		900-5500mm/interval 100mm pitch		
Accessory	Drive power (W)		750		
	Linear guide rail (mm)		W23xH22		
	Origin sensor	External hanging	PM-T45/PM-T45-P		

The actual lead of the gear after one revolution is 166.6mm, and the motor acceleration time is set to 0.4s

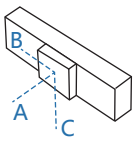
Allowable Overhang

(单位 : mm) (Unit : mm)



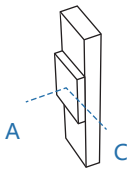
Horizontal installation		A	B	C
13Lead	100kg	1950	385	273
	200kg	956	189	134
	300kg	631	125	88
26Lead	40kg	2438	789	580
	80kg	1195	386	285
	160kg	592	191	140
44Lead	30kg	1625	641	501
	50kg	956	377	294
	100kg	473	187	146

(单位 : mm) (Unit : mm)



Wall mounting		A	B	C
13Lead	100kg	420	436	130
	200kg	205	213	637
	300kg	135	140	420
26Lead	40kg	853	806	2600
	80kg	419	395	1274
	160kg	207	195	631
44Lead	30kg	827	784	2167
	50kg	486	462	1274
	100kg	241	228	631

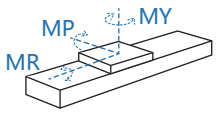
(单位 : mm) (Unit : mm)



Vertical installation		A	B
13Lead	30kg	1300	1039
	45kg	850	666
	80kg	473	367
26Lead	20kg	1585	1268
	30kg	1035	811
	50kg	615	477
44Lead	8kg	2881	2305
	20kg	1130	886
	30kg	745	578

Static loading Moment

(单位 : N.m) (Unit : N.m)



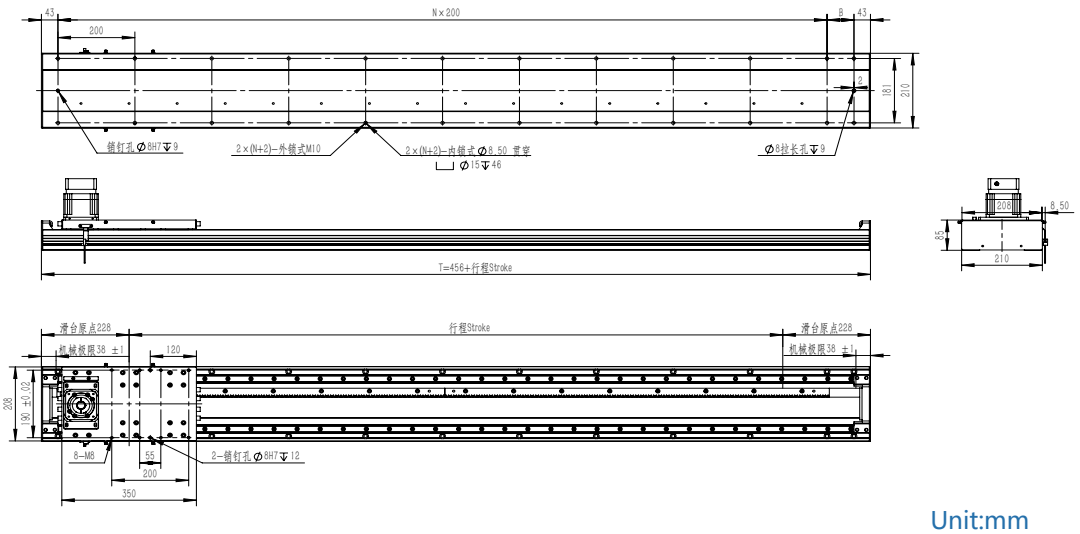
Horizontal installation	
MY	2052
MP	2052
MR	1810

※ The moment of gravity represented by the data

※ The service life of the product is7000 km under thestandard service conditions.

※ Inverted crane can not apply the standard specification, if you need, please contact us

Standard type



Unit:mm

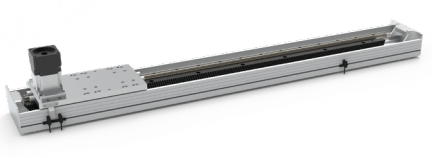
Stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900
T	1456	1556	1656	1756	1856	1956	2056	2156	2256	2356	2456	2556	2656	2756	2856	2956	3056	3156	3256	3356
B	170	70	170	70	170	70	170	70	170	70	170	70	170	70	170	70	170	70	170	70
N	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16
Weight(kg)	46.2	48.5	50.8	53.1	55.4	57.7	60	62.3	64.6	66.9	69.2	71.5	73.8	76.1	78.4	80.7	83	85.3	87.6	89.9

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

MX270

M270 - 1000 - L250 - 6P - K3 - P 1.5W S3 - 01

- M270 - Model
- 1000 - Lead mm
- L250 - Gear lead
- 6P - Briquettes number 6P:Briquettes*6
- K3 - Reduction ratio
- P 1.5W - Motor brand、Power M:mitsubishi P: Panasonic Y:Yaskawa T:Delta
- S3 - Photoelectric switch S1:Switch*1 Sn:Switch*n
- 01 - Non standard customization

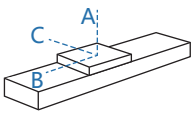


Performance	Repeatable positioning accuracy (mm)		±0.05		
	Gear lead"1 (mm)		About 250		
	Maximum speed"2 (mm/s)		416	555	833
	Maximum handling weight	Horizontal(kg	400	300	170
		Vertical(kg)	180	120	80
	Reduction ratio"3		1/20	1/15	1/10
	Rated thrust(N		2880	2160	1440
	Standard stroke(mm)		900-5300mm/Interval100mm pitch		
Accessory	Drive power (W)		1500 (Torque7.16)		
	Linear guide rail (mm)		W28xH26		
	Origin sensor	External hanging	PM-T45/PM-T45-P		

The actual lead of the gear after one revolution is 250mm, and the motor acceleration time is set to 0.4s

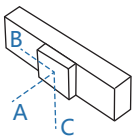
Allowable Overhang

(单位 : mm) (Unit : mm)



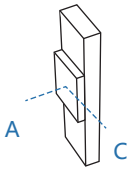
Horizontal installation		A	B	C
10: 1	170kg	1460	623	352
15: 1	300kg	1086	307	187
20: 1	400kg	967	205	129

(单位 : mm) (Unit : mm)



Wall mounting		A	B	C
10:1	170kg	316	560	1315
15:1	300kg	148	245	864
20:1	400kg	91	142	672

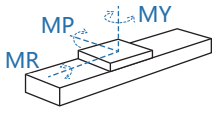
(单位 : mm) (Unit : mm)



Vertical installation		A	C
10:1	80kg	700	800
15:1	120kg	530	600
20:1	180kg	420	475

Static loading Moment

(单位 : N.m) (Unit : N.m)



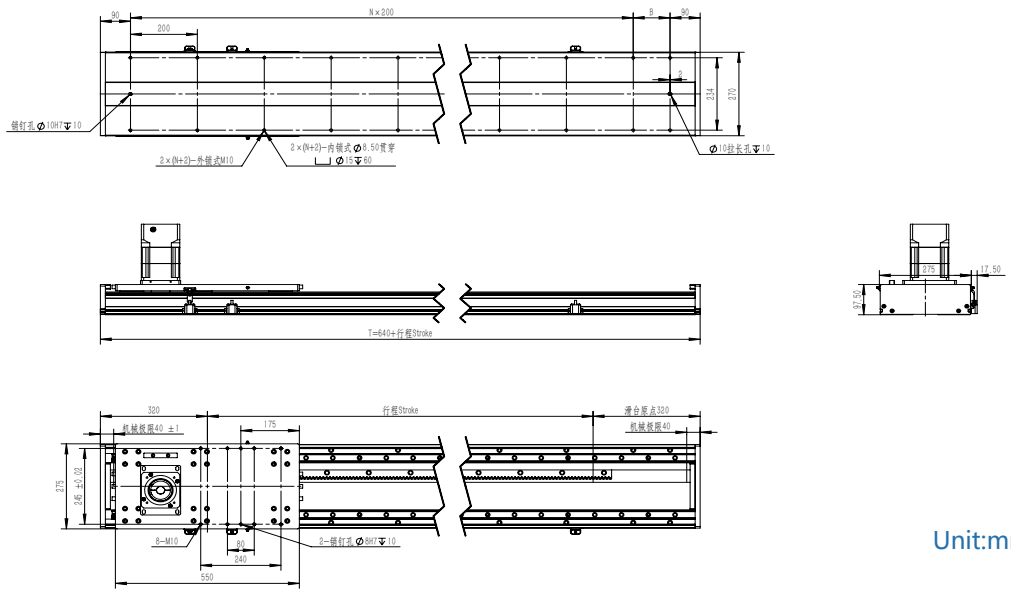
Horizontalinstallation	
MY	5798
MP	5798
MR	4792

※ The moment of gravity represented by the data

※ The service life of the product is7000 km under thestandard service conditions.

※ Inverted crane can not apply the standard specification, if you need, please contact us

Standard type



Stroke	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900
T	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940	3040	3140	3240	3340	3440	3540
B	60	160	60	160	60	160	60	160	60	160	60	160	60	160	60	160	60	160	60	160
N	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16
Weight(kg)	86.7	89.2	91.7	94.2	96.7	99.2	101.7	104.2	106.7	109.2	111.7	114.2	116.7	119.2	121.7	124.4	127.1	129.8	132.5	135.2

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

>>>13

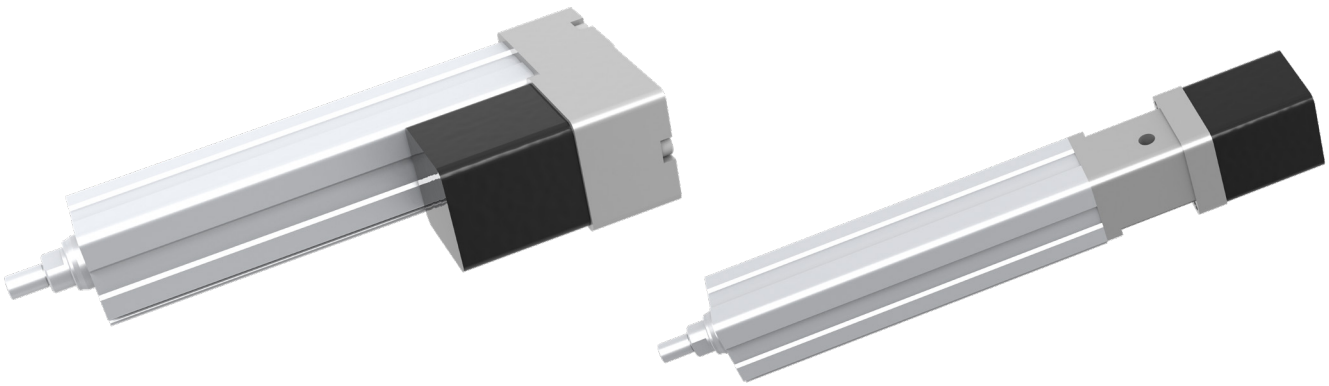
C Series Compact electric cylinder

Space saving and easy installation

Compared to the standard electric cylinder, the space has been reduced by 30% year-on-year
Minimum installation size 25mm

High transmission efficiency

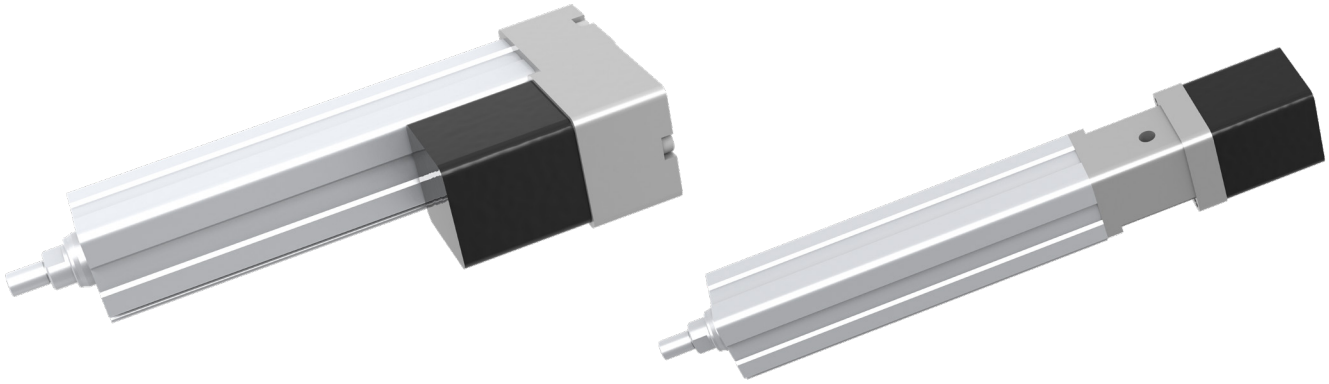
Transmission efficiency can reach over 90%



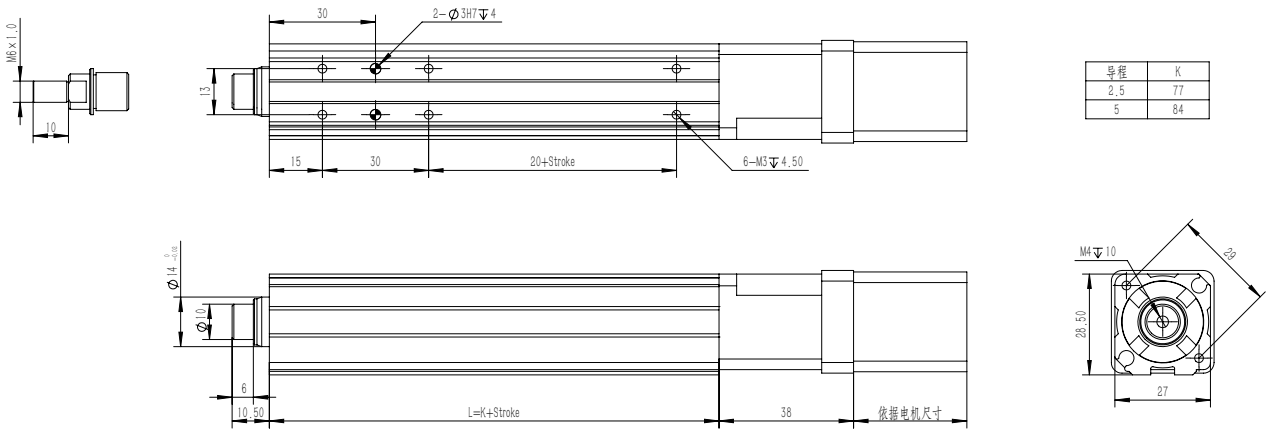
C12

C12	- 100 -	P2.5	- D -	S	28	- A -	S1
Model	Stroke	Lead	Motor installation	Motor brand	Motor power	Jaw	Switch
		P2.5:2.5mm P05:5mm	D:Direct installation P:Indirect installation	M:Mitsubishi P:Panasonic Y:Yaskawa T: Delta S: Stepper 28		A: External jaw M6x1 No:Inner jaw M4x0.7	Sn:Switch*n

Standard motor output (W)	Stepper 28	
Rated torque (N·m)	0.09	
Repeatable positioning accuracy (mm)	±0.02	
Screw specification	082.5	
Max thrust (N)	220	
Max speed (mm/s)	40	
Max stroke (mm)	100	
Max load (kg)	5	
Screw grade	C7 Rolling 0802 (Slenderness ratio 1:50)	
Piston rod rotation angle	±0.7 degree	
Maximum driving torque	0.5	
Basic weight 0mm stroke kg	0.3	
Increase weight by kg per 100mm stroke	0.1	
Switches	CS1-H-1M	Contact type magnetic spring switch wire length 1M

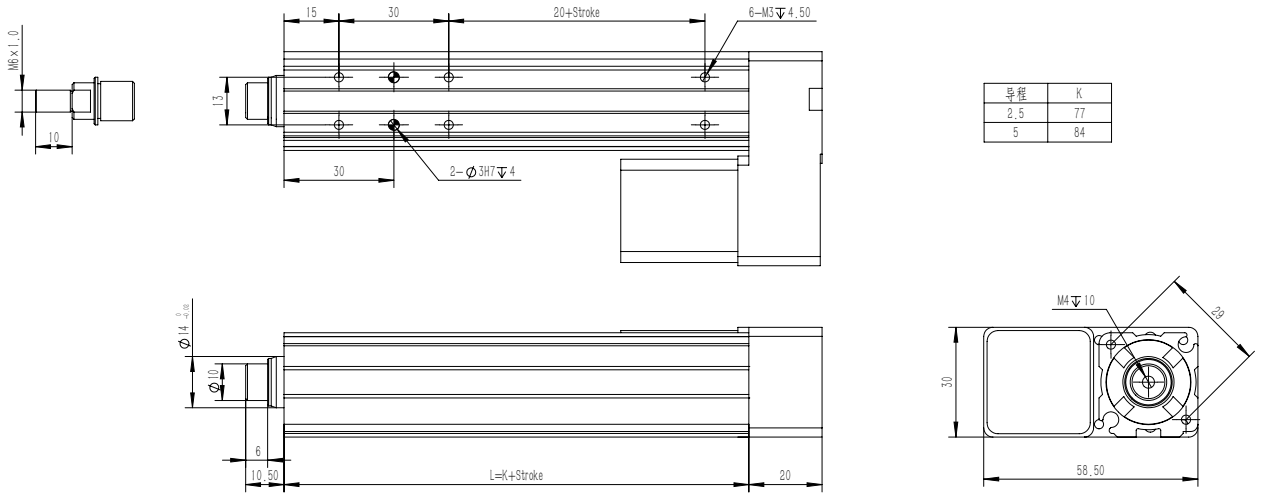


C12-D



导程	K
2.5	77
5	84

C12-P



导程	K
2.5	77
5	84

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

C16

C16	- 100 -	P2.5	- D -	S	28	- A -	S1
Model	Stroke	Lead	Motor installation	Motor brand	Motor power	Jaw	Switch

P2.5:2.5mm
P05:5mm

D:Direct installation
P:Indirect installation

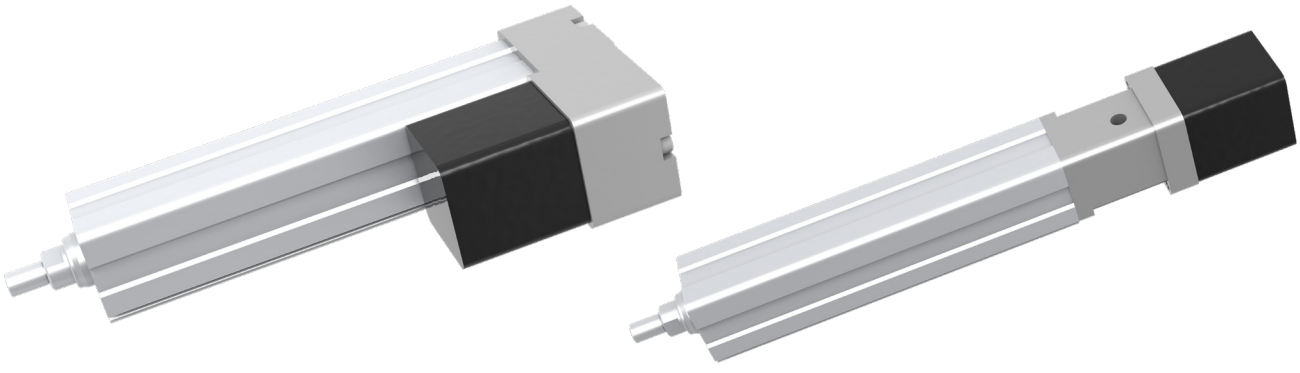
M:Mitsubishi
P:Panasonic
Y:Yaskawa
T: Delta
S: Stepper 28

A: External jaw M8x1.25
No:Inner jaw M5x0.8

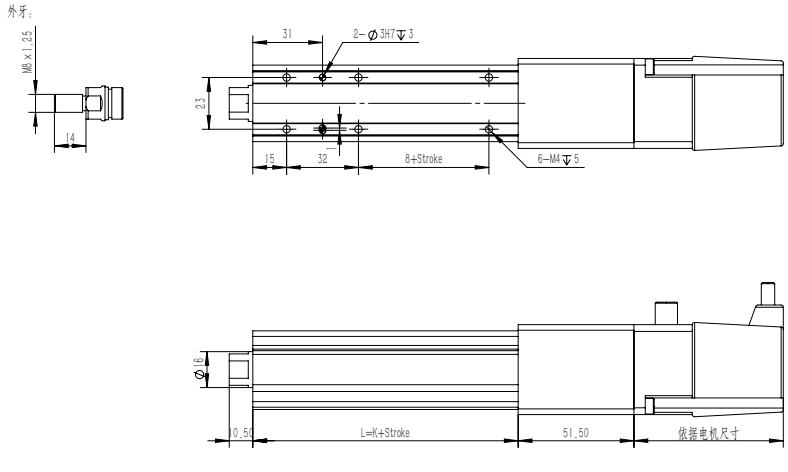
Sn:Switch*n

Standard motor output (W)	50W		Stepper 28	
Rated torque (N·m)	0.16		0.09	
Repeatable positioning accuracy (mm)	±0.02			
Screw specification	082.5/805			
Max thrust (N)	400	160	220	88
Max speed (mm/s)	100	250	40	100
Max stroke (mm)	300			
Max load (kg)	8			
Screw grade	C7 Rolling 0802 (Slenderness ratio1:50)			
Piston rod rotation angle	±0.7degree			
Maximum driving torque	0.5			
Basic weight 0mm stroke kg	0.248			
Increase weight by kg per 100mm stroke	0.274			
Switches	CS1-H-1M	Contact type reed switch, wire length 1m		

The cylinder barrel of lead 05 is 7mm longer than that of lead 02 (the position of the bottom hole remains unchanged, only the motor end is extended)



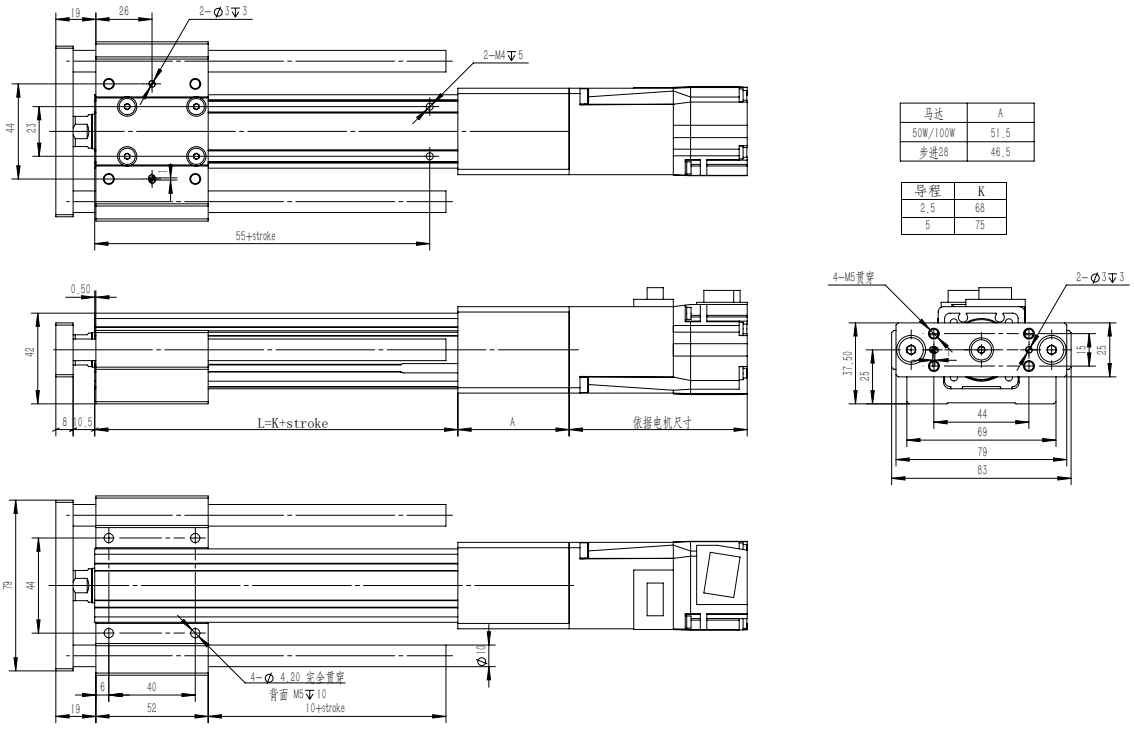
C16-D



马达	A
50W/100W	51.5
步进28	48.5

导程	K
2.5	68
5	75

C16-D-R

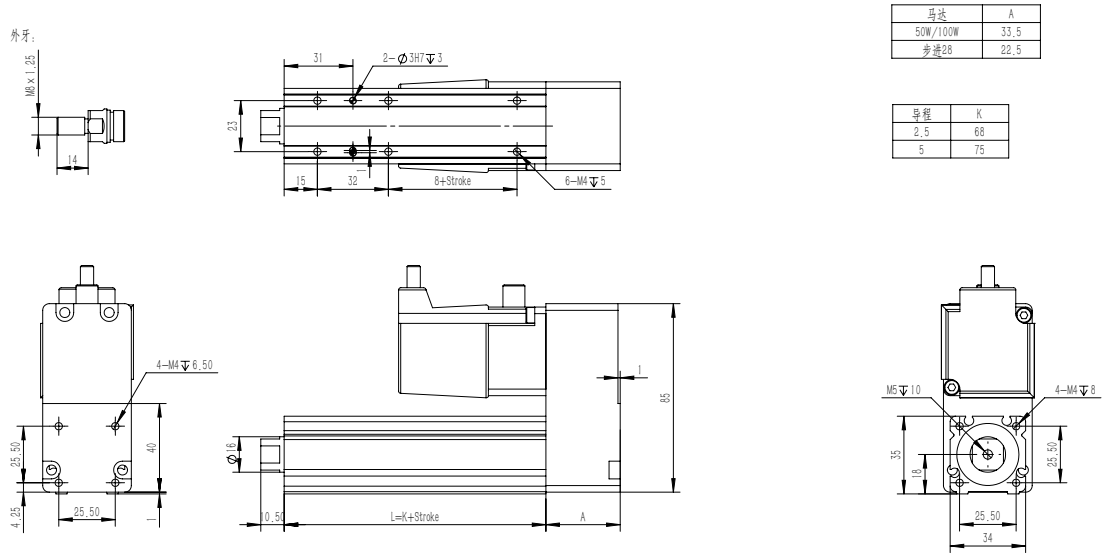


马达	A
50W/100W	51.5
步进28	46.5

导程	K
2.5	68
5	75

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

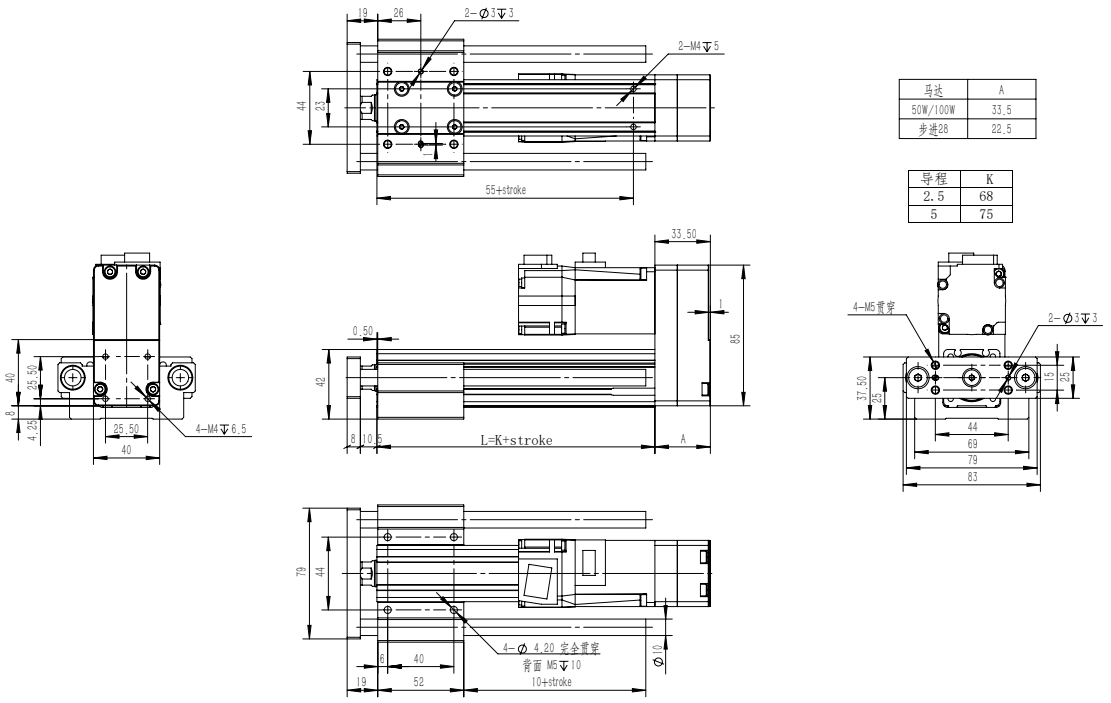
C16-P



马达	A
50W/100W	33.5
步进28	22.5

导程	K
2.5	68
5	75

C16-P-R



马达	A
50W/100W	33.5
步进28	22.5

导程	K
2.5	68
5	75

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

C25

C25	- 100 -	P10	- D -	S	28	- A -	R
Model	Stroke	Lead	Motor installation	Motor brand	Motor power	Jaw	Special structure

P05:5mm P10:10mm

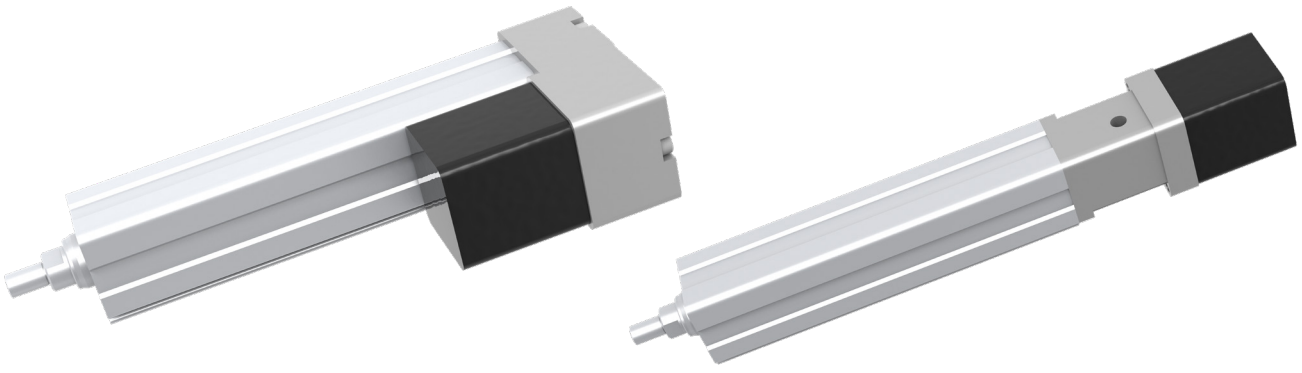
D:Direct installation P:Indirect installation

M:Mitsubishi P:Panasonic Y:Yaskawa T: Delta

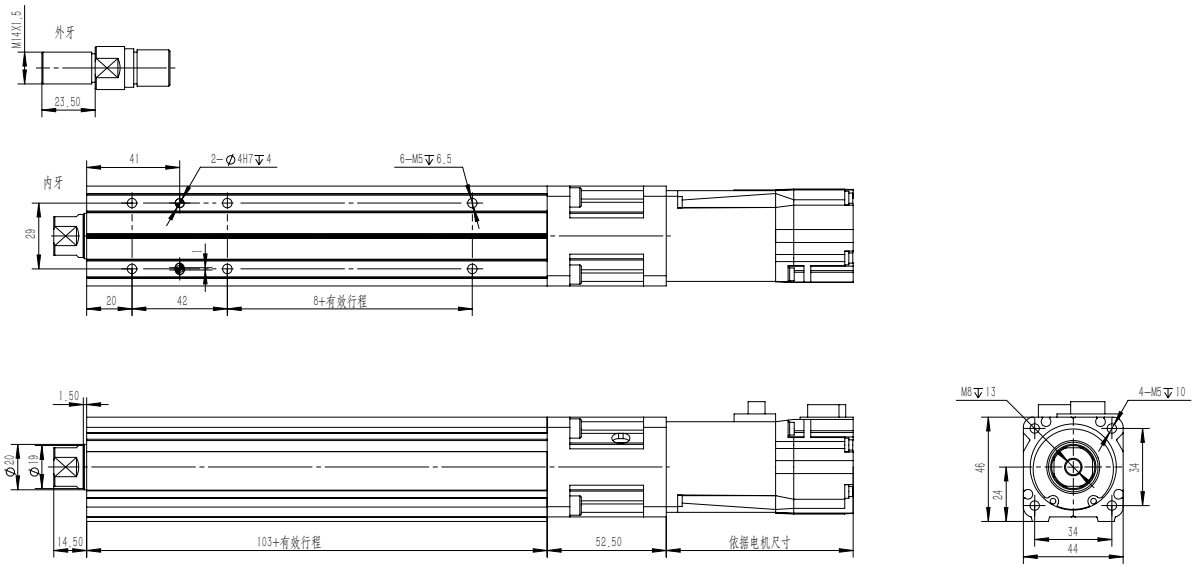
A: External jaw M14x1.5 No:Inner jaw M8x1.25

R: Optical axis guide bra No: Standard cylinder

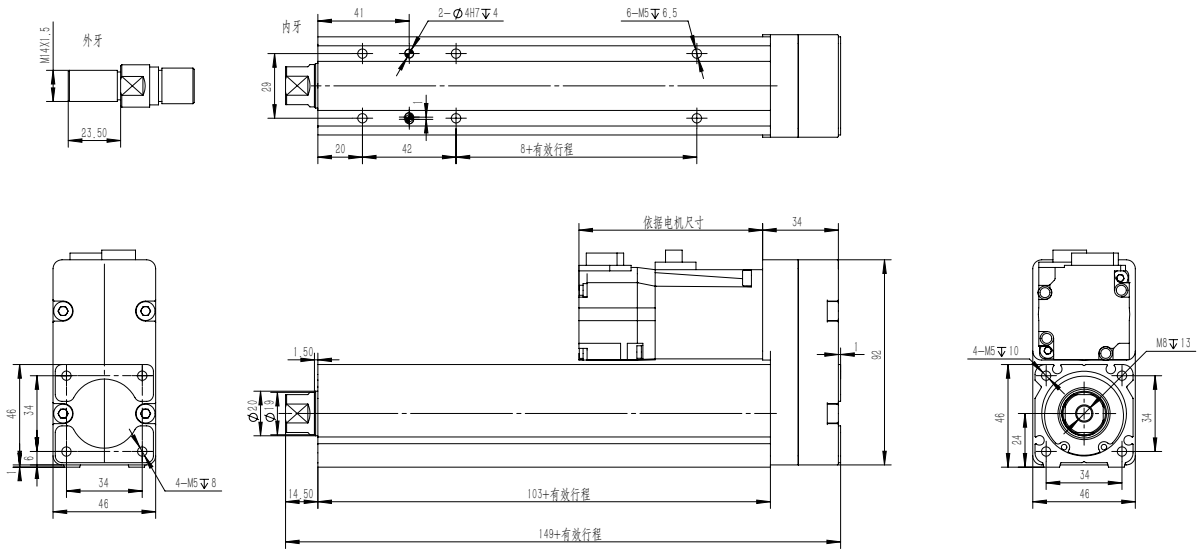
Standard motor output (W)	100W		Stepper 42	
Rated torque (N·m)	0.32		0.25	
Repeatable positioning accuracy (mm)	±0.02			
Screw specification	1210	1205	1210	1205
Max thrust (N)	170	340	125	250
Max speed (mm/s)	500	250	100	50
Max stroke (mm)	Standard: 400 Optical axis and guideway guide cylinder: 250			
Max load (kg)	20			
Screw grade	C7 Grinding 1205/1210 (Grinding 1:52.5)			
Piston rod rotation angle	Standard cylinder: ± 0.7 degrees Optical axis guidance and guide rail guidance cylinder: ± 0.06 degrees			
Maximum driving torque	0.8			
Basic weight 0mm stroke kg	Standard: 0.587			
Increase weight by kg per 100mm stroke	Standard: 0.485			
Switches	CS1-H-1M	Contact type reed switch, wire length 1m		



C25-D

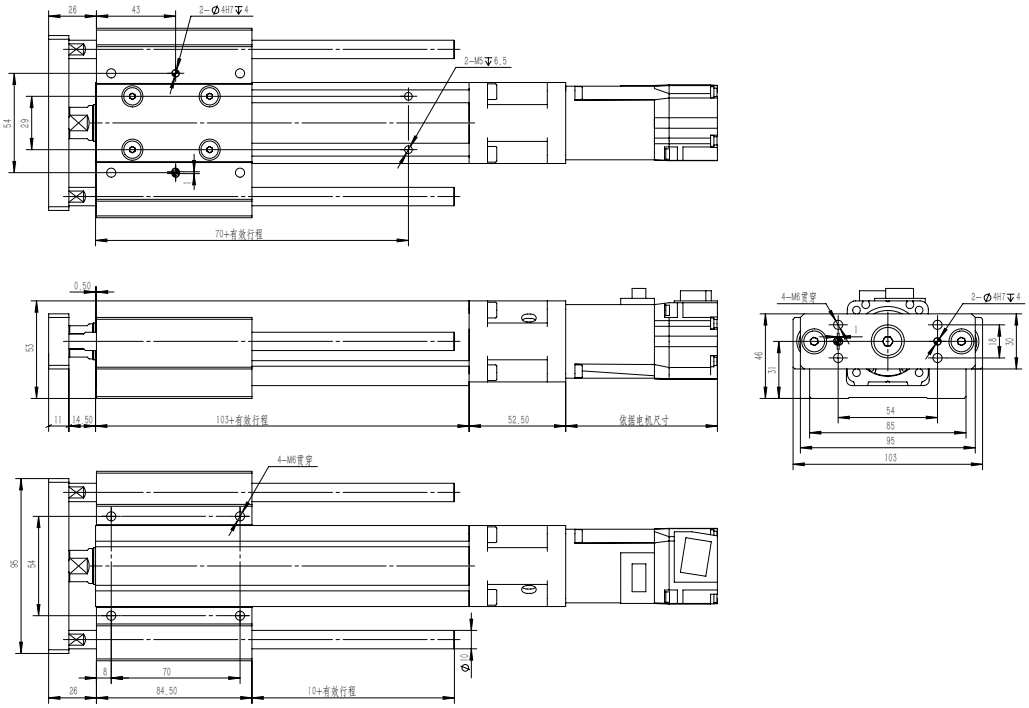


C25-P

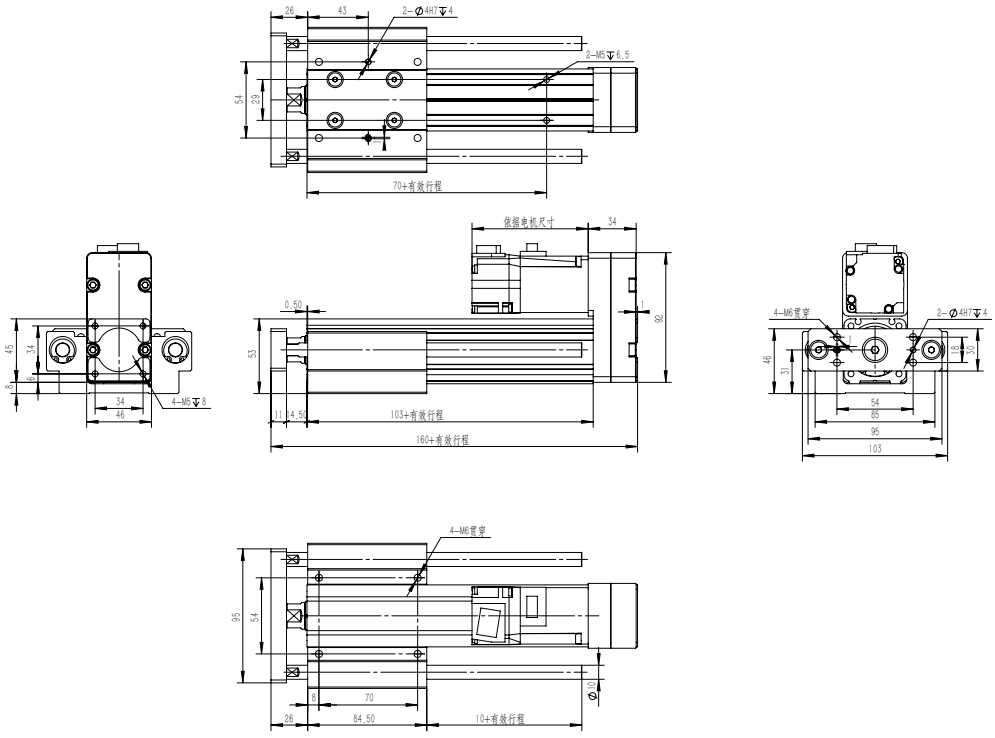


This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

C25-D-R



C25-P-R



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

C32

- 100 -	P10	- D -	S	57	- A -	R
Stroke	Lead	Motor installation	Motor brand	Motor power	Jaw	Special structure

P05:5mm P10:10mm

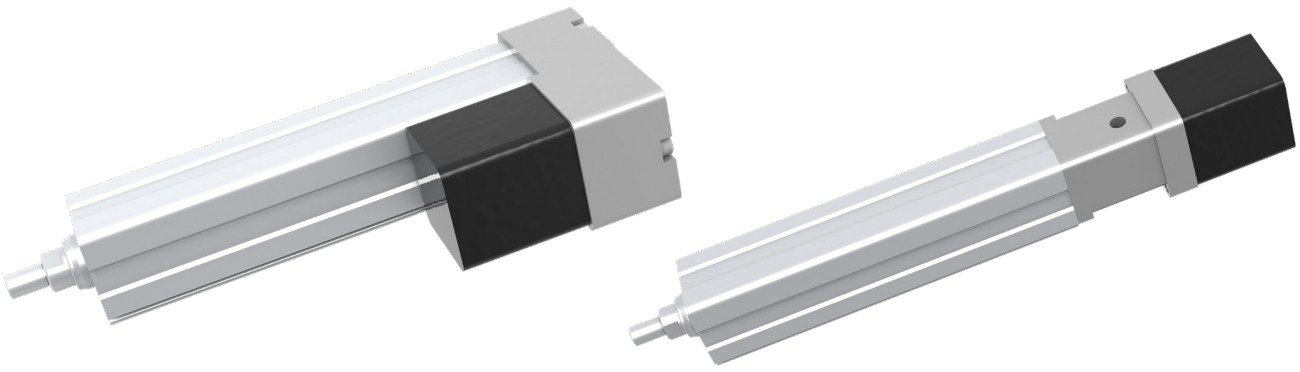
D:Direct installation P:Indirect installation

M:Mitsubishi P:Panasonic Y:Yaskawa T: Delta

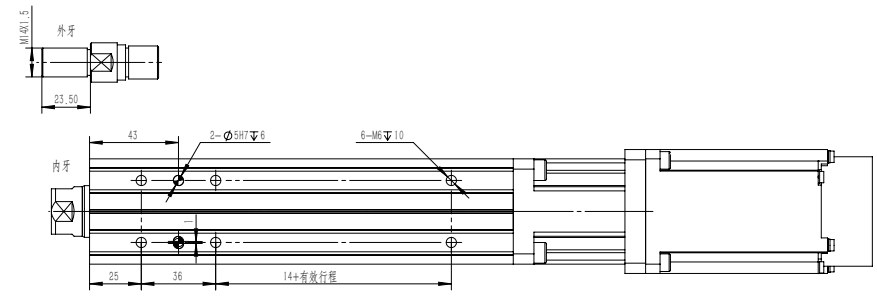
A: External jaw M14x1.5 No:Inner jaw M8x1.25

R: Optical axis guide bracket No: Standard cylinder

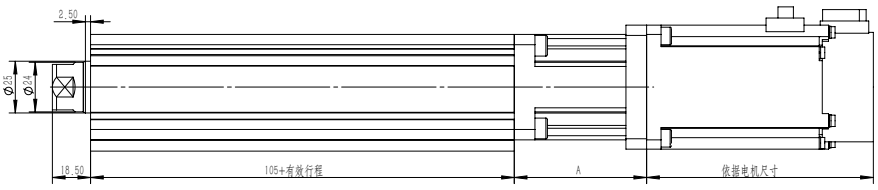
Standard motor output (W)	200W		Stepper57	
Rated torque (N·m)	0.64		0.3	
Repeatable positioning accuracy (mm)	±0.02			
Screw specification	1205	1210	1205	1210
Max thrust (N)	690	350	300	150
Max speed (mm/s)	250	500	100	200
Max stroke (mm)	Standard: 500 Optical axis and guideway guide cylinder: 300			
Max load (kg)	40			
Screw grade	C5 Grinding 1205/1210 (Slenderness ratio 1:52.5)			
Piston rod rotation angle	±0.7 degree			
Maximum driving torque	1.8			
Basic weight 0mm stroke kg	0.869			
Increase weight by kg per 100mm stroke	0.629			
Switches	CS1-H-1M	Contact type reed switch, wire length 1m		

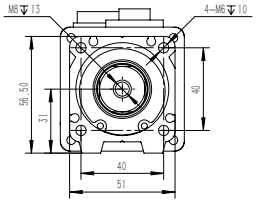


C32-D

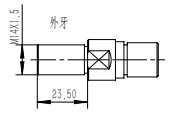


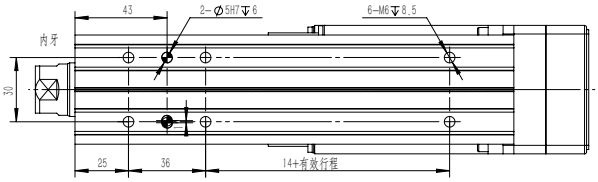
马达	A
200W/400W	64
步进57	55



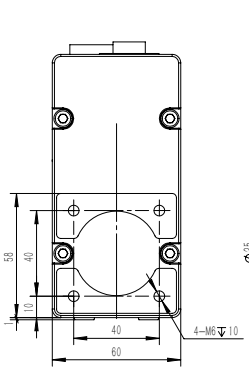


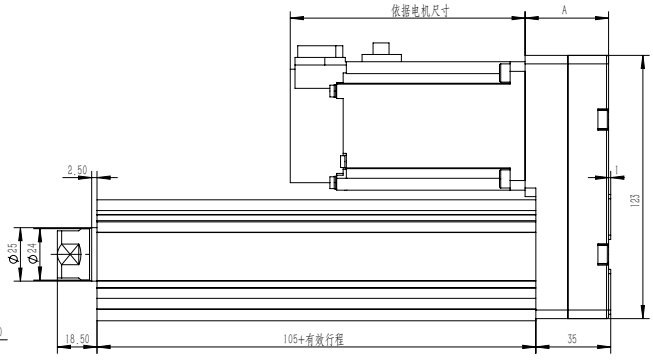
C32-P

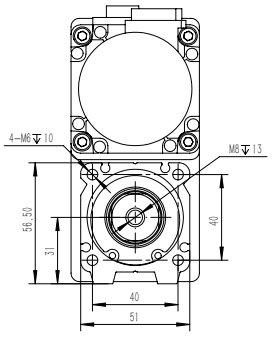




马达	A
200W/400W	39
步进57	36

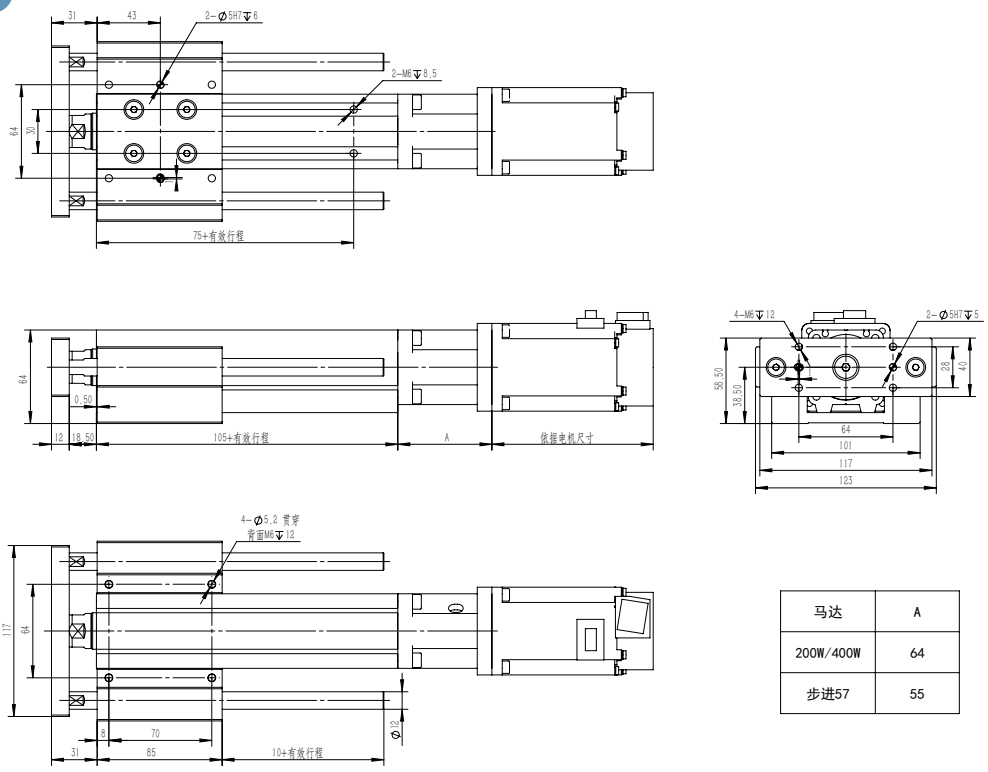






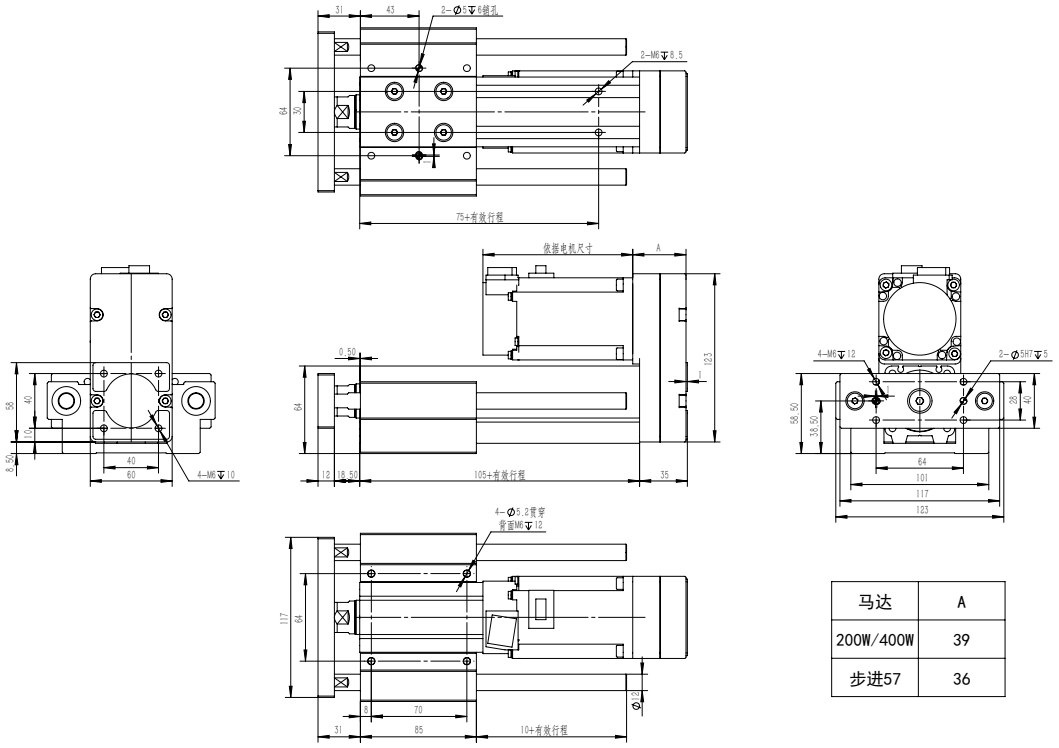
This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

C32-D-R



马达	A
200W/400W	64
步进57	55

C32-P-R



马达	A
200W/400W	39
步进57	36

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

14 >>>

YH Series high-precision electric cylinder

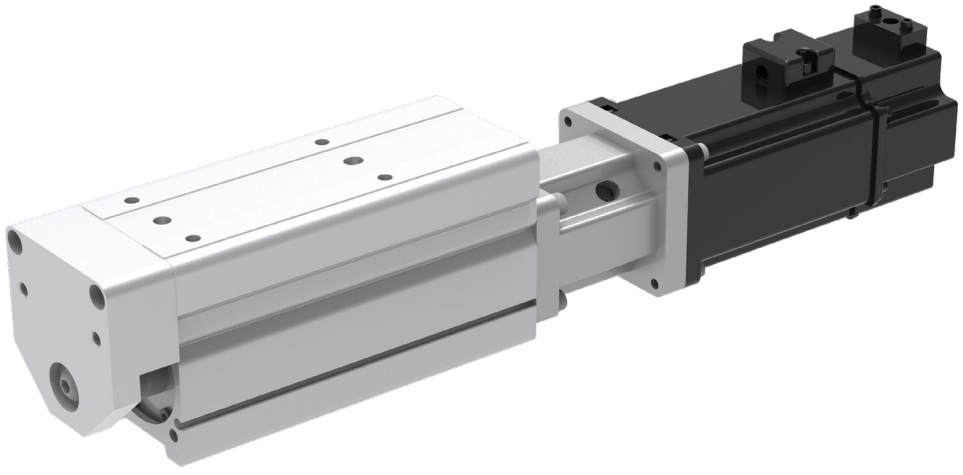
High rigidity, high strength, stable performance

1)1Idle travel below 0.1mm

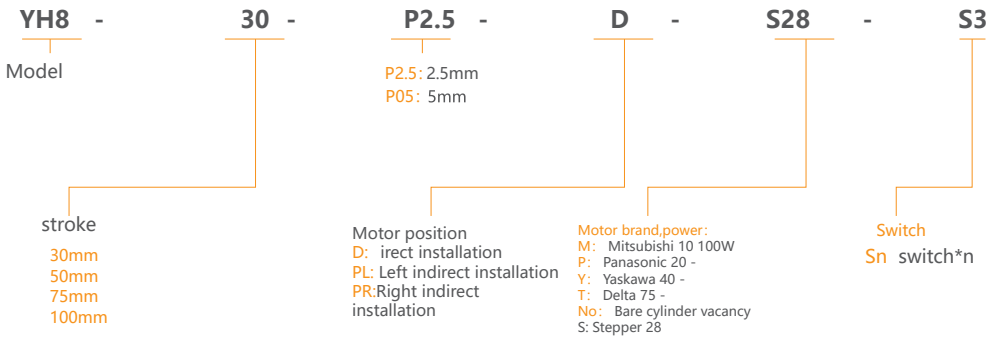
(2)Vertical transportable weight increased by more than 5 times

(3)The embedded channel track has 3 times the lateral torque
resistance of the old micro track

(4)The straightness reaches ± 0.02mm/200mm



YH8



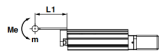
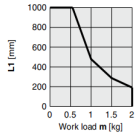
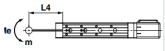
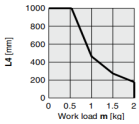
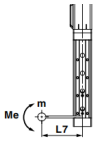
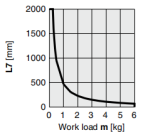
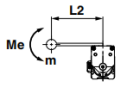
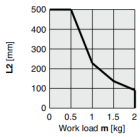
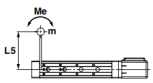
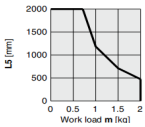
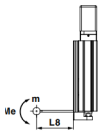
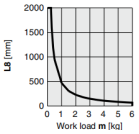
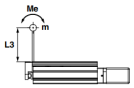
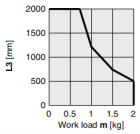
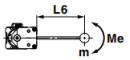
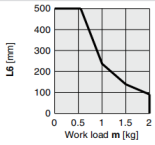
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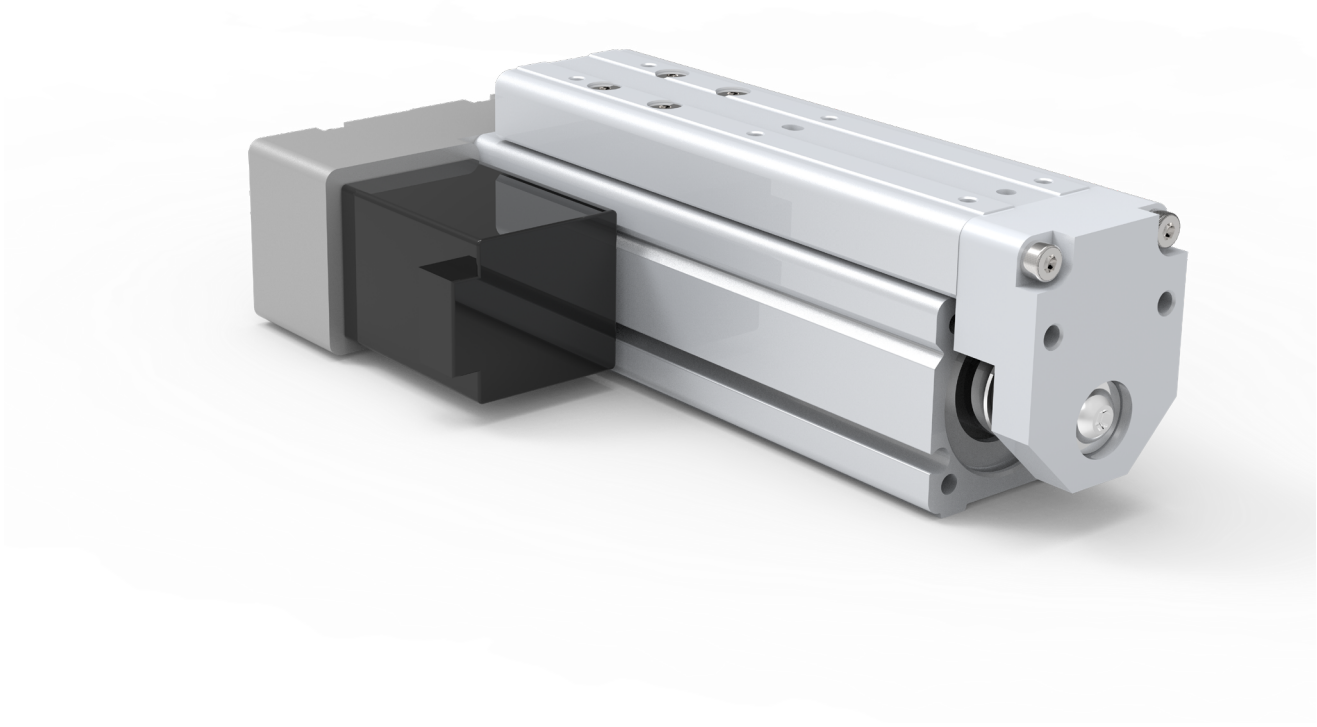
Standard motor output (W)		50w		Stepper 28	
Rated torque (Nm)		0.16		0.09	
Screw grade		C7 rolling grade (slenderness ratio 1 : 50)			
Repeatable positioning accuracy (mm)		±0.02			
Lead (mm)		2.5	5	2.5	5
Maximum thrust(N)		400	160	220	88
Max speed(mm/s)		100	250	40	100
Stroke(mm)		30 50 75 100			
Max load (kg)	Horizontal	5			
	Vertical	6			
The body weight of 0mm stroke (kg)		0.72			
Weight added per 50mm (kg)		0.34			
Magnetic switch		CS1-H-1M	The length of the contact type magnetic spring switch is 2M		

1.If you need 5 lead, please contact the merchant.
2.100 strokes, performance has declined.

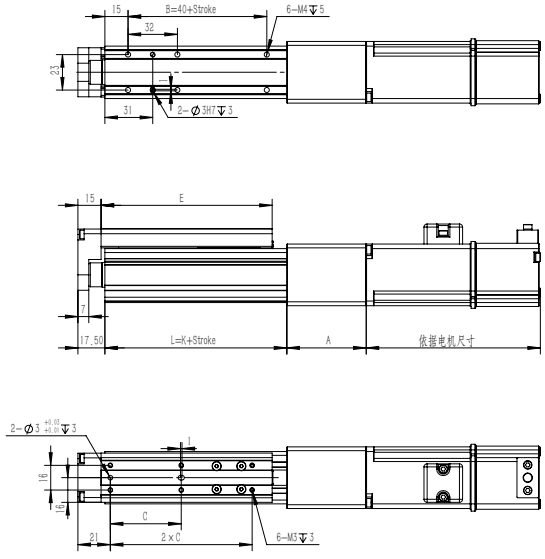
※ YH8 Performance graph

m: Load KG
Me: Torque N.m
L: Eccentricity mm

Horizontal installation	X	Side mount installation	Y	Vertical installation	Z
					
					
					



YH8-D



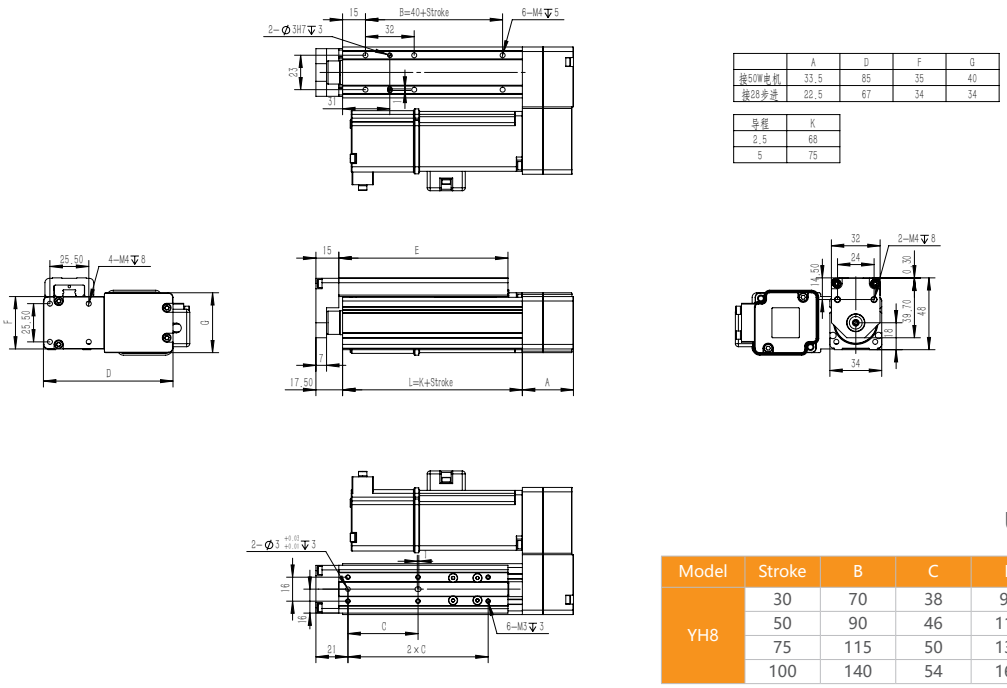
	A	D	F	G
接50W电机	51.5	40	50	20
接28步进	46.5	34	48	18

导程	K
2.5	68
5	75

Unit:mm

Model	Stroke	B	C	E	L
YH8	30	70	38	90	167
	50	90	46	111	187
	75	115	50	137	212
	100	140	54	163	237

YH8-PR



	A	D	F	G
接50W电机	33.5	85	35	40
接28步进	22.5	67	34	34

导程	K
2.5	68
5	75

Unit:mm

Model	Stroke	B	C	E	L
YH8	30	70	38	90	149
	50	90	46	111	169
	75	115	50	137	194
	100	140	54	163	219

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

YH16

YH16 - 100 - P10 - D - M10 - S3

Model: YH16

stroke: 100 — 30-250mm

P10 - P05: 5mm; P10: 10mm

Motor position: D: irect installation; PL: Left indirect installation; PR:Right indirect installation

Motor brand,power: M: Mitsubishi 10 100W; P: Panasonic 20 -; Y: Yaskawa 40 -; T: Delta 75 -; No: Bare cylinder vacancy

Switch: S3 — Sn switch*n

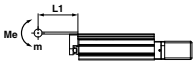
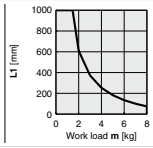
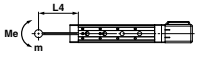
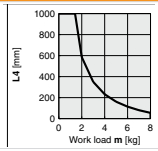
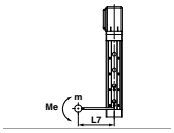
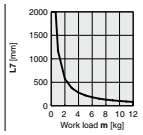
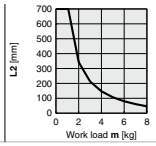
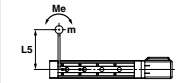
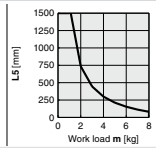
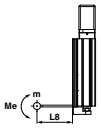
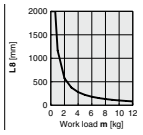
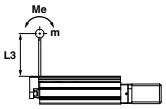
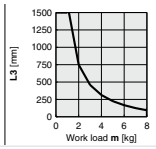
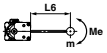
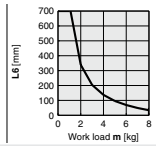
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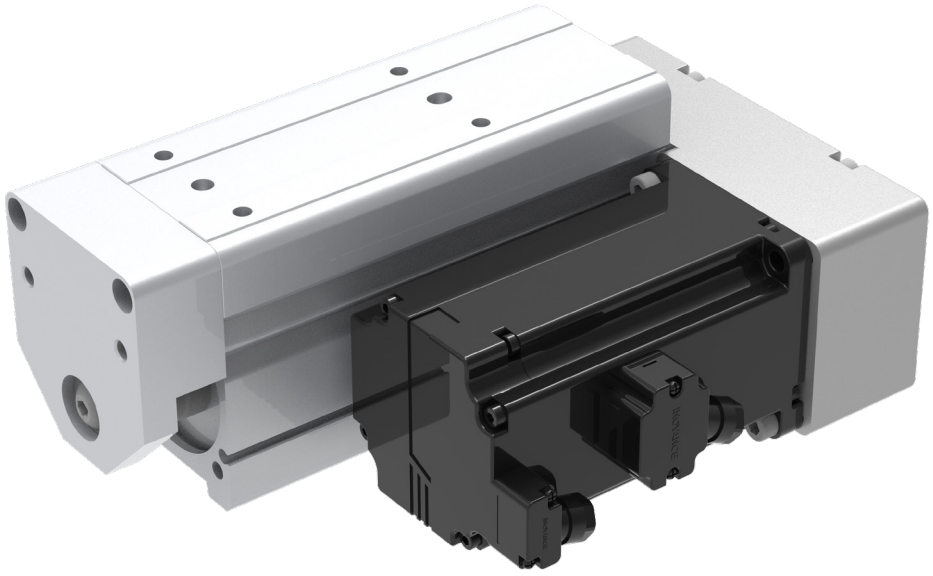
Standard motor output (W)		100W		42 Stepper	
Rated torque (Nm)		0.32		0.25	
Screw grade		C7 Rolling (Slenderness ratio 1:52.5)			
Repeatable positioning accuracy (mm)		±0.02			
Lead (mm)		5	10	5	10
Rated thrust (N)		340	170	250	125
Max speed (mm/s)		250	500	50	100
Stroke (mm)		30.50.100.150.200.250			
Max load (kg)	Horizontal	8			
	Vertical	12			
The body weight of 0mm stroke (kg)		0.8			
Weight added per 50mm (kg)		1.1			
The component weight of direct installation motor (kg)		0.18			
The component weight of indirect installation motor (kg)		0.26			
Magnetic switch		CS1-H-1M	ontact type reed switch, wire length 1m		

Note: 150 and above is an ultra-long stroke, the overall performance is reduced, if you need 20-lead products, please consult the manufacturer

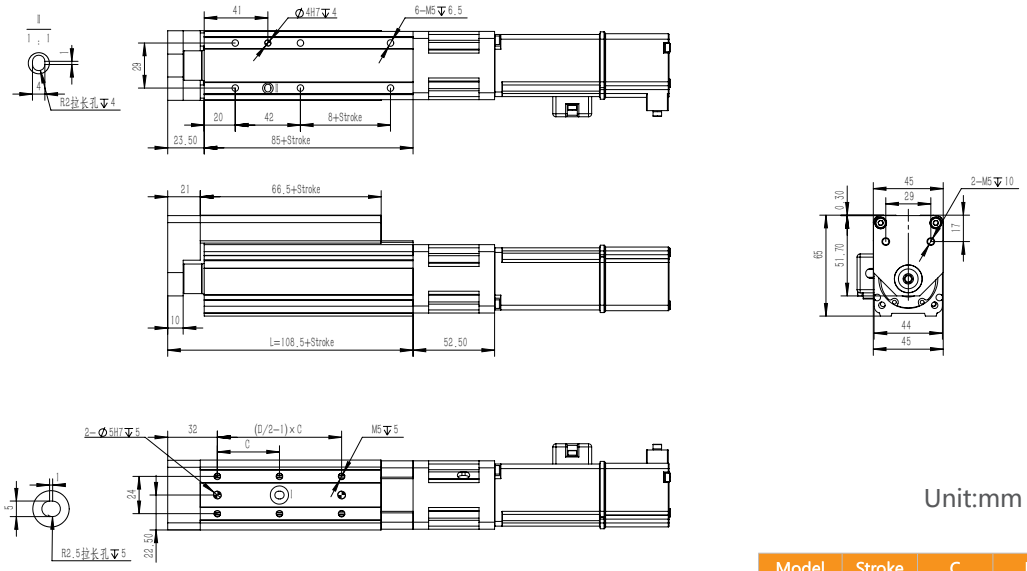
※ YH16 Performance graph

m: Load KG
Me: Torque N.m
L: Eccentricity mm

Horizontal installation	X	Side mount installation	Y	Vertical installation	Z
					
					
					



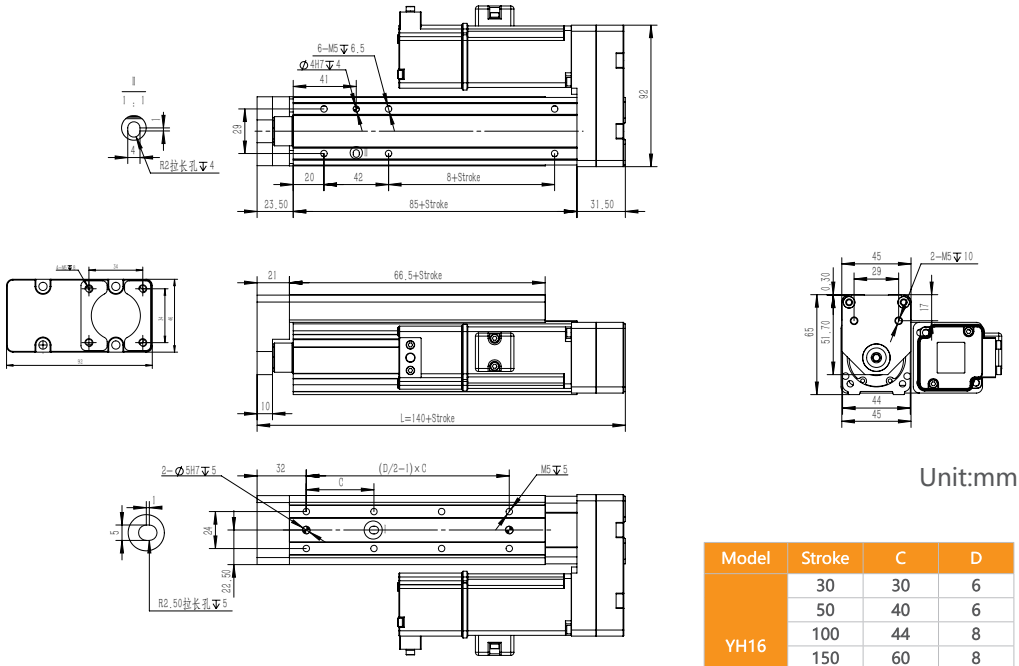
YH16-BC



Unit:mm

Model	Stroke	C	D
YH16	30	30	6
	50	40	6
	100	44	8
	150	60	8
	200	60	8
	250	60	10

YH16-PL

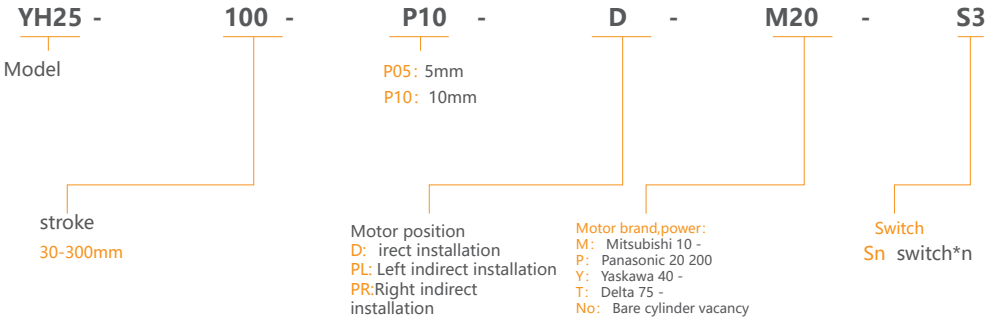


Unit:mm

Model	Stroke	C	D
YH16	30	30	6
	50	40	6
	100	44	8
	150	60	8
	200	60	8
	250	60	10

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

YH25



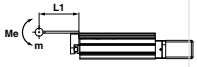
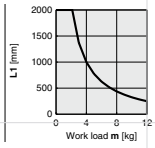
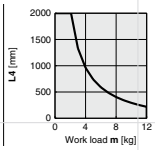
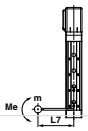
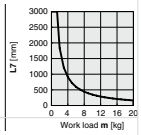
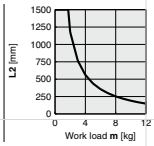
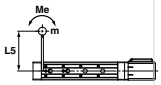
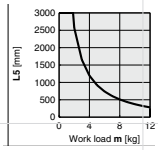
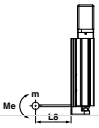
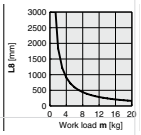
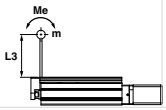
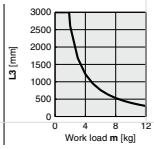
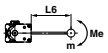
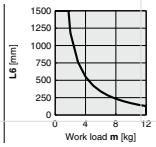
Parameters

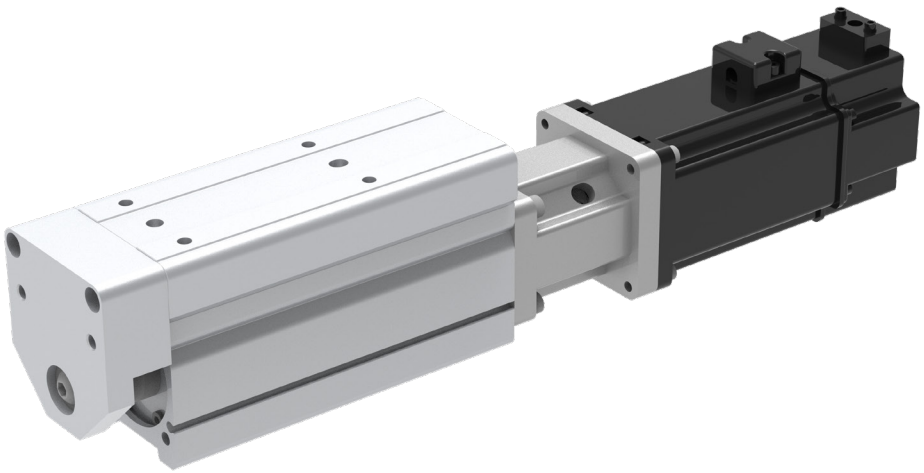
Standard motor output (W)		200W		57Stepper	
Rated torque (Nm)		0.64		0.3	
Screw grade		C7 Rolling (Slenderness ratio 1:52.5)			
Repeatable positioning accuracy (mm)		±0.02			
Lead (mm)		5	10	5	10
Rated thrust (N)		690	350	300	150
Max speed (mm/s)		250	500	50	200
Stroke (mm)		30.50.100.150.180.200.250.300			
Max load (kg)	Horizontal	12			
	Vertical	20			
The body weight of 0mm stroke (kg)		1.5			
Weight added per 50mm (kg)		2			
The component weight of direct installation motor (kg)		0.26			
The component weight of indirect installation motor (kg)		0.43			
Magnetic switch		CS1-H-1M		Contact type reed switch, wire length 1m	

Note: 150 and above is an ultra-long stroke, the overall performance is reduced, if you need 20-lead products, please consult the manufacturer

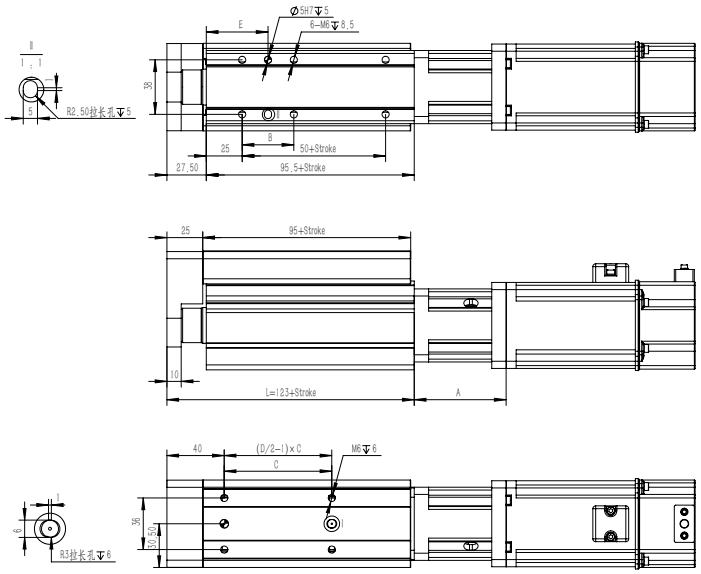
※ YH25 Performance graph

m: Load KG
Me: Torque N.m
L: Eccentricity mm

Horizontal installation	X	Side mount installation	Y	Vertical installation	Z
					
					
					



YH25-BC

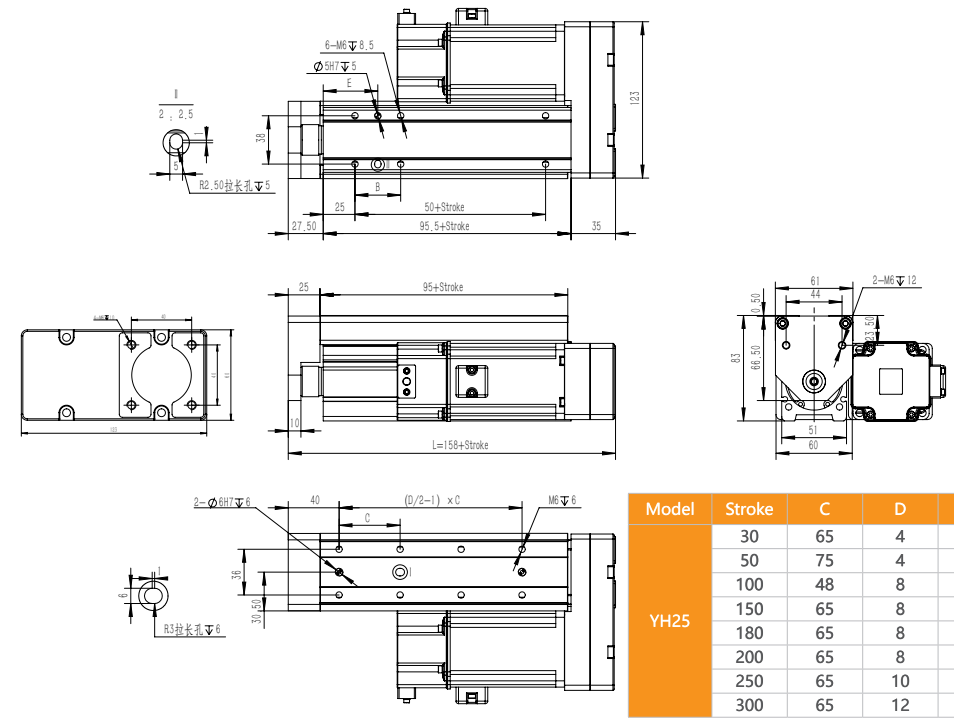


马达	A
200W	64
步进57	55

Model	Stroke	C	D	B	E
YH25	30	65	4	36	43
	50	75	4	36	43
	100	48	8	36	43
	150	65	8	53	51.5
	180	65	8	53	51.5
	200	65	8	53	51.5
	250	65	10	53	51.5
	300	65	12	53	51.5

Unit:mm

YH25-PL



Model	Stroke	C	D	B	E
YH25	30	65	4	36	43
	50	75	4	36	43
	100	48	8	36	43
	150	65	8	53	51.5
	180	65	8	53	51.5
	200	65	8	53	51.5
	250	65	10	53	51.5
	300	65	12	53	51.5

Unit:mm

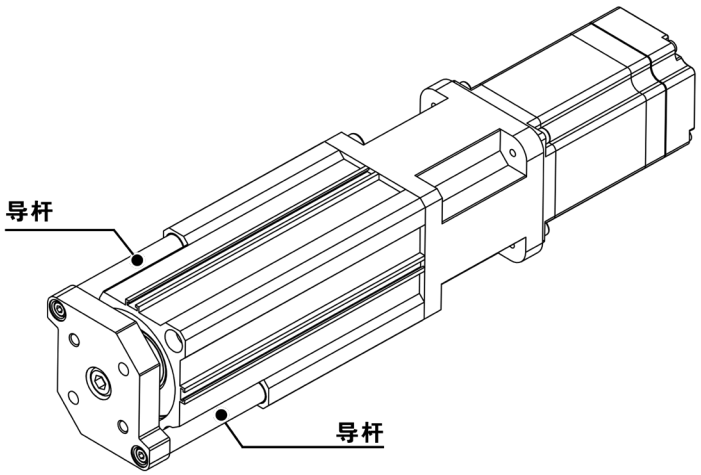
This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

15 >>>

ECQ series guide rod embedded electric cylinder

Environment	Transmission	Model	Motor size	Width(mm)	Repeatability (mm)	Screw specifications		Maximum transportable weight (kg)	Max speed (mm/s)
						External diameter (mm)	Lead (mm)		
General environment	Ballscrew	ECQ32	100W □	45	±0.02	12	05	20	250
							10		500
		ECQ40	400W □	53.3	±0.02	12	05	40	250
							10		500
		ECQ50	400W □	64	±0.02	16	05	70	250
							10		500

※The maximum speed here is the corresponding speed when the servo motor rotates at 3000RPM



- **Space saving:**
  Adopting a built-in guide rod, the cylinder body is fixed to the front and rear covers with C-shaped retaining rings, and the piston and piston rod are riveted together in a compact and reliable structure, which can effectively save installation space by 40%.

- **Strong anti torsion ability:**
  Double guide rod anti rotation structure, with good bending and torque resistance performance, can withstand large motion and lateral loads, and has a non rotation accuracy of ± 0.15 ° .

- **Implement JIS standards with double guide rod structure**

- **Good wear resistance and durability:**
  Honing treatment of cylinder inner diameter

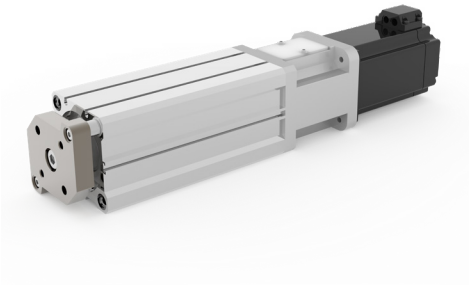
- **Good guidance performance:** **Extended front cover guide distance**

- **Easy installation of sensors:** There are sensor slots around the cylinder body

ECQ32

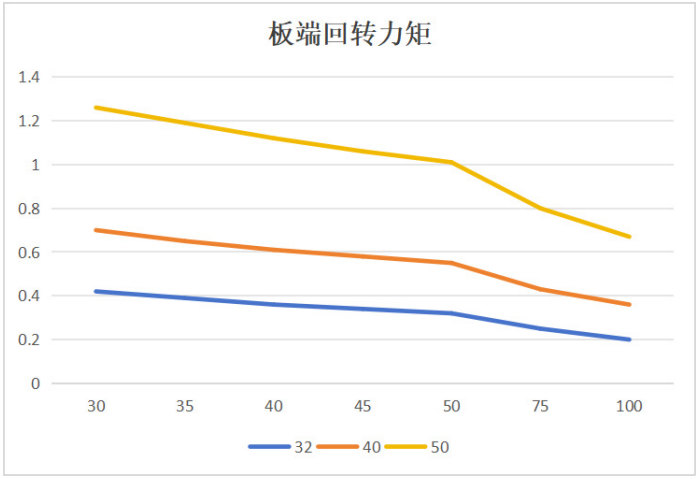
ECQ32 -	30 -	P10 -	D -	T -	10 -	-	S3
Model	Stroke	Lead	Motor installation method	Motor band	Motor	Brake	Switches
	30-100m	P05：5mm	D:Direct mount	T:Delta	10:100W	□：Without brakes	Sn:N switches
		P10：10mm	P: Indirect installation	M:Mitsubishi	S42(split type)	B:Equipped with brakes	
				Y:Yaskawa	S42-485ntegrated Drive Control System		
				S:Stepper 42	S42-PLSIntegrated Drive Control System		

Parameter

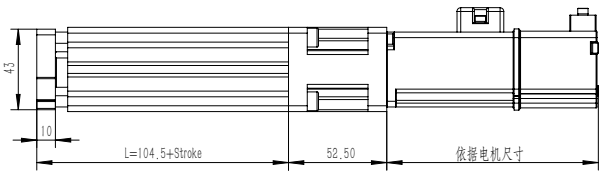


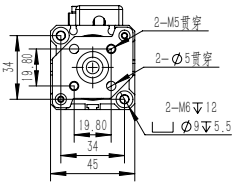
Specification	ECQ32	
Repeatability mm	±0.02	
Non rotational accuracy °	±0.15	
Screw lead mm	5	10
Maximum speed mm/s	100	200
Output N	200	125
Vertical bearing KG	20	
Max stroke mm	100	
Specification of drive-control integrated motor (without brake)	S42-485/S42-PLS	
Specification of drive-control integrated motor (with brake)	S42B-485/S42B-PLS	
Rated voltage V	DC24	
Motor torque N.m	0.3	
Communication methods	PLS（pulse） 485(I/O.485)	

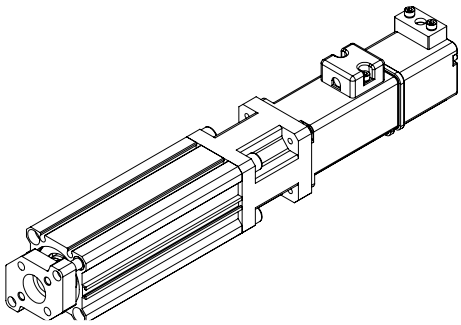
Plate edge rotation torque



ECQ32-D

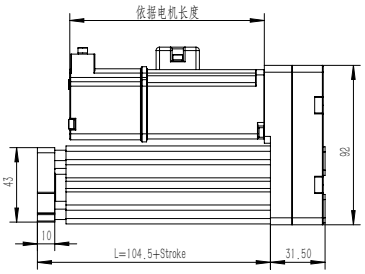


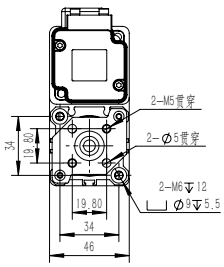


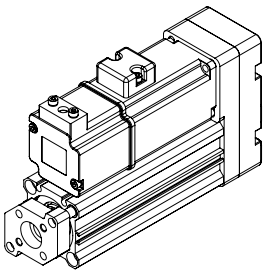


This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

ECQ32-P





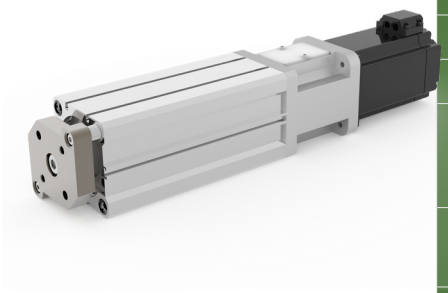


This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

ECQ40

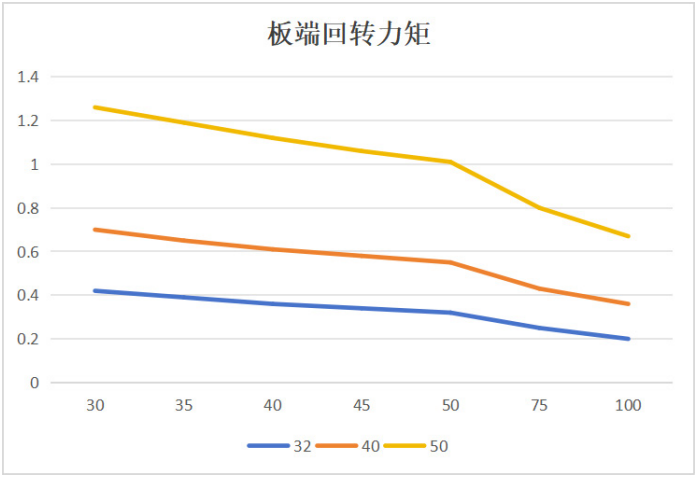
ECQ40 -	30 -	P10	-	D	-	T	-	10	-	-	S3
Model	Stroke	Lead	Motor installation method		Motor band		Motor		Brake		Switches
	30-100m	P05：5mm	D:Direct mount		T:Delta		40:100W		□：Without brakes		Sn:N switches
		P10：10mm	P: Indirect installation		M:Mitsubishi		S57(split type)		B:Equipped with brakes		
					Y:Yaskawa		S57-485ntegrated Drive Control System				
					S:Stepper 57		S57-PLSIntegrated Drive Control System				

Parameter

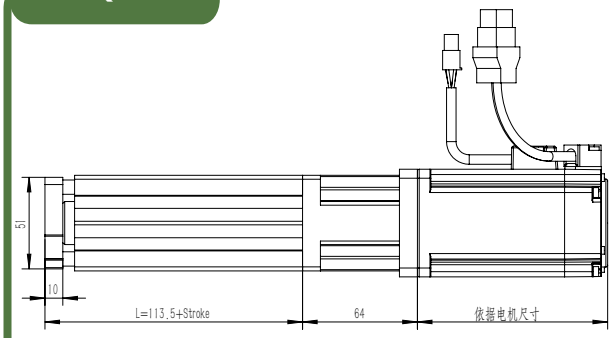


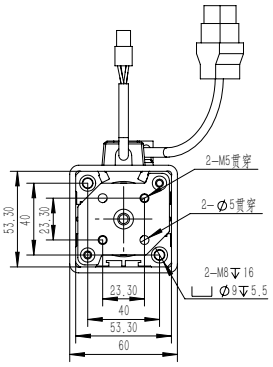
Specification	ECQ40	
Repeatability mm	±0.02	
Non rotational accuracy °	±0.15	
Screw lead mm	5	10
Maximum speed mm/s	100	200
Output N	240	150
Vertical bearing KG	24	
Max stroke mm	100	
Specification of drive-control integrated motor (without brake)	S57-485/S57-PLS	
Specification of drive-control integrated motor (with brake)	S57B-485/S57B-PLS	
Rated voltage V	DC24	
Motor torque N.m	0.7	
Communication methods	PLS（pulse） 485(I/O.485)	

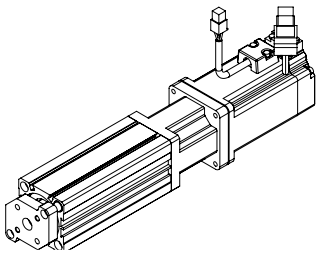
Plate edge rotation torque



ECQ40-D

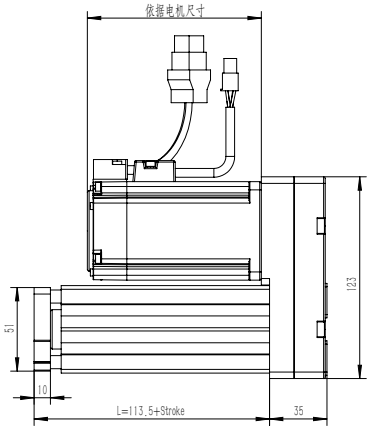


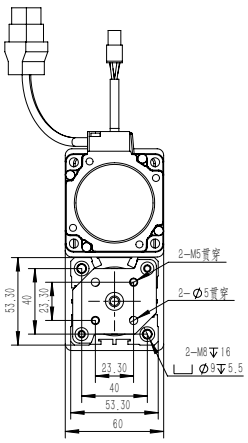


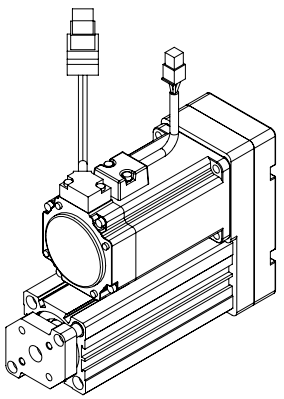


This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

ECQ40-P





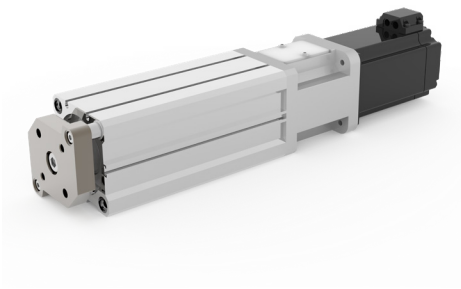


This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

ECQ50

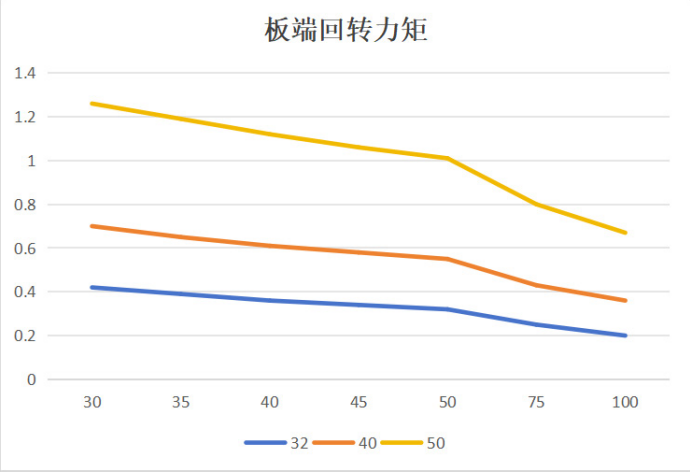
ECQ50 -	30 -	P10	- D	- T	- 40	-	- S3
Model	Stroke	Lead	Motor installation method	Motor band	Motor	Brake	Switches
	30-100m	P05：5mm	D:Direct mount	T:Delta	40:100W	□：Without brakes	Sn:N switches
		P10：10mm	P: Indirect installation	M:Mitsubishi	S57(split type)	B:Equipped with brakes	
				Y:Yaskawa	S57-485ntegrated Drive Control System		
				S:Stepper 57	S57-PLSIntegrated Drive Control System		

Parameter

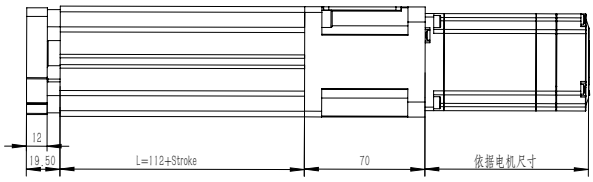


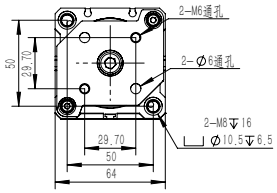
Specification	ECQ50	
Repeatability mm	±0.02	
Non rotational accuracy °	±0.15	
Screw lead mm	5	10
Maximum speed mm/s	100	200
Output N	270	150
Vertical bearing KG	27	
Max stroke mm	100	
Specification of drive-control integrated motor (without brake)	S57-485/S57-PLS	
Specification of drive-control integrated motor (with brake)	S57B-485/S57B-PLS	
Rated voltage V	DC24	
Motor torque N.m	0.7	
Communication methods	PLS（pulse） 485(I/O.485)	

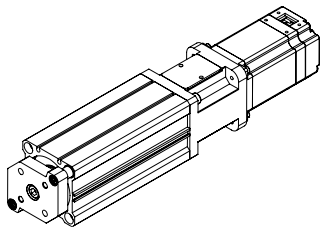
Plate edge rotation torque



ECQ50-D

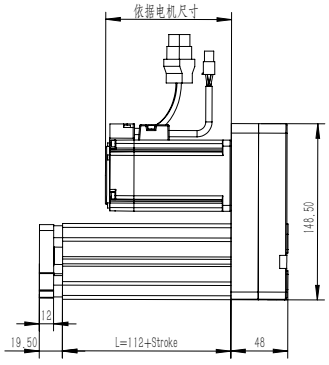


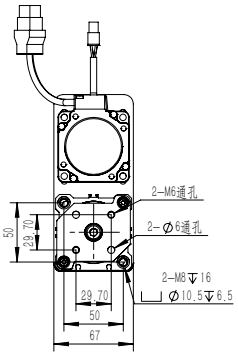


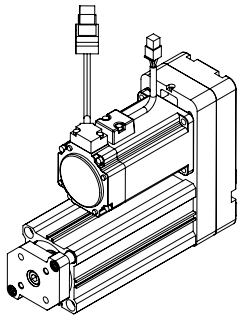


This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

ECQ50-P







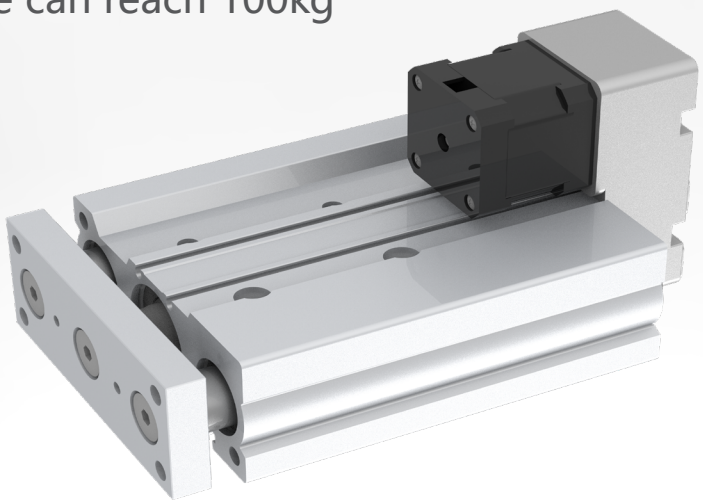
This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

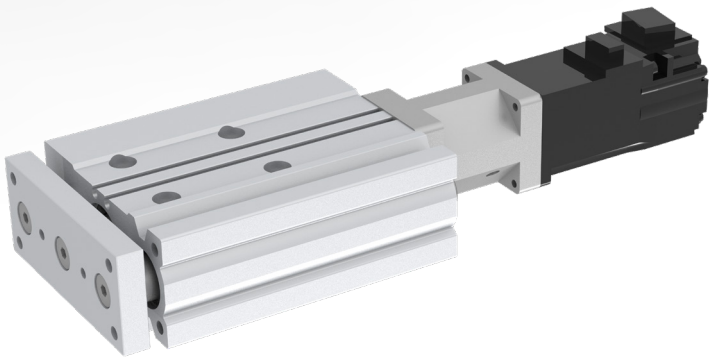
16 »»

EG Series high rigidity guide rod type electric cylinder

High rigidity high precision good stability

- The precision of the guide rod guiding straight
- line reaches ± 0.02mm
- The anti rotation angle can reach ± 0.1 °
- The maximum lateral resistance can reach 100kg





EG16

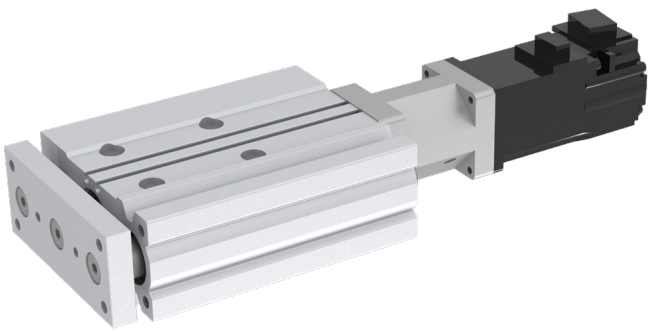
EG16 - 50 - P2.5 - D - S - 28 - S 1

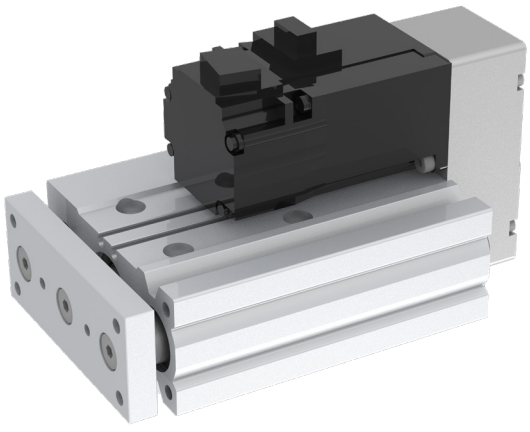
Model	Stroke	Lead	Motor installation	Motor brand	Motor power	Magnetic reed switch
	30mm	P2.5：2.5mm	D：Direct installation	S: Stepper 28		Sn:Switch*n
	50mm	P05：5mm	P：Indirect installation			
	100mm					

Parameters

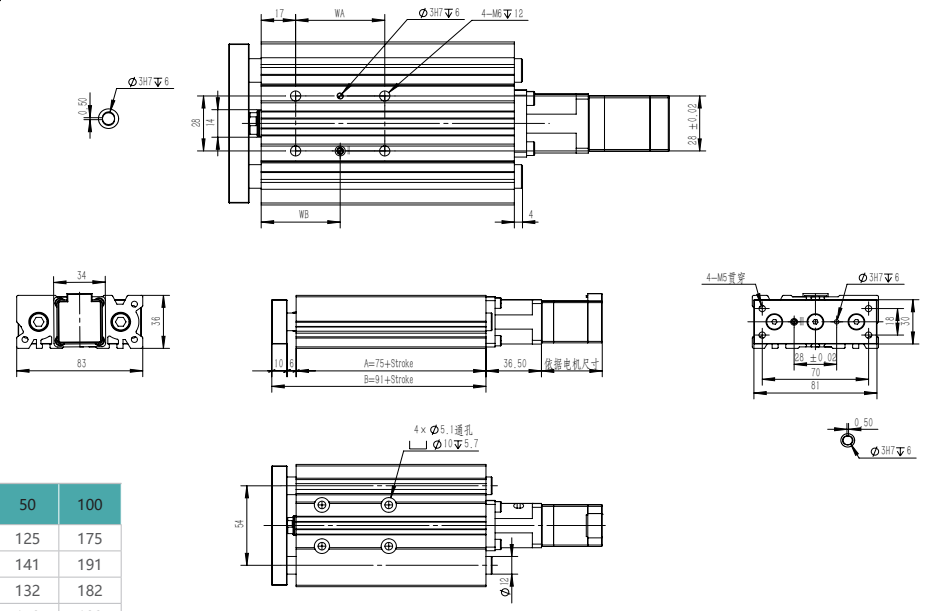
Standard motor output (W)		Stepper 28	
Rated torque (Nm)		0.09	
Screw grade		C7 Rolling 082.5 (Slenderness ratio 1:50)	
Repeatable positioning accuracy (mm)		±0.02	
Screw specification		082.5	805
Max thrust (N)		220	88
Max speed (mm/s)		40	100
Stroke (mm)		30.50.100	
Max load (KG	Horizontal	5	
	Vertical	5	
Piston rod rotation angle		±0.7 degree	
The body weight of 0mm stroke (KG)		1.2	
Weight added per 10mm (KG)		0.09	
The component weight of direct installation motor (KG)		0.08	
The component weight of indirect installation motor (KG)		0.15	
Magnetic switc		CS1-H-1M	Contact type reed switch, wire length 1m

Note: 05 lead is 7mm longer than 2.5 lead





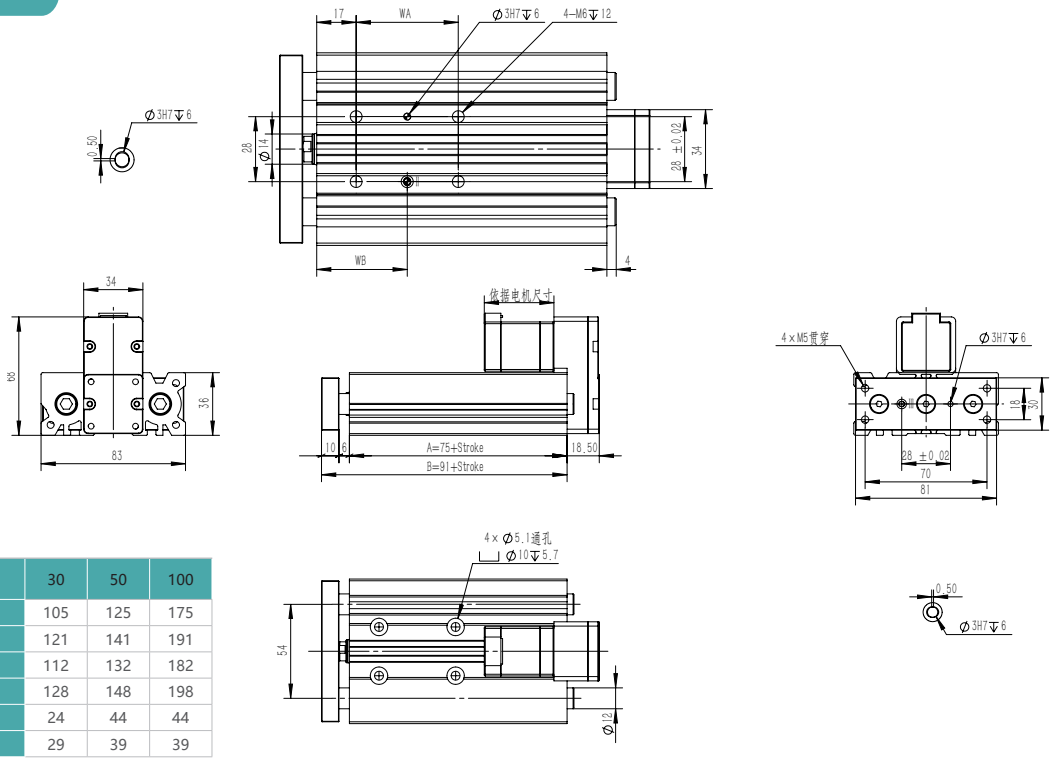
EG16-D



	Stroke	30	50	100
2.5	A	105	125	175
2.5	B	121	141	191
05	A	112	132	182
05	B	128	148	198
	WA	24	44	44
	WB	29	39	39

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

EG16-P



	Stroke	30	50	100
2.5	A	105	125	175
2.5	B	121	141	191
05	A	112	132	182
05	B	128	148	198
	WA	24	44	44
	WB	29	39	39

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

EG20

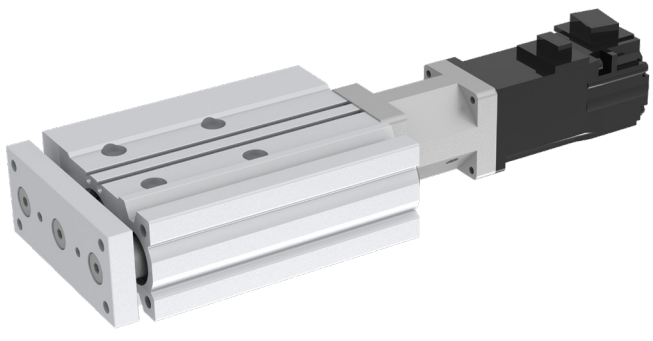
EG20 - 50 - P2.5 - D - S - 28 - S1

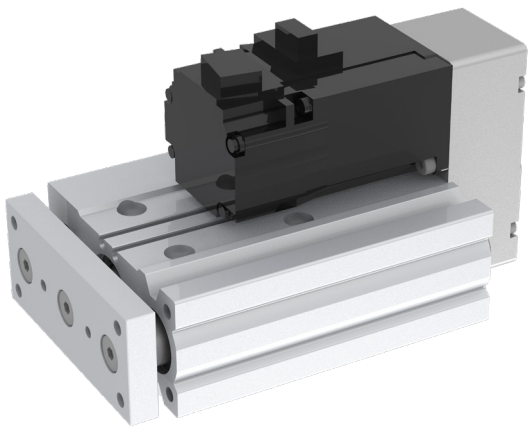
Model	Stroke	Lead	Motor installation	Motor brand	Motor power	Magnetic reed switch
	30mm	P2.5: 2.5mm	D: Direct installation	M:Mitsubish S:Stepper 28		Sn:Switch*n
	50mm	P05: 5mm	P: Indirect installation	P:Panasonic		
	100mm			Y:Yaskawa		
				T:Delta		

Parameters

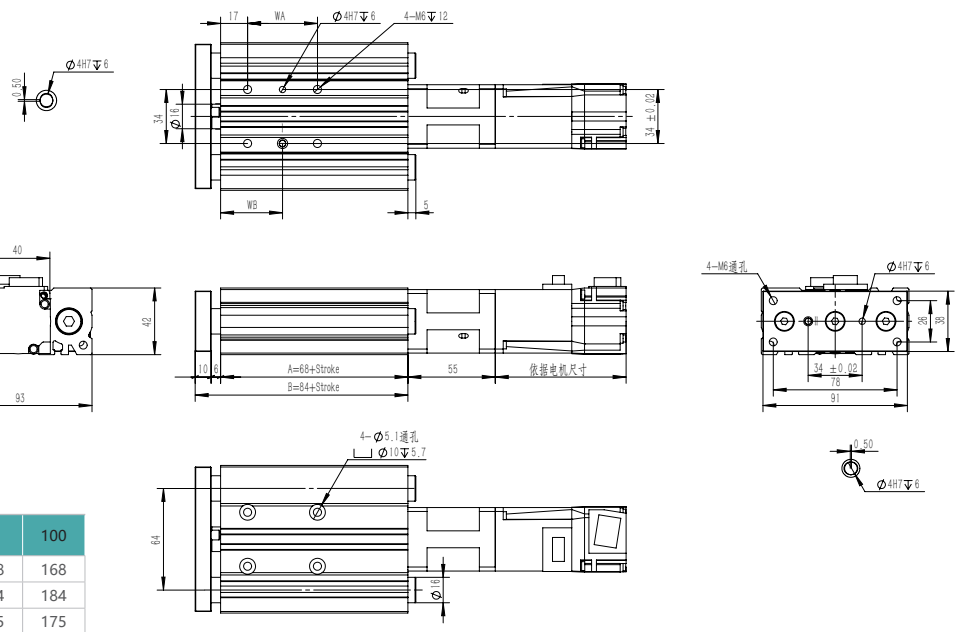
Standard motor output (W)		50W		Stepper 28	
Rated torque (Nm)		0.16		0.09	
Screw grade		C7Rolling 082.5 (Slenderness ratio 1:50)			
Repeatable positioning accuracy (mm)		±0.02			
Screw specification		82.5/805			
Max thrust (N)		400	160	220	88
Max speed (mm/s)		100	250	40	100
Stroke (mm)		30.50.100			
Max load (KG	Horizontal	8			
	Vertical	8			
Piston rod rotation angle		±0.7 degree			
The body weight of 0mm stroke (KG)		1.9			
Weight added per 10mm (KG)		0.13			
The component weight of direct installation motor (KG)		0.14			
The component weight of indirect installation motor (KG)		0.18			
Magnetic switc		CS1-H-1M		Contact type reed switch, wire length 1	

1. Motor turning point, it is recommended to use it in conjunction with a stepper motor
2.When used in conjunction with servo, please pay attention to the installation sequence of sensors, motors, and cylinder blocks (cylinder block installation requires the use of threaded holes on the installation surface)





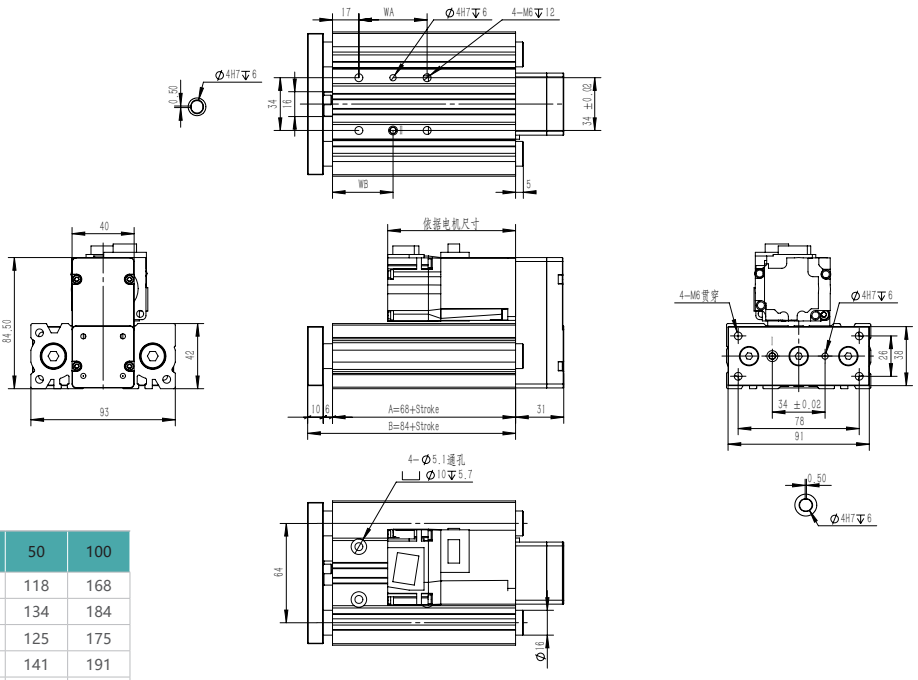
EG20-D



	Stroke	30	50	100
2.5	A	98	118	168
2.5	B	114	134	184
05	A	105	125	175
05	B	121	141	191
	WA	24	44	44
	WB	29	39	39

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

EG20-P



	Stroke	30	50	100
2.5	A	98	118	168
2.5	B	114	134	184
05	A	105	125	175
05	B	121	141	191
	WA	24	44	44
	WB	29	39	39

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

EG25

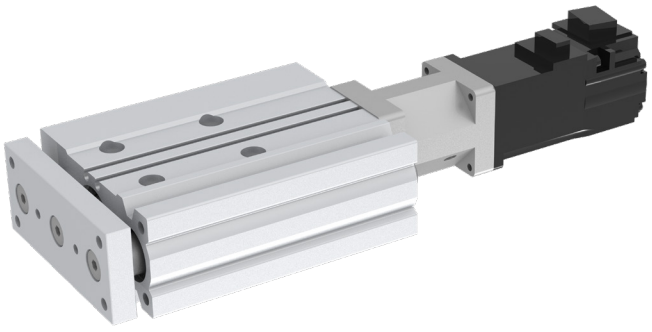
EG25 - 50 - P10 - D - S - 42 - S1

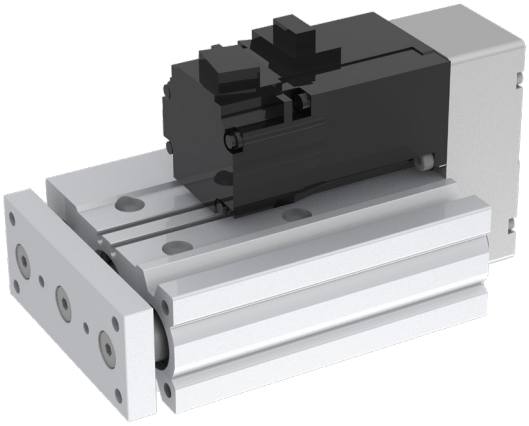
Model	Stroke	Lead	Motor installation	Motor brand	Motor power	Magnetic reed switch
	30mm	P05:5mm	D: Direct installation	M:Mitsubishi S:stepper42		Sn:Switch*n
	50mm	P10:10mm	P: Indirect installation	P:Panasonic		
	100mm			Y:Yaskawa		
	150mm			T:Delta		

Parameters

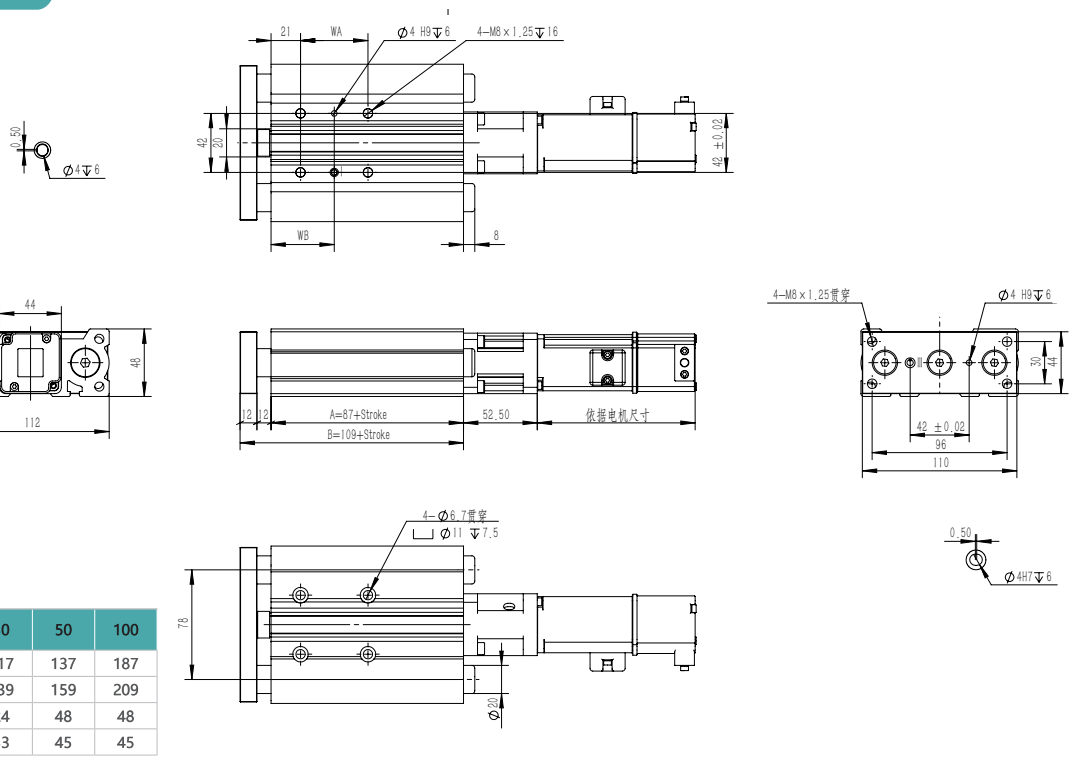
Standard motor output (W)		100W		Stepper 42	
Rated torque (Nm)		0.32		0.25	
Screw grad		C7Rolling1205/1210 (Slenderness ratio1:52.5)			
Repeatable positioning accuracy (mm)		±0.02			
Screw specification		1210	1205	1210	1205
Max thrust (N)		170	340	125	250
Max speed (mm/s)		500	250	100	50
Stroke (mm)		30.50.100.150			
Max load (KG)	Horizontal	20			
	Vertical	24			
Max radial load as a barrier cylinder (KG)		75			
Piston rod rotation angle		±0.7degree			
The body weight of 0mm stroke (KG)		2.1			
Weight added per 10mm (KG)		0.2			
The component weight of direct installation motor (KG)		0.13			
he component weight of indirect installation motor (KG		0.2			
Magnetic switch		CS1-H-1M		Contact type reed switch, wire length 1m	

1. Motor turning point, it is recommended to use it in conjunction with a stepper motor
2.When used in conjunction with servo, please pay attention to the installation sequence of sensors, motors, and cylinder blocks (cylinder block installation requires the use of threaded holes on the installation surface)





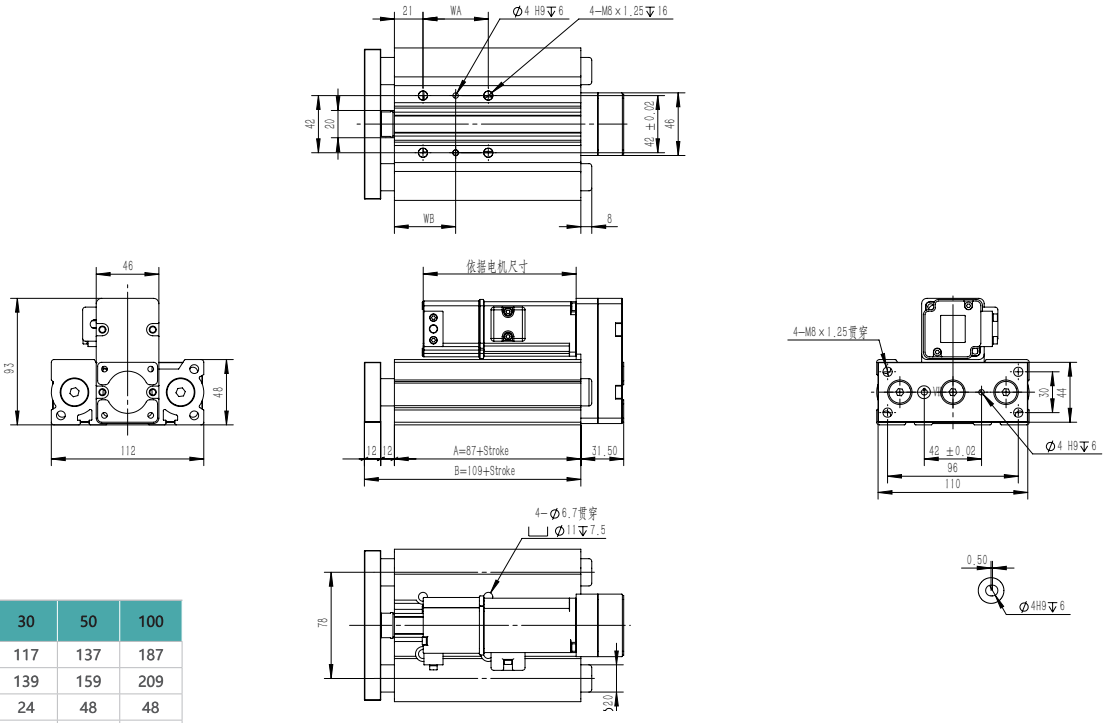
EG25-D



Stroke	30	50	100
A	117	137	187
B	139	159	209
WA	24	48	48
WB	33	45	45

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

EG25-P



Stroke	30	50	100
A	117	137	187
B	139	159	209
WA	24	48	48
WB	33	45	45

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

EG32

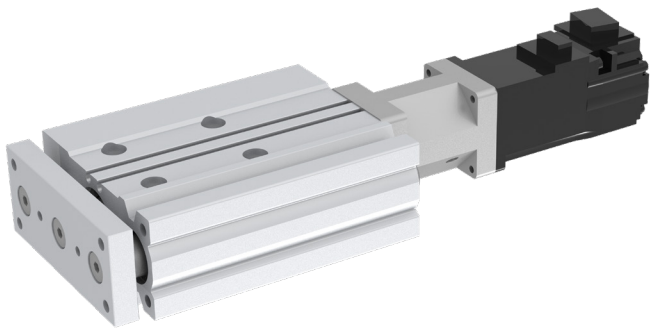
EG32 - 50 - P10 - D - S - 400W - S1

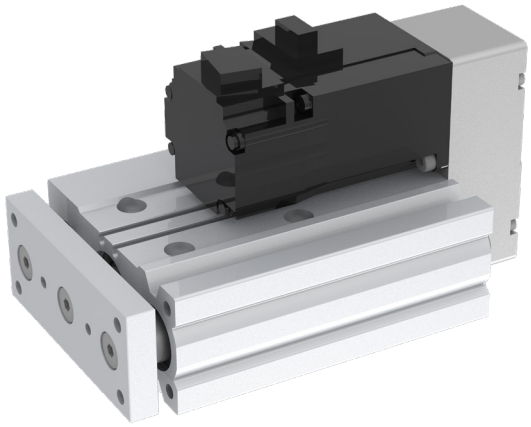
Model	Stroke	Lead	Motor installation	Motor brand	Motor power	Magnetic reed switch
	30mm	P05:5mm	D: Direct installation	M:Mitsubishi S:stepper57		Sn:Switch*n
	50mm	P10:10mm	P: Indirect installation	P:Panasonic		
	100mm			Y:Yaskawa		
	150mm			T:Delta		

Parameters

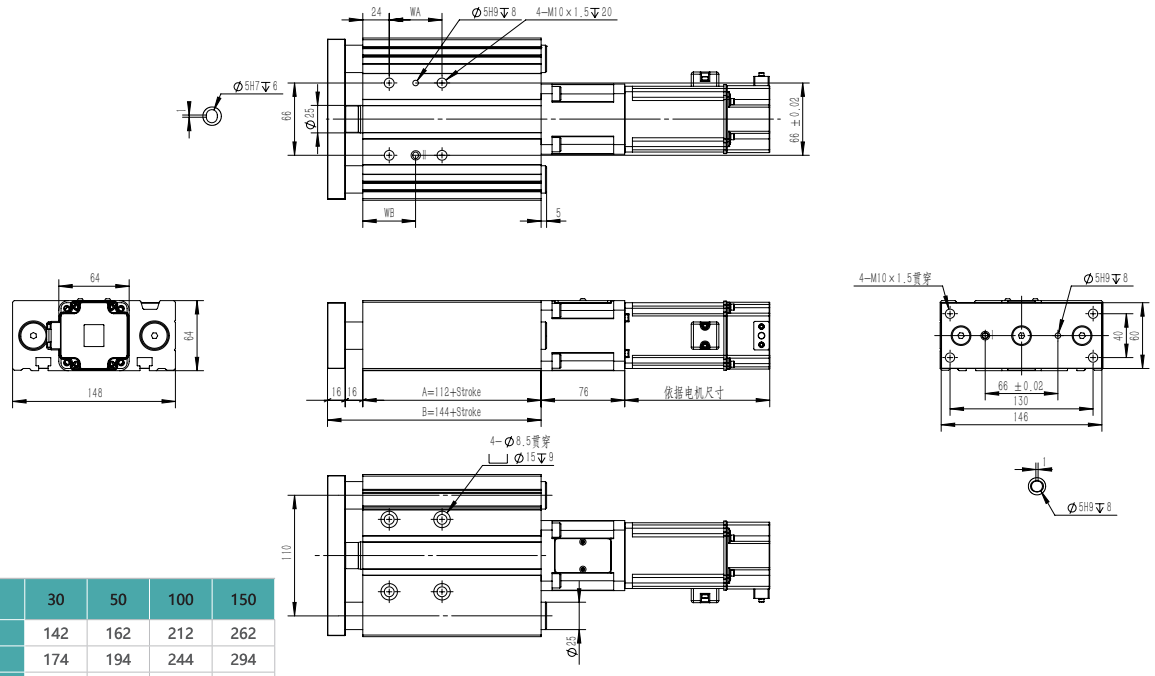
Standard motor output (W)		400W		Stepper 57	
Rated torque (Nm)		1.32		0.3	
Screw grad		C7 rolling grade 1605/1610 (slender ratio 1:62.5)			
Repeatable positioning accuracy (mm)		±0.02			
Screw specification		1605	1610	1605	1610
Max thrust (N)		1280	690	300	150
Max speed (mm/s)		250	500	100	200
Stroke (mm)		30.50.100.150			
Max load (KG)	Horizontal	45			
	Vertical	27			
Max radial load as a barrier cylinder (KG)		100			
Piston rod rotation angle		±0.7 degree			
The body weight of 0mm stroke (KG)		6.1			
Weight added per 10mm (KG)		0.3			
The component weight of direct installation motor (KG)		0.3			
he component weight of indirect installation motor (KG		0.6			
Magnetic switch		CS1-D-1M		Contact type reed switch, wire length 1m	

1. Motor turning point, it is recommended to use it in conjunction with a stepper motor
2.When used in conjunction with servo, please pay attention to the installation sequence of sensors, motors, and cylinder blocks (cylinder block installation requires the use of threaded holes on the installation surface)





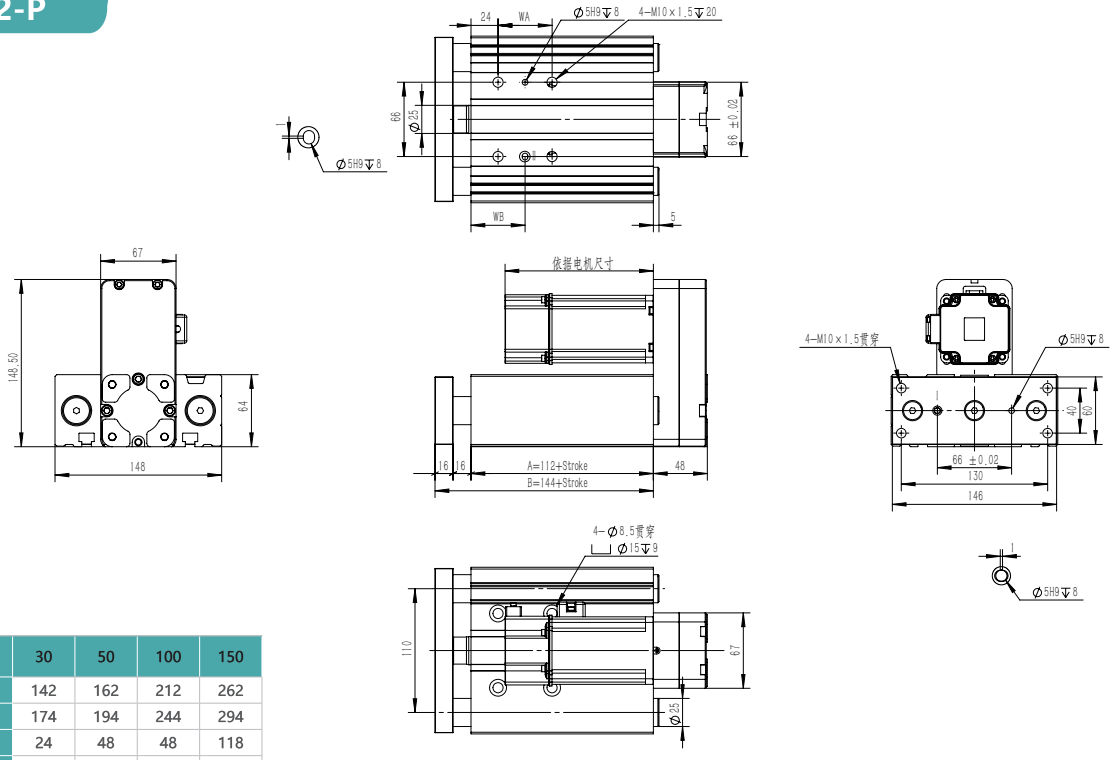
EG32-D



Stroke	30	50	100	150
A	142	162	212	262
B	174	194	244	294
WA	24	48	48	118
WB	36	48	48	83

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

EG32-P



Stroke	30	50	100	150
A	142	162	212	262
B	174	194	244	294
WA	24	48	48	118
WB	36	48	48	83

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

EG40

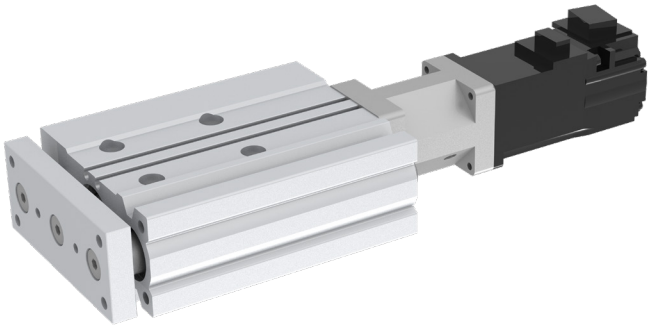
EG40 - 50 - P10 - D - T - 400W - S1

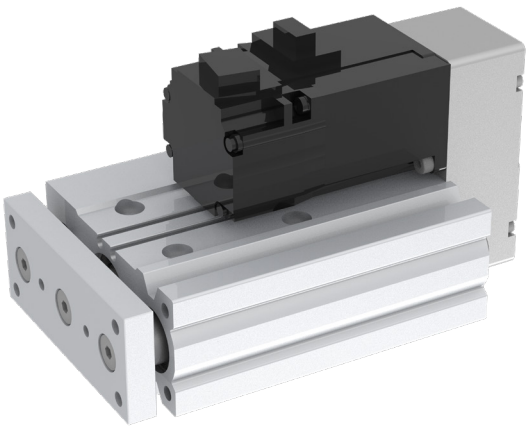
Model	Stroke	Lead	Motor installation	Motor brand	Motor power	Magnetic reed switch
	30mm	P05:5mm	D: Direct installation	M:Mitsubishi S:stepper57		Sn:Switch*n
	50mm	P10:10mm	P: Indirect installation	P:Panasonic		
	100mm			Y:Yaskawa		
	150mm			T:Delta		

Parameters

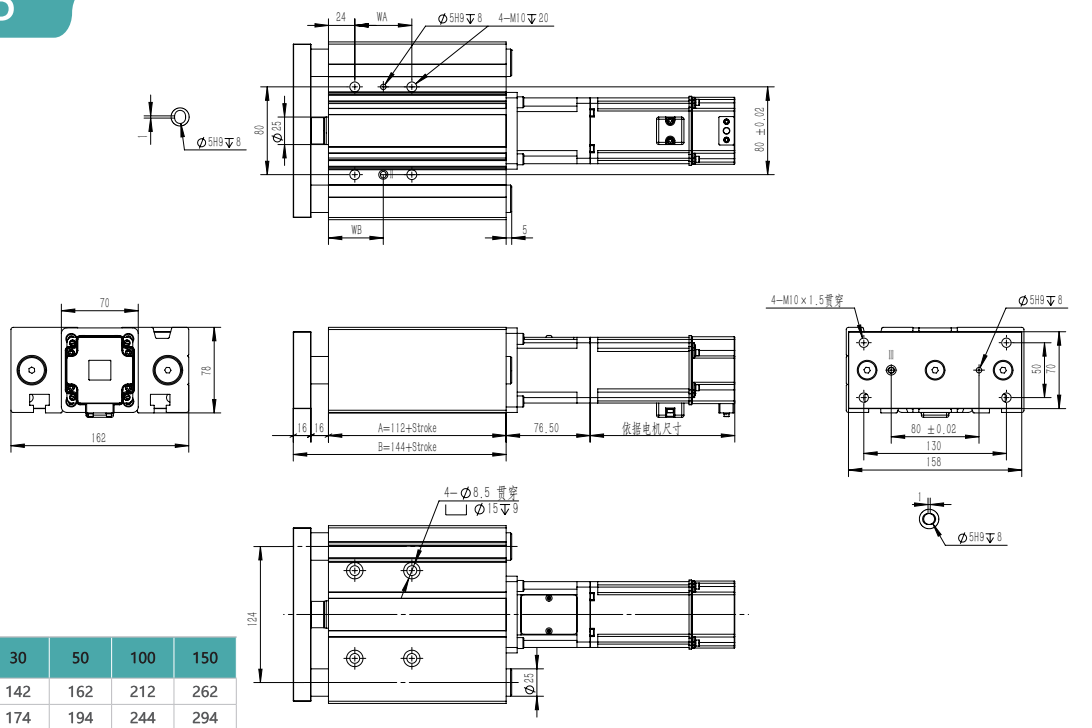
Standard motor output (W)		400W		Stepper 57	
Rated torque (Nm)		1.32		0.3	
Screw grad		C7 Rolling 1605/1610 (Slenderness ratio1:62.5)			
Repeatable positioning accuracy (mm)		±0.02			
Screw specification		1605	1610	1605	1610
Max thrust (N)		1280	690	300	150
Max speed (mm/s)		250	500	100	200
Stroke (mm)		30.50.100.150			
Max load (KG)	Horizontal	60			
	Vertical	27			
Max radial load as a barrier cylinder (KG)		150			
Piston rod rotation angle		±0.7 degree			
The body weight of 0mm stroke (KG)		7.3			
Weight added per 10mm (KG)		0.4			
The component weight of direct installation motor (KG)		0.4			
he component weight of indirect installation motor (KG		0.6			
Magnetic switch		CS1-D-1M		Contact type reed switch, wire length 1m	

1. Motor turning point, it is recommended to use it in conjunction with a stepper motor
2.When used in conjunction with servo, please pay attention to the installation sequence of sensors, motors, and cylinder blocks (cylinder block installation requires the use of threaded holes on the installation surface)





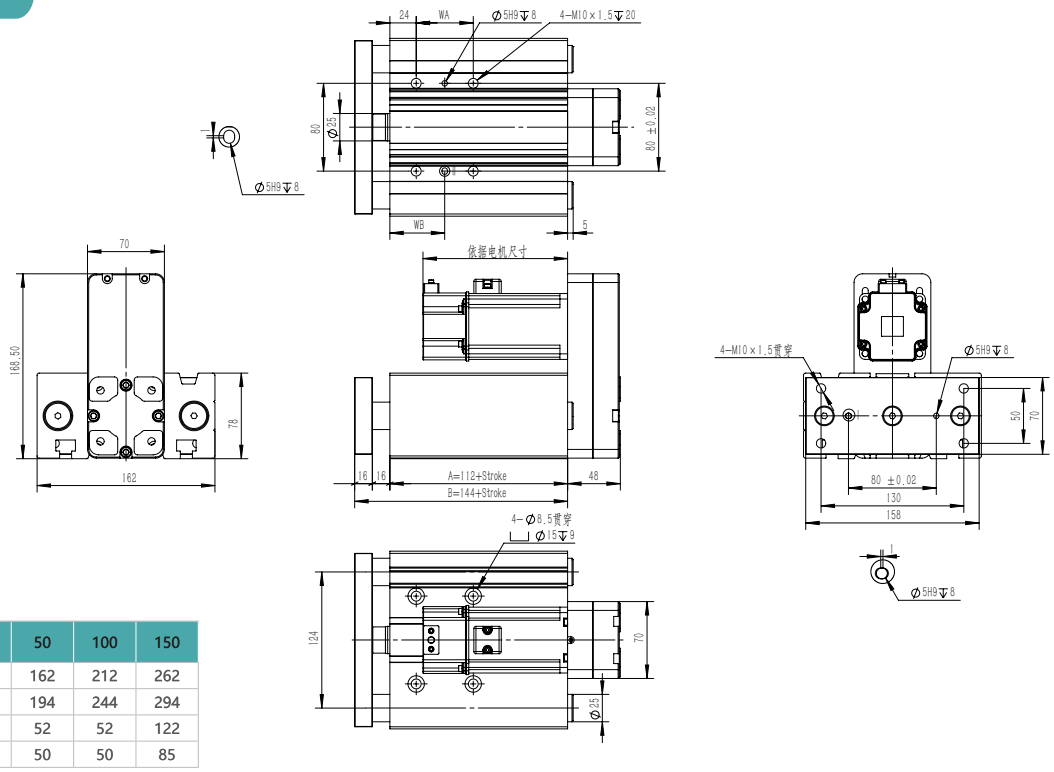
EG40-D



Stroke	30	50	100	150
A	142	162	212	262
B	174	194	244	294
WA	28	52	52	122
WB	38	50	50	85

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

EG40-P



Stroke	30	50	100	150
A	142	162	212	262
B	174	194	244	294
WA	28	52	52	122
WB	38	50	50	85

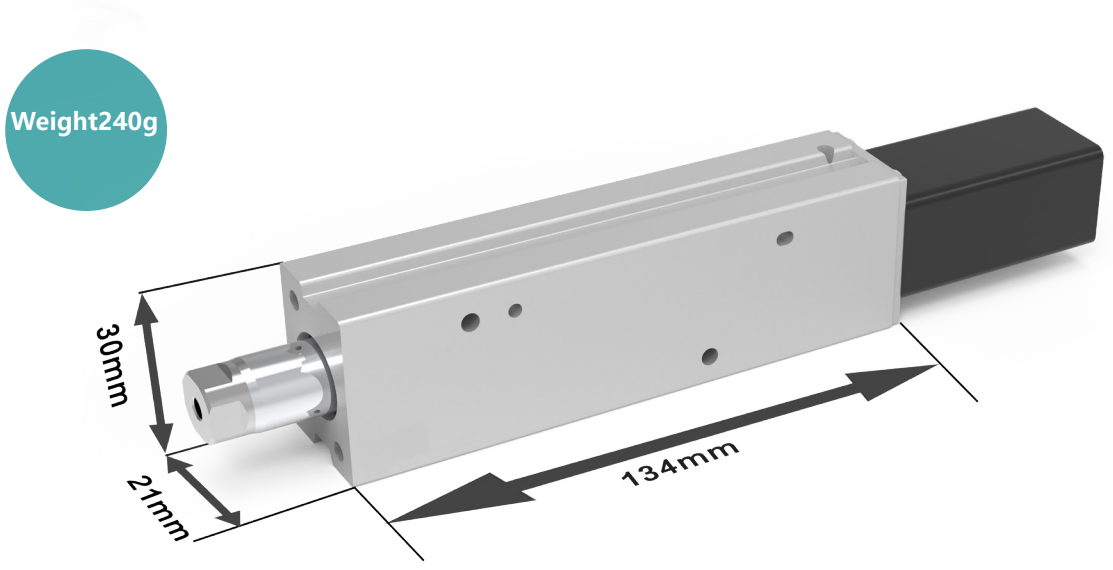
This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

17 >>>

EPY series electric sliding table

Environment	Transmission	Model	Motor size(mm)	Width (mm)	Repeatability (mm)	Screw specifications		Maximum transportable weight (kg)		Maximum speed (mm/s)
						External diameter (mm)	Lead (mm)	Horizontal use	Vertical use	
General environment	Trapezoidal screw	EPY6	20 □	21	±0.05	6	4	1	0.5	40
							12			120
		EPY10	28 □	29	±0.05	8	4	2	1.5	40
							10			100

※The maximum speed here corresponds to the speed when the stepper motor rotates at 600rpm

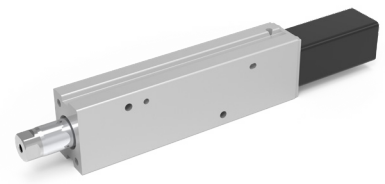


The picture shows the EPY6-25 series

EPY6

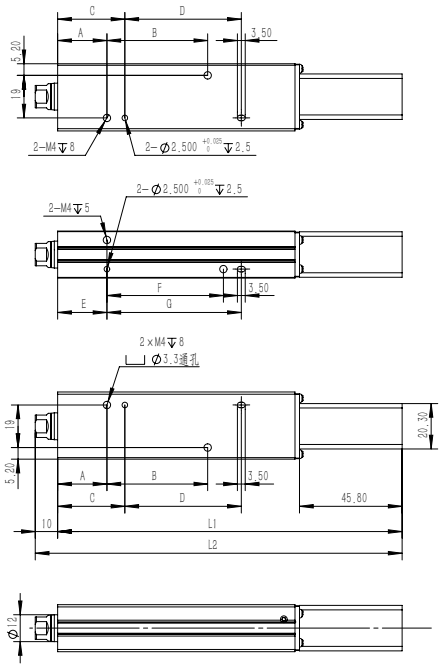
EPY6 -	50 -	P04	- S20 -	
Model	Stroke	Lead	Motor	Brake
	25mm	P04: 4mm	S20(split type)	□: Without brakes
	50mm	P12: 12mm	S20-485 (Integrated Drive Control System)	B : With brakes
	75mm		S20-PLS (Integrated Drive Control System)	

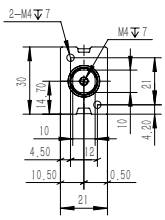
Parameters



Specifications	EPY6	
Repeatability mm	±0.05	
Screw lead mm	4	12
Maximum speed mm/s	40	120
Output N	20	7
Horizontal bearing capacity KG	1	
Vertical bearing capacity KG	0.5	
Standard stroke mm	25 50 75	
Specification of integrated drive control motor (without brake)	S20-485/S20-PLS	
Specification of integrated drive control motor (with brake)	S20B-485/S20B-PLS	
Rated voltage V	DC24	
Power W	12	
Motor torque N.m	0.05	
Communication method	PLS (pulse) 485(I/O.485)	

Motor direct connection





Unit: mm

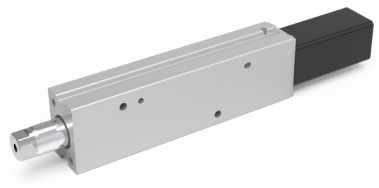
Model	L1	L2	A	B	C	D	E	F	G
EPY6-25	124.3	134.3	16.5	21	24.5	28	16.5	28	36
EPY6-50	153.8	163.8	22	45	30	52	22	52	60
EPY6-75	183.3	193.3	27.5	69	35.5	76	27.5	76	84

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

EPY10

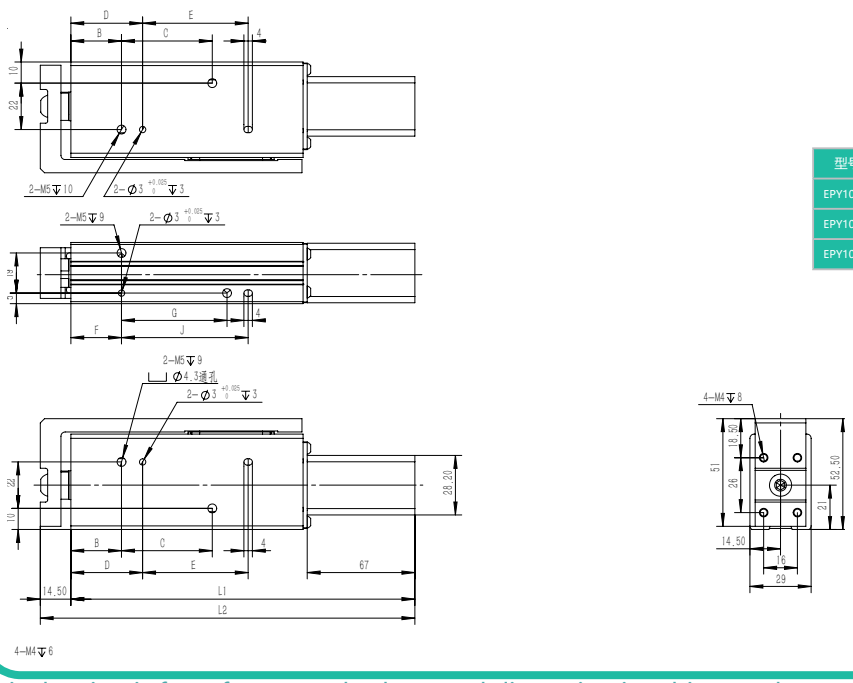
EPY10 -	50 -	P04	- S28 -	
Model	Stroke	Lead	Motor	Brake
	25mm	P04: 4mm	S28(split type)	口: Without brakes
	50mm	P12: 12mm	S28-485 (Integrated Drive Control System)	B : With brakes
	75mm		S28-PLS (Integrated Drive Control System)	

Parameters



Specifications	EPY10	
Repeatability mm	±0.05	
Screw lead mm	4	10
Maximum speed mm/s	40	100
Output N	30	15
Horizontal bearing capacity KG	2	
Vertical bearing capacity KG	1.5	
Standard stroke mm	25 50 75	
Specification of integrated drive control motor (without brake)	S28-485/S28-PLS	
Specification of integrated drive control motor (with brake)	S28B-485/S28B-PLS	
Rated voltage V	DC24	
Power W	28	
Motor torque N.m	0.09	
Communication method	PLS (pulse) 485(I/O.485)	

Motor direct connection



Unit: mm

型号	L1	L2	B	C	D	E	F	G	J
EPY10-25	138	150	20	22	30	29	20	29	39
EPY10-50	163	175	24	43	34	50	24	50	60
EPY10-75	188	200	28	64	38	71	28	71	81

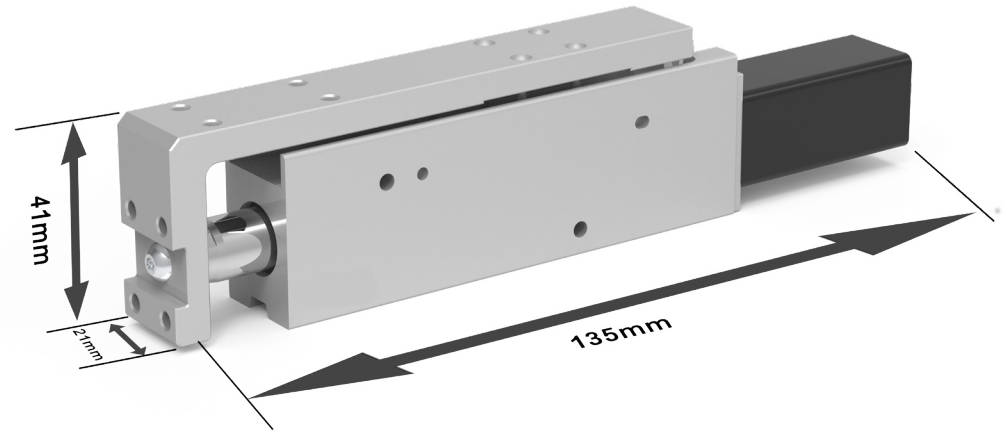
This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

EPS series electric sliding table

Environment	Transmission mode	Model	Motor size (mm)	Width (mm)	Repeatability (mm)	Screw specifications		Maximum transportable weight(kg)		maximum speed (mm/s)
						Outside diameter (mm)	Lead(mm)	Horizontal use	Vertical use	
General environment	Trapezoidal screw	EPS6	20 □	21	±0.05	6	4	1	0.5	40
							12			120
		EPS10	28 □	29	±0.05	8	4	2	1.5	40
							10			100

※The maximum speed here corresponds to the speed when the stepper motor rotates at 600rpm

Weight290g

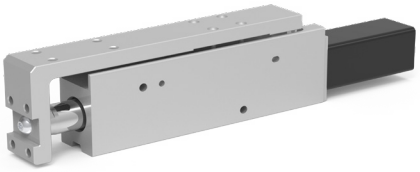


The picture shows the EPS6-25 series

EPS6

EPS6 -	50 -	P04	- S20 -	
Model	Stroke	Lead	Motor	Brake
	25mm	P04: 4mm	S20(split type)	□: Without brake
	50mm	P12: 12mm	S20-485 (Integrated Drive Control System)	B : With brake
	75mm		S20-PLS (Integrated Drive Control System)	

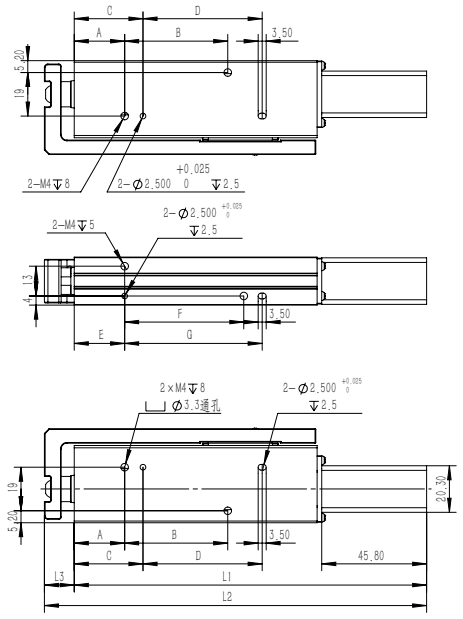
Parameter

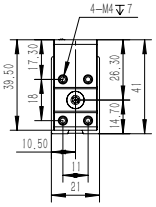


Specifications	EPS6	
Repeatability mm	±0.05	
Screw lead mm	4	12
Maximum speed mm/s	40	120
Output N	20	7
Horizontal bearing capacity KG	1	
Vertical bearing capacity KG	0.5	
Standard stroke mm	20 50 75	
Specification of integrated drive control motor (without brake)	S20-485/S20-PLS	
Specification of integrated drive control motor (with brake)	S20B-485/S20B-PLS	
Rated voltage V	DC24	
Power W	12	
Motor torque N.m	0.05	
Communication method	PLS (pulse) 485(I/O.485)	

Motor direct connection

Unit: mm





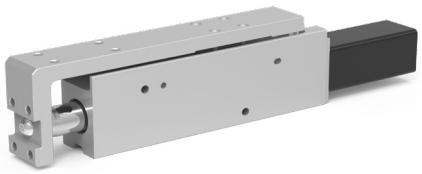
型号	L1	L2	L3	A	B	C	D	E	F	G	J
EPS6-25	124.3	135.8	11.5	16.5	21	24.5	28	16.5	28	36	87.4
EPS6-50	153.8	166.8	13	22	45	30	52	22	52	60	118.4
EPS6-75	183.3	197.8	14.5	27.5	69	35.5	76	27.5	76	84	149.4

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

EPS10

EPS10 -	50 -	P04	- S28 -	
Model	Stroke	Lead	Motor	Brake
	25mm	P04: 4mm	S28(split type)	□: Without brake
	50mm	P10: 10mm	S28-485 (Integrated Drive Control System)	B : With brake
	75mm		S28-PLS (Integrated Drive Control System)	

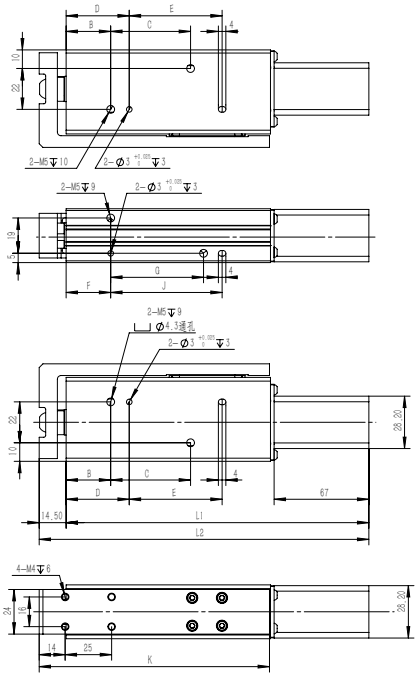
Parameter



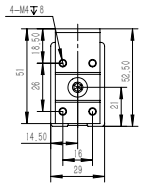
Specifications	EPS10	
Repeatability mm	±0.05	
Screw lead mm	4	10
Maximum speed mm/s	40	100
Output N	30	15
Horizontal bearing capacity KG	2	
Vertical bearing capacity KG	1.5	
Standard stroke mm	25 50 75	
Specification of integrated drive control motor (without brake)	S28-485/S28-PLS	
Specification of integrated drive control motor (with brake)	S28B-485/S28B-PLS	
Rated voltage V	DC24	
Power W	28	
Motor torque N.m	0.09	
Communication method	PLS (pulse) 485(I/O.485)	

Motor direct connection

Unit: mm



型号	L1	L2	B	C	D	E	F	G	J	K
EPS10-25	138	152.5	20	22	30	29	20	29	39	99
EPS10-50	163	177.5	24	43	34	50	24	50	60	124
EPS10-75	188	202.5	28	64	38	71	28	71	81	149



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

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EMH series electric slide table

-Built in motor type

Environment	Transmission mode	Model	Motor size (mm)	Width (mm)	Repeatability (mm)	Screw specifications		Maximum transportable weight(kg)		maximum speed (mm/s)
						Outside diameter(mm)	Lead(mm)	Horizontal use	Vertical use	
General environment	Ball screw	EMH28	28 □	34	±0.01	4	1	7	2	10
		EMH42	42 □	47	±0.01	8	2.5	15	4	25
							5	7	2	50

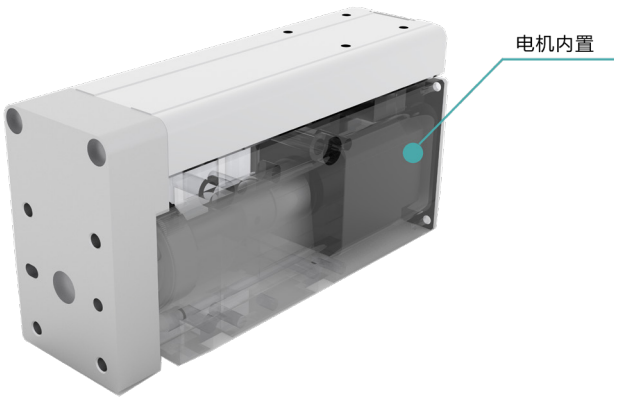
※The maximum speed here corresponds to the speed when the stepper motor rotates at 600rpm

High precision
High precision linear motion can achieve a control accuracy of around 0.01mm.

Quick response
It can complete actions such as starting, accelerating, decelerating, and stopping in a short period of time, improving work efficiency.

Easy to maintain
The electric cylinder has a compact structure, small installation space, and simple maintenance.





EMH

EMH28 -	50 -	P01 -	03
Model	Stroke	Lead	Motor wire length
28 42	50mm 75mm	P01:1mm P02：2mm	01：1m 03：3m 05：5m 10：10m

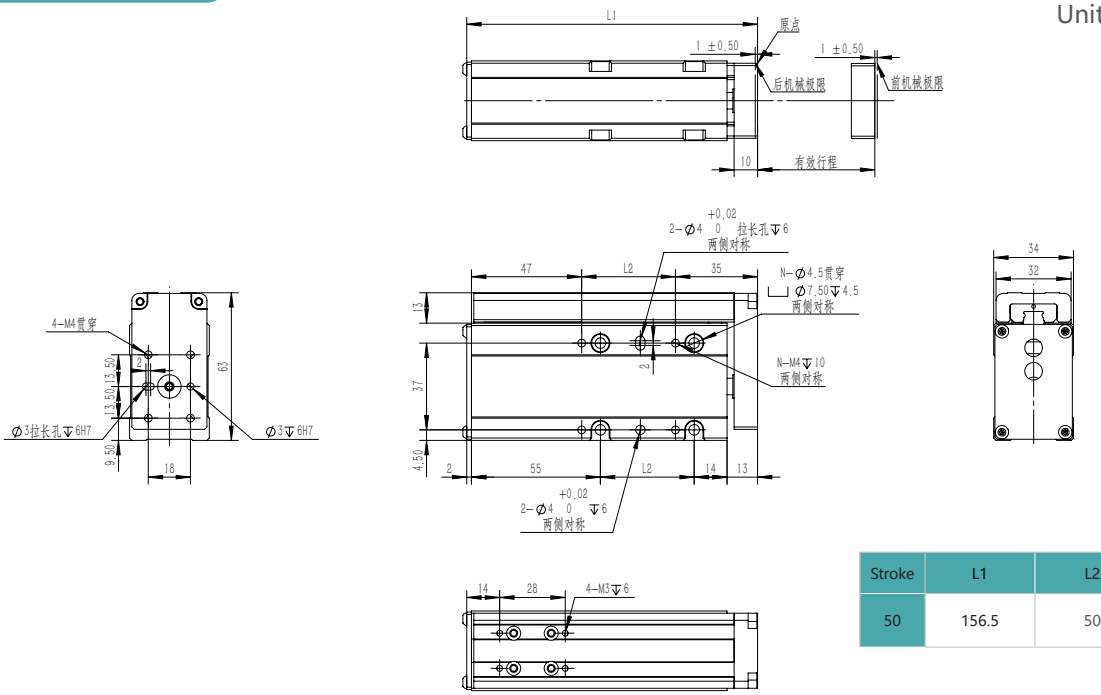


Parameter

Specifications	EMH28	EMH42
Repeatability mm	±0.01	±0.01
Screw lead mm	1	2
Maximum speed mm/s	60	120
Output N	70	150
Horizontal bearing capacity KG	7	15
Vertical bearing capacity KG	2	4
Standard stroke mm	50	50/75
Motor	28Stepper（External Drive）	42Stepper（External Drive）
Holding torqueN.m	0.12	0.25

EMH28 马达直连

Unit：mm

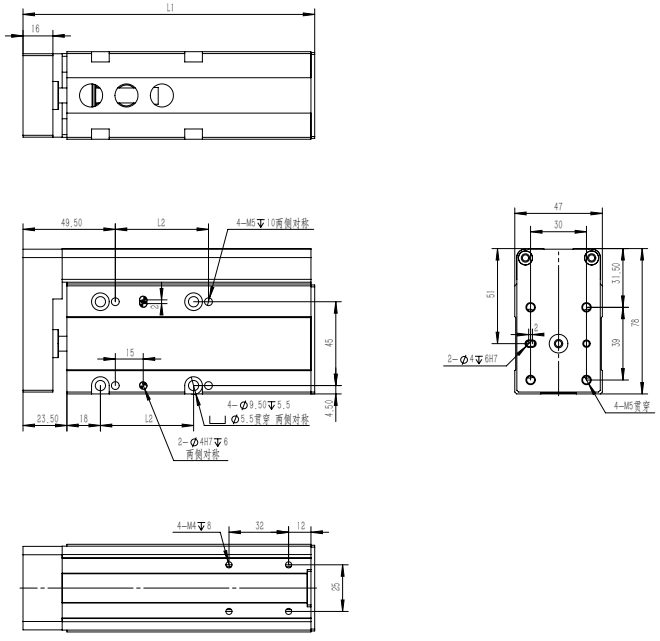


Stroke	L1	L2	N
50	156.5	50	8

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

EMH42 马达直连

Unit：mm



Stroke	L1	L2
50	156.5	50
75	181.5	75

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

EBQ series electric blocking cylinder

Environment	Transmission mode	Model	Motor size(mm)	Width(mm)	Screw specifications		Maximum speed (mm/s)
					External diameter(mm)	Screw lead(mm)	
General environment	Sliding screw+gear	EBQ32	28 □	45	8	10	80
		EBQ50	42 □	64	12	10	100

※The maximum speed here corresponds to the speed when the stepper motor rotates at 600rpm

Energy conservation

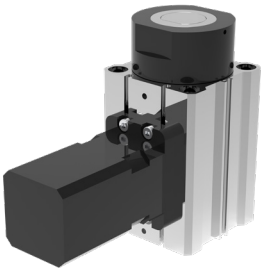
Reduce power consumption by 60% when the pole stops

Easy to set up

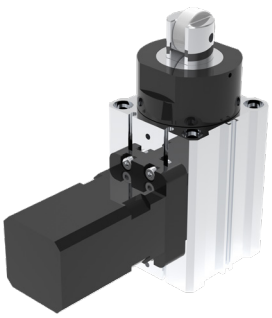
Using a controller that does not require programming, on-site adjustments can be easily made.

Suitable for transmission lines without gas source

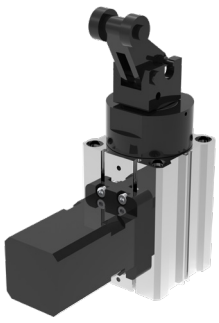
Front end shape of pole:
Straight out type/roller type/ lever type



Roller type



Straight out type



Lever type

EBQ

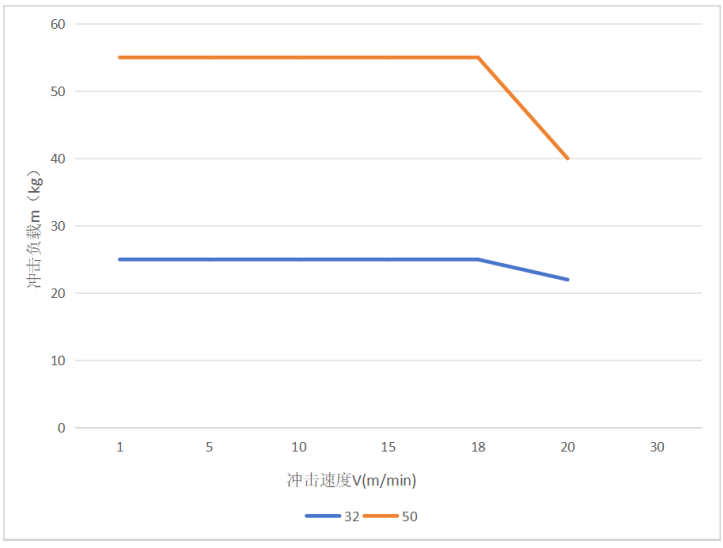
EBQ32 - 20 - K

- EBQ32 — Model: 32, 50
- 20 — Stroke: 20mm, 30mm
- K — Output shaft model: K: Straight out type; R: Roller type; L:Lever type

※Parameters

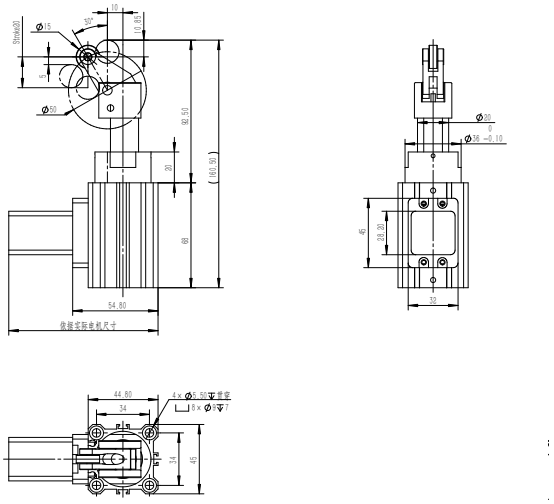
	Model	EBQ32	EBQ50
Actuator specifications	Stroke（mm）	20	30
	Speed（mm/s）	80	100
	Thread lead（mm）	10	10
	Drive	Sliding screw+gear	
	Temperature range for use（℃）	5-40	
	Use humidity range（% RH）	35-85	
Electrical specifications	Motor size	28	42
	Motor type	Stepping motor	
	Rated voltage V	DC24	
Weight	Straight out type Roller type（KG）	0.81	1.76
	Lever type（KG）	0.9	1.99

EBQ line graph



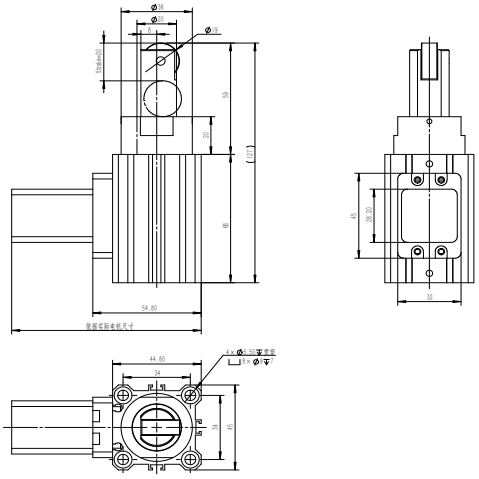
EBQ 32 Lever type

Unit：mm



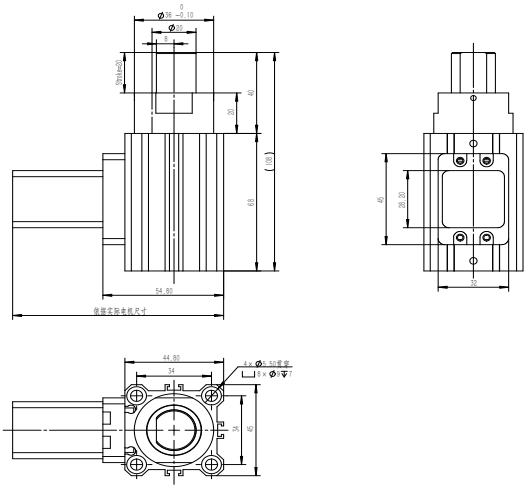
EBQ 32 Roller type

Unit：mm



EBQ 32 Straight out type

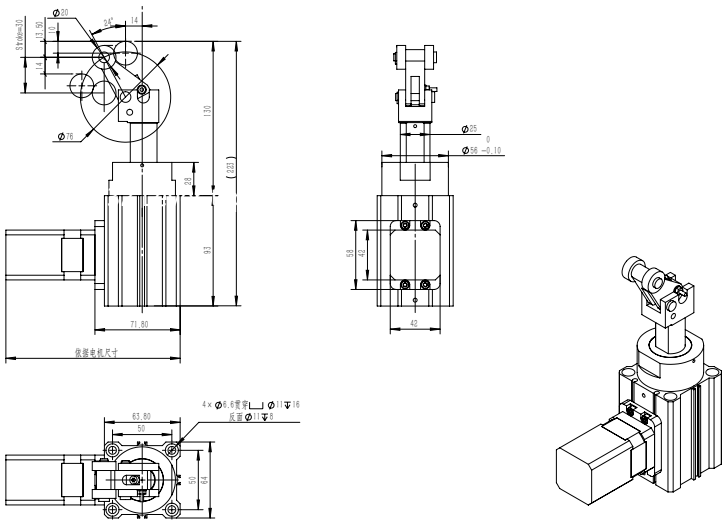
Unit：mm



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

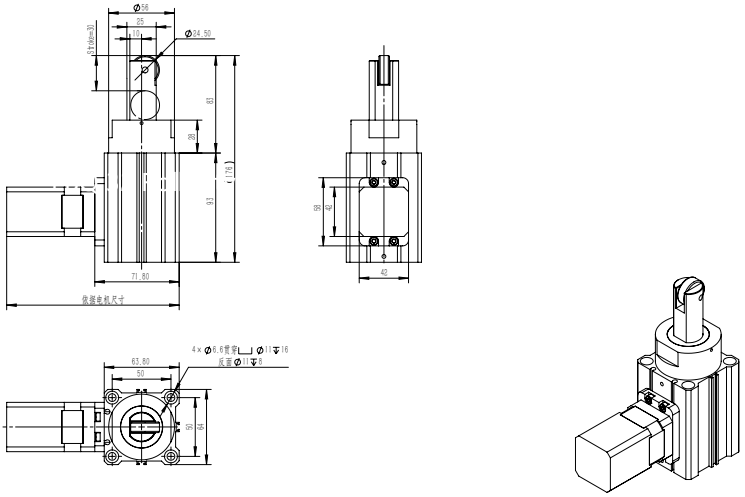
EBQ 50 Lever type

Unit: mm



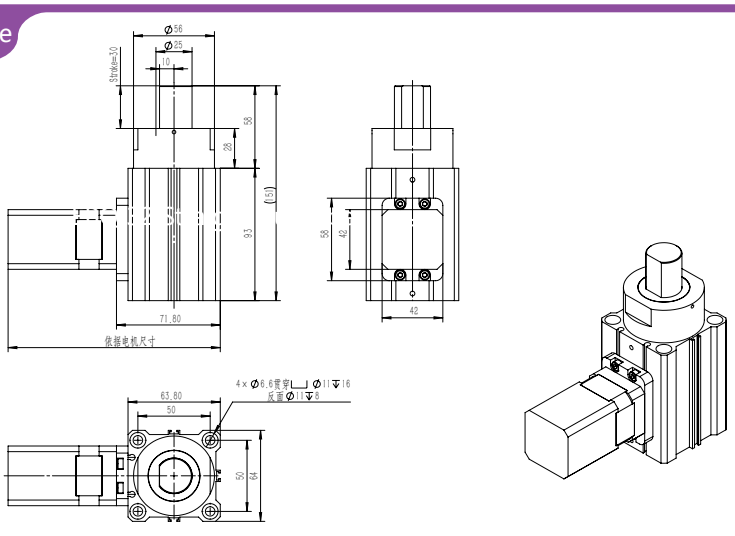
EBQ 50 Roller type

Unit: mm



EBQ 50 Straight out type

Unit: mm



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

21 ES Series standard electric cylinder

ES series maximum load 2T
*The entire series of ES complies with the SO15552 standard
Optional:

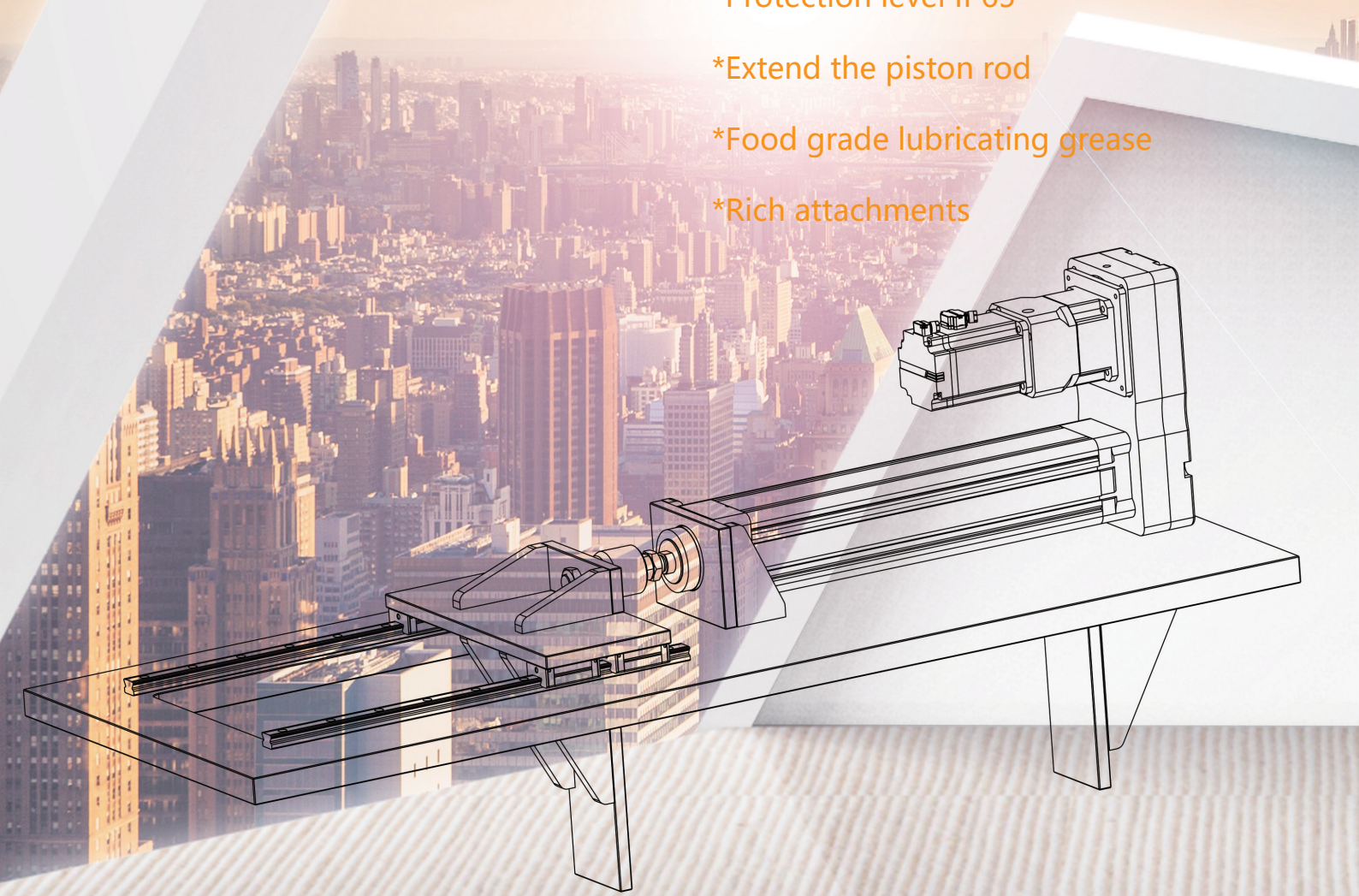
*High corrosion resistance level

*Protection level IP65

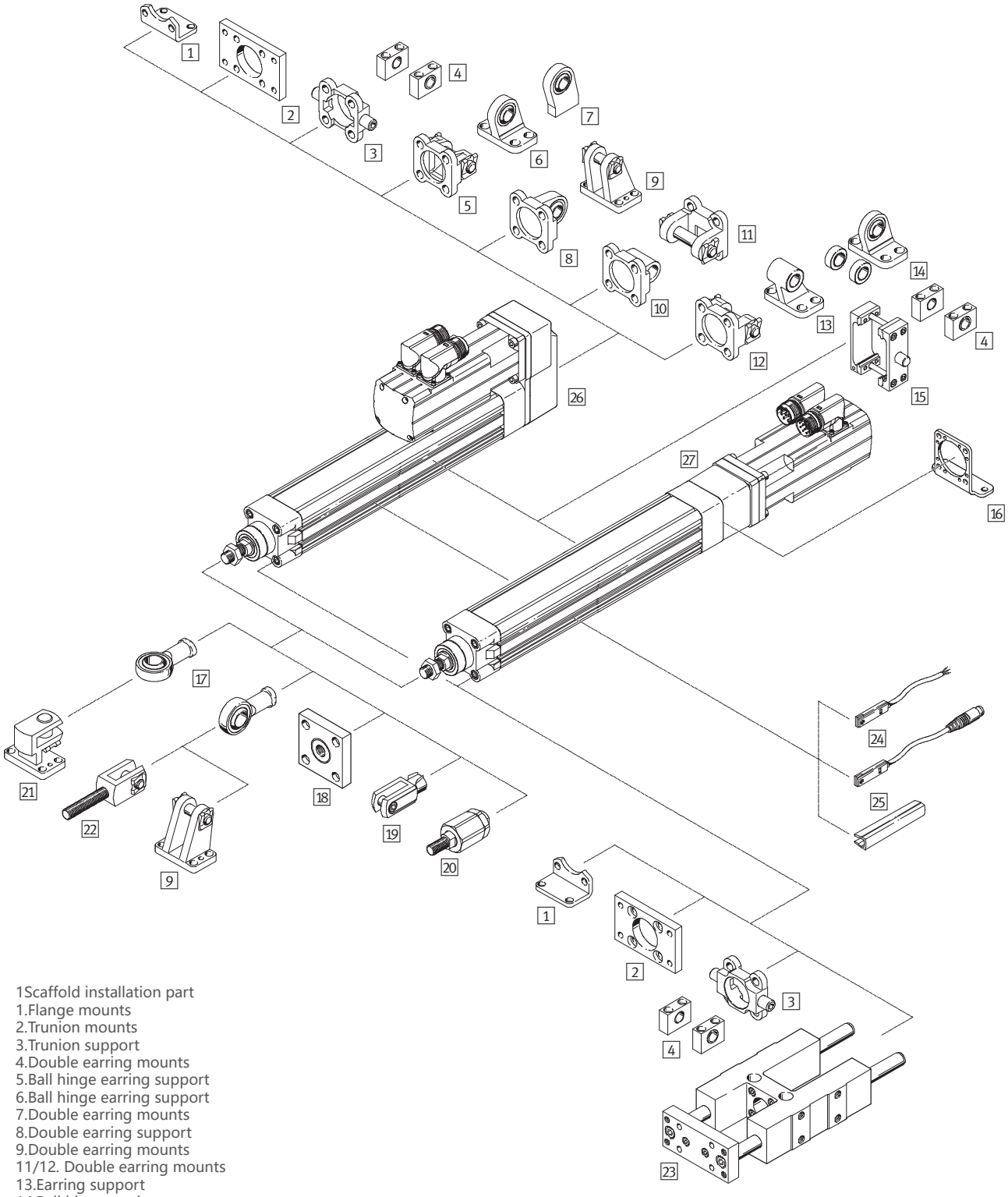
*Extend the piston rod

*Food grade lubricating grease

*Rich attachments



The piston rod of the electric cylinder is not recommended to withstand lateral forces. If there is lateral force during use, it is recommended to use it in conjunction with guide rails.



1Scaffold installation part
1.Flange mounts
2.Trunion mounts
3.Trunion support
4.Double earring mounts
5.Ball hinge earring support
6.Ball hinge earring support
7.Double earring mounts
8.Double earring support
9.Double earring mounts
11/12. Double earring mounts
13.Earring support
14.Ball hinge earring support
15.Trunion mounting assembly
16.Scaffold installation part
17.Spherical bearing
18.Connection flange
19.Double earrings
20.Self-aligning connector
21.Rectangular ball hinge earring support
22.Double earrings
23.Guide bracket
24.Proximity switch
25.Groove cover

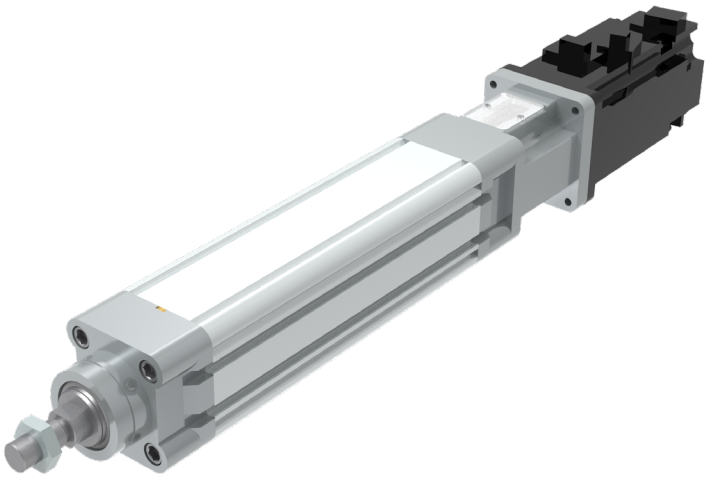
ES40

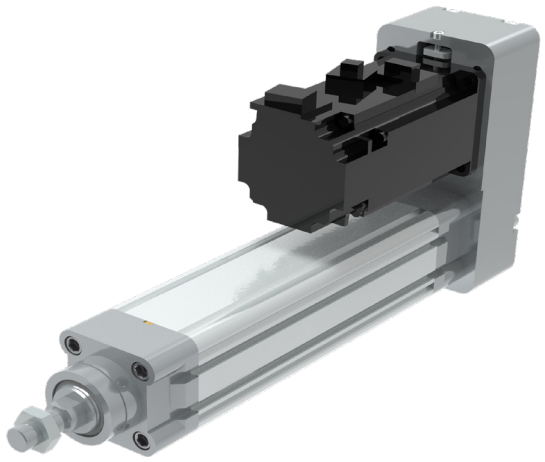
ES40	-	100	-	P10	-	D	-	M	20	-	3
Model		Stroke		Lead		Motor installation		Motor brand	Motor power		Switch

Stroke	Lead	Motor installation	Motor brand	Motor power	Switch
50-800mm	P05: 5mm	D:Direct	M: Mitsubishi	10 -	Sn: N switches (two-wire system)
50mm interval	P10: 10mm	P:Indirect	P : Panasonic	20 200W	
	P20: 20mm	No:Bare cylinder vacancy	Y : Yaskaw	40 400W	
			T : Delta	75 -	
			No: Bare cylinder vacancy		

Standard motor output (W)	200W/400W		
Rated torque (Nm)	0.64/1.27		
Max allowable input torque (Nm)	9		
Screw grade	C7 Rolling (Slenderness ratio1: 62.5)		
Repeatable positioning accuracy (mm)	±0.02		
Piston rod rotation angle (°)	±0.5		
Lead (mm)	5	10	20
Rated thrust(N)	720/1440	360/720	180/360
Max thrust in the axial direction (N)	3040	2890	2400
Max speed (mm/s)	250	500	1000
Stroke range (mm)	0-800		
Basic weight 0mm stroke (kg)	1.6		
Weight added per 100mm (kg)	0.61		
The component weight of direct installation motor (kg)	0.3		
The component weight of indirect installation motor (kg)	0.6		
Sensor	CS1-D-1M	Electronic magnetic switch, wire length 2m	

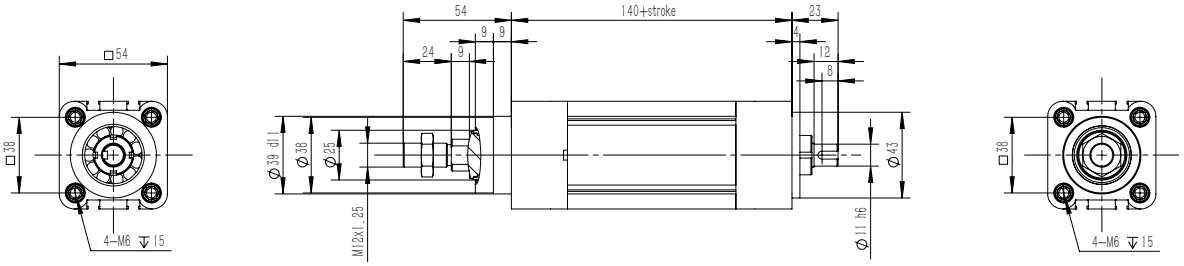
When the travel exceeds 250mm, there will be screw deflection. Please refer to page 14 of the table of contents





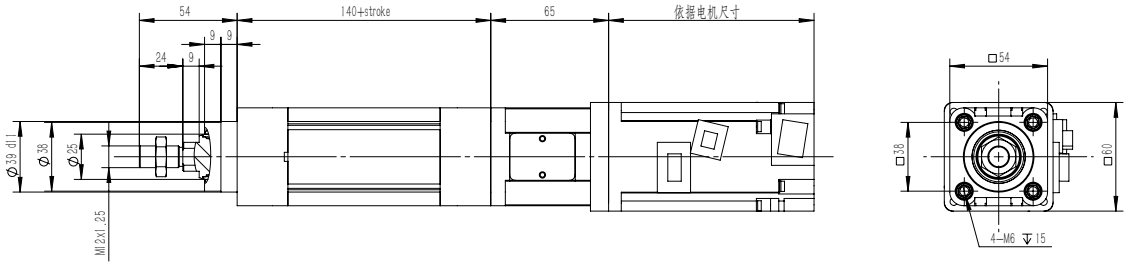
ES40-Bare cylinder

Unit：mm



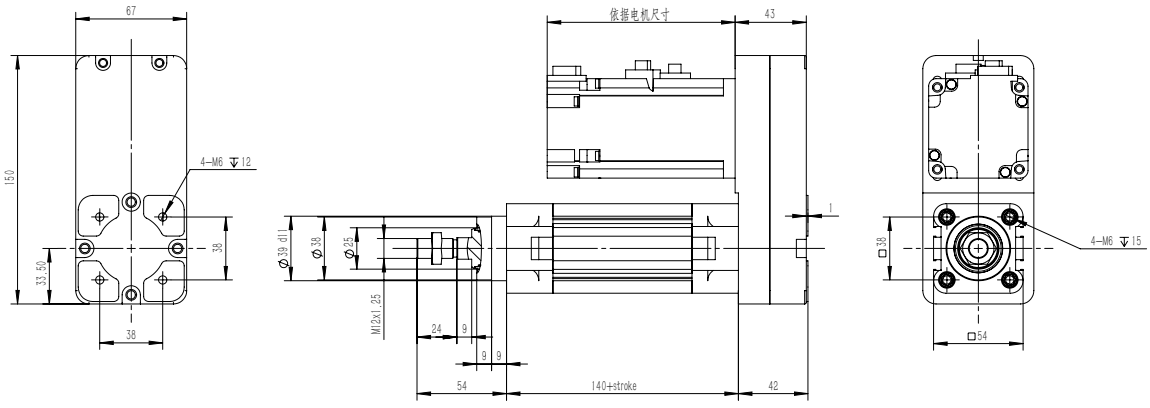
ES40-D-M200W

Unit：mm



ES40-P-M200W

Unit：mm



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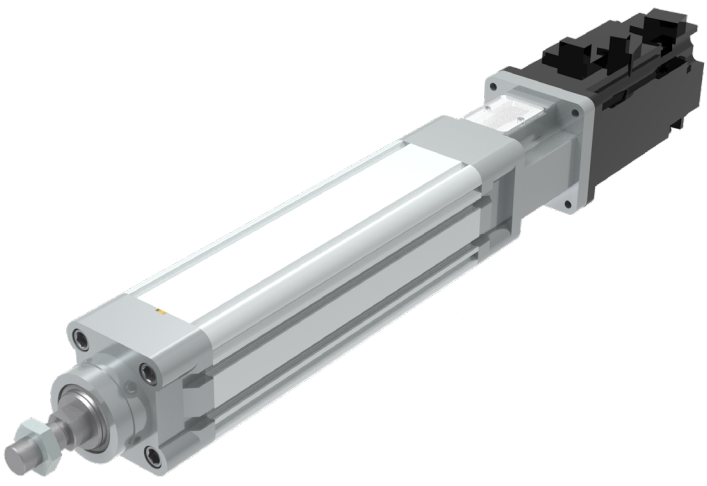
ES50

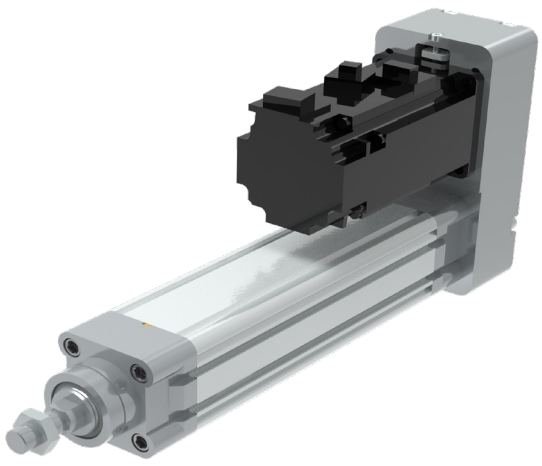
0 -	100 -	P10 -	D -	M	40 -	S3
lel	Stroke mm	Lead	Motor installation	Motor brand	Motor power	Switch

50-800mm	P05： 5mm	D:Direct	M： Mitsubishi	10 -	Sn: N switches (two-wire system)
50mm interval	P10: 10mm	P:Indirect	P ： Panasonic	20 -	
	P20: 20mm	No:Bare cylinder vacancy	Y ： Yaskaw	40 400W	
			T ： Delta	75 750W	
			No: Bare cylinder vacancy		

Standard motor output (W)	400W/750W		
Rated torque (Nm)	1.27/2.39		
Max allowable input torque (Nm)	18		
Screw grade	C7 Rolling (Slenderness ratio1: 70)		
Repeatable positioning accuracy(mm)	±0.02		
Piston rod rotation angle (°)	±0.5		
Lead (mm)	5	10	20
Rated thrust (N)	1440/2700	720/1350	360/675
Max thrust in the axial direction (N)	4060	5230	4860
Max speed (mm/s)	250	500	1000
Stroke range (mm)	0-1000		
Basic weight 0mm stroke (kg)	2.6		
Weight added per 100mm (kg)	0.87		
The component weight of direct installation motor (kg)	0.4/0.5		
The component weight of indirect installation motor (kg)	0.7/1.1		
Sensor	CS1-D-1M	Electronic magnetic switch, wire length 2m	

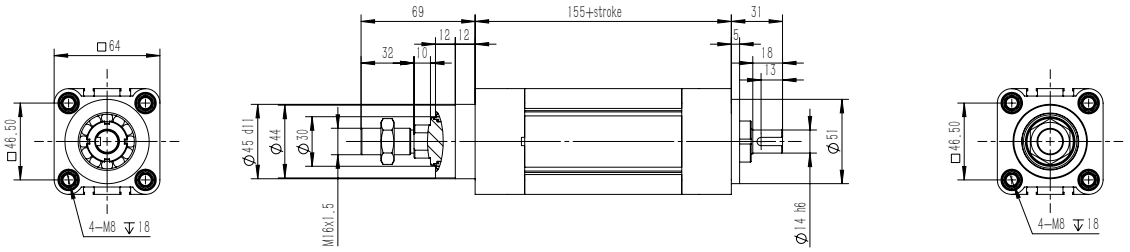
When the travel exceeds 300mm, there will be screw deflection. Please refer to page 14 of the table of contents





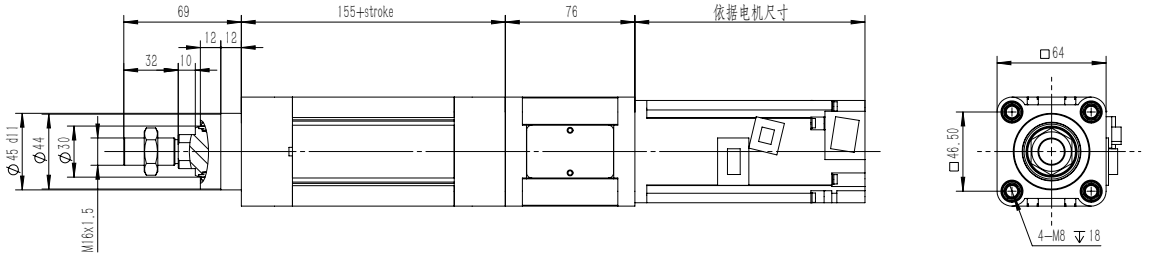
ES50-Bare cylinder

Unit：mm



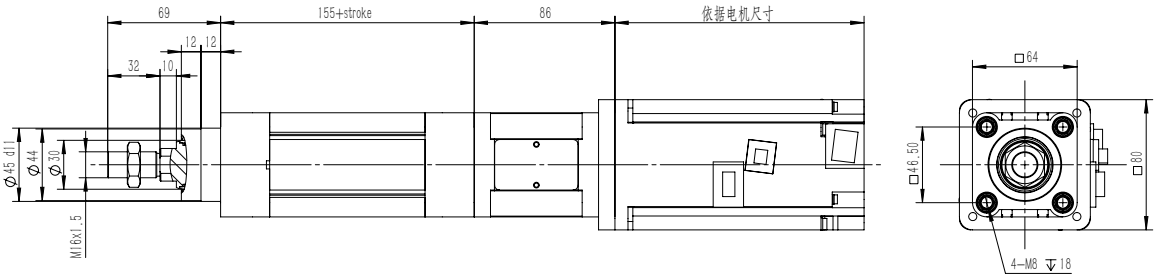
ES50-D-M400W

Unit：mm



ES50-D-M750W

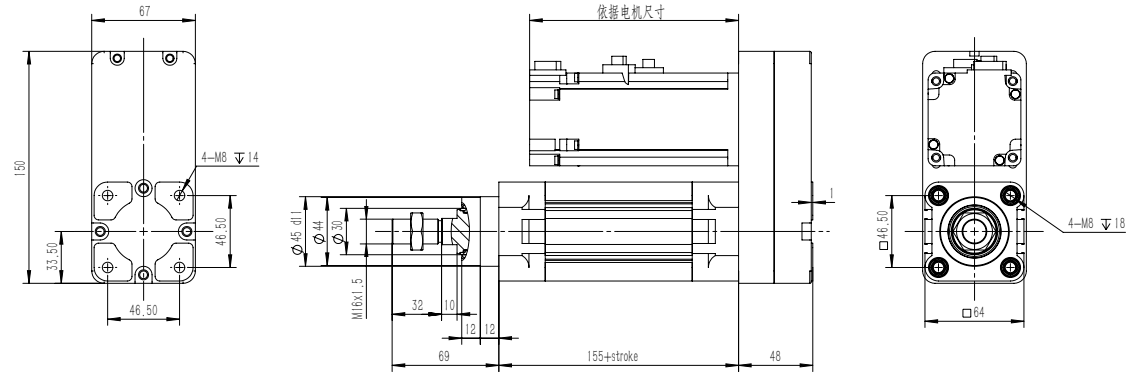
Unit：mm



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

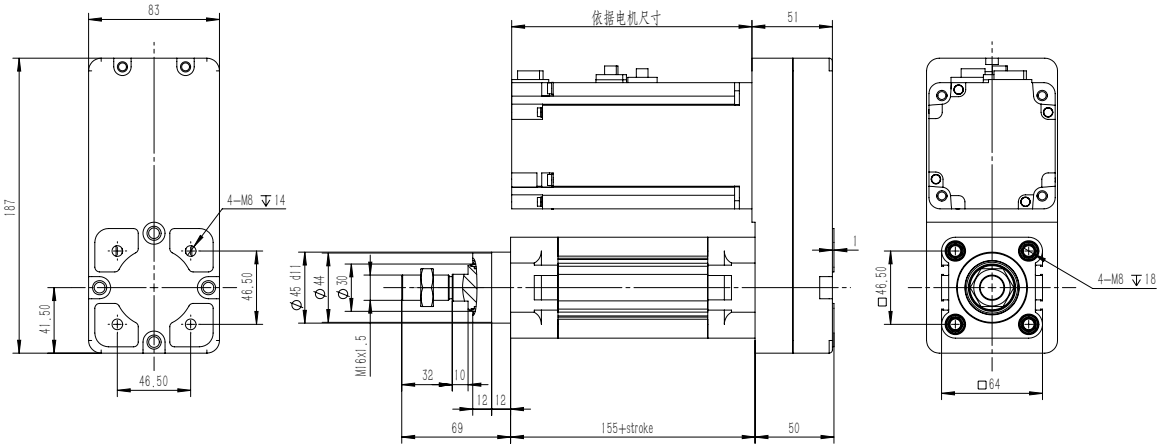
ES50-P-M400W

Unit：mm



ES50-P-M750W

Unit：mm



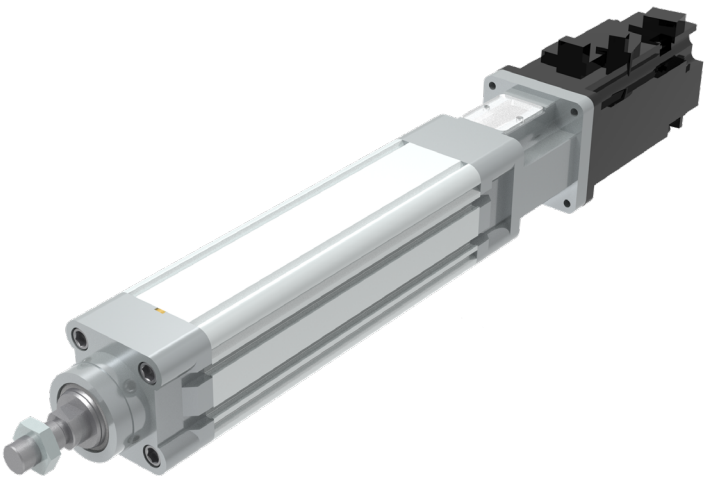
This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

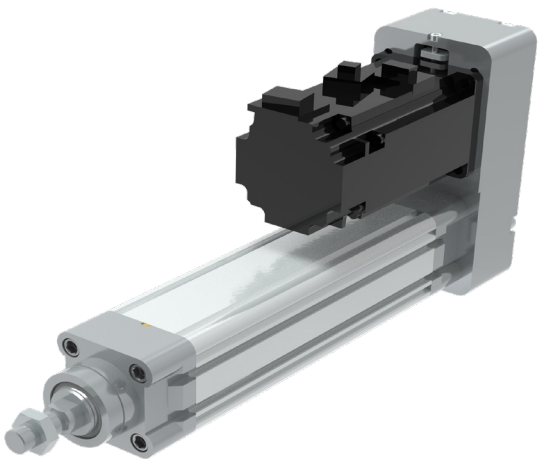
ES63

ES63	-	100	-	P10	-	D	-	M	75	-	S3
Model		Stroke		Lead		Motor installation		Motor brand	Motor power		Switch
		50-1200mm 50mm interval		P05：5mm P10: 10mm P25: 25mm		D：Direct P：Indirect No:Bare cylinder vacancy		M:Mitsubishi P: Panasonic Y ：Yaskawa T ：Delta No:Bare cylinder vacancy	10 - 20 - 40 - 75 750W		Sn: n switch

Standard motor output (W)	750W		
Rated torque (Nm)	2.39		
Max allowable input torque (Nm)	26		
Screw grade	C7Rolling(Slenderness ratio 1: 72)		
Repeatable positioning accuracy(mm)	±0.02		
Piston rod rotation angle (°)	±0.5		
Lead (mm)	5	10	25
Rated thrust (N)	2700	1350	540
Max thrust in the axial direction (N)	4520	5650	5770
Max speed (mm/s)	250	500	1250
Stroke range (mm)	0-1200		
Basic weight 0mm stroke (kg)	4.5		
Weight added per 100mm (kg)	1.31		
The component weight of direct installation motor (kg)	0.8		
The component weight of indirect installation motor (kg)	1.2		
Sensor	CS1-D-1M	Electronic magnetic switch, wire length 2m	

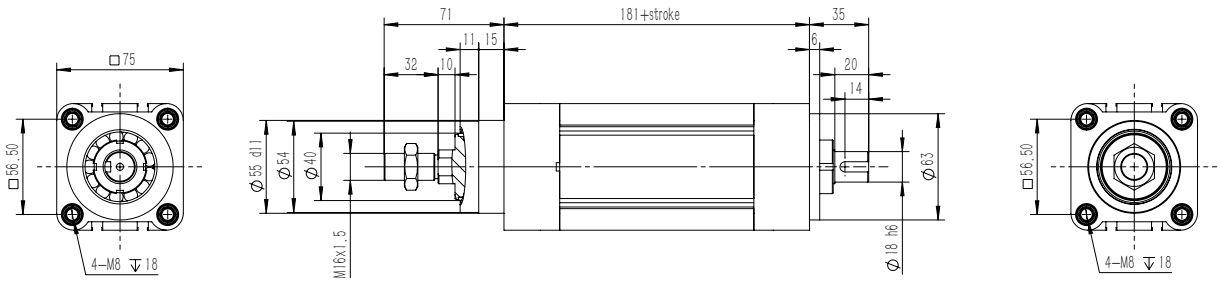
When the travel exceeds 350mm, there will be screw deflection. Please refer to page 14 of the table of contents





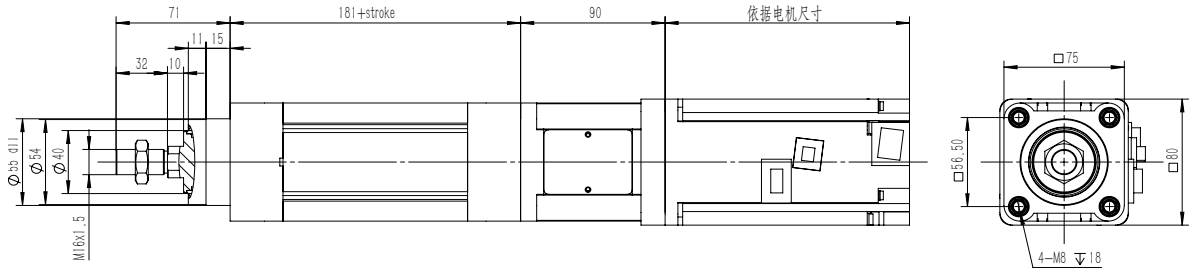
ES63-Bare cylinder

Unit: mm



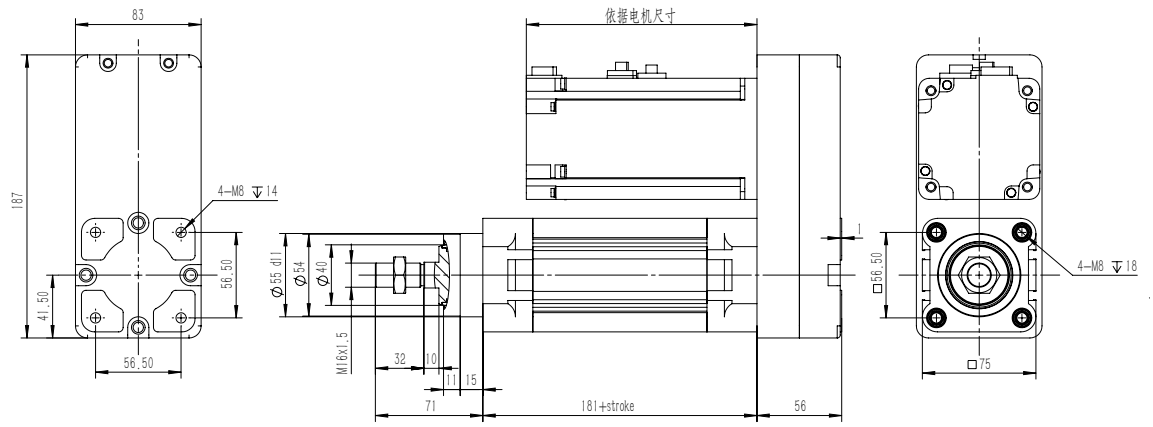
ES63-D-M750W

Unit: mm



ES63-P-M750W

Unit: mm



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

ES80

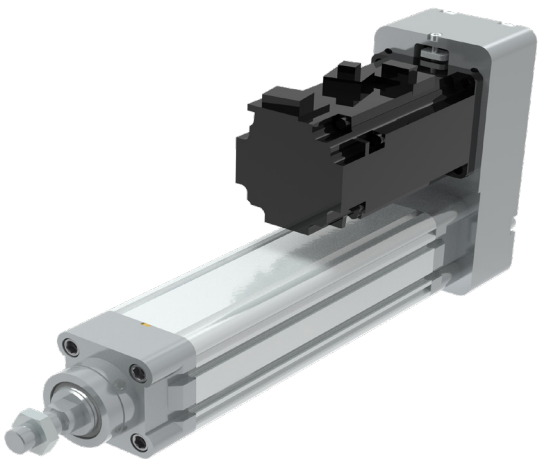
ES80	-	100	-	P10	-	D	-	M	1K	-	S3
Model		Stroke		Lead		Motor installation		Motor brand	Motor power		Switch

Stroke	Lead	Motor installation	Motor brand	Motor power	Switch
50-1200mm 50mm interval	P05: 5mm P10: 10mm P20: 20mm	D: Direct P: Indirect No:Bare cylinder vacancy	M:Mitsubishi P: Panasonic Y : Yaskawa T : Delta No:Bare cylinder vacancy	1K 1000W 1.5K -	Sn: n switch

Standard motor output (W)	1000W		
Rated torque (Nm)	4.77		
Max allowable input torque (Nm)	37		
Screw grade	C7Rolling(Slenderness ratio 1: 75)		
Repeatable positioning accuracy(mm)	±0.02		
Piston rod rotation angle (°)	±0.5		
Lead (mm)	5	10	20
Rated thrust (N)	5400	2700	1350
Max thrust in the axial direction (N)	5030	8490	8290
Max speed (mm/s)	166	333	666
Stroke range (mm)	0-1200		
Basic weight 0mm stroke (kg)	8		
Weight added per 100mm (kg)	2.31		
The component weight of direct installation motor (kg)	1.6		
The component weight of indirect installation motor (kg)	3.5		
Sensor	CS1-D-1M	Electronic magnetic switch, wire length 1m	

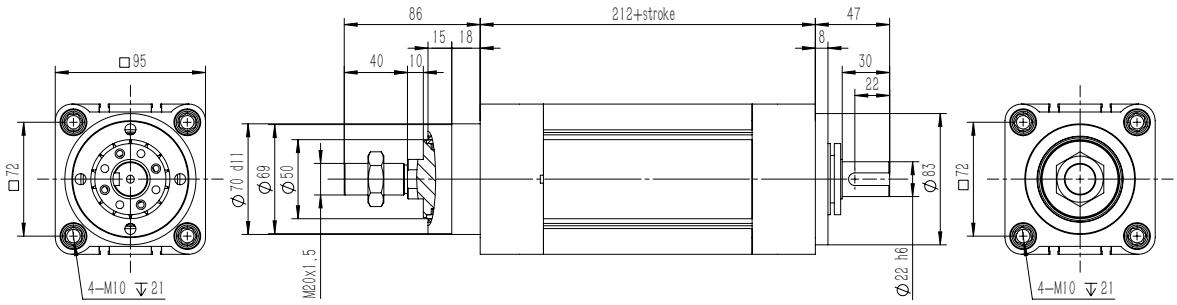
When the travel exceeds 550mm, there will be screw deflection. Please refer to page 14 of the table of contents





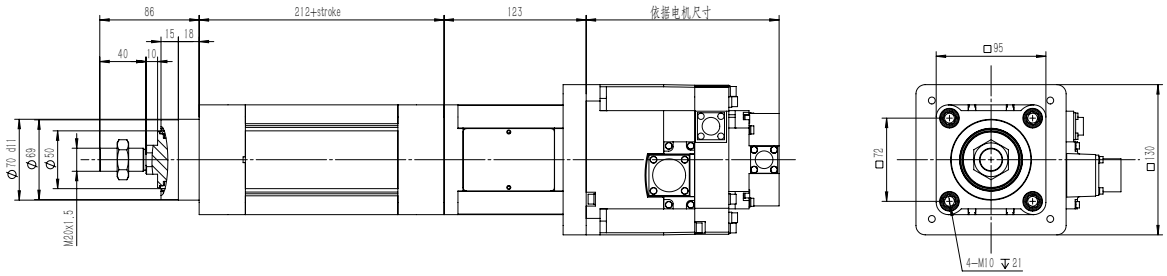
ES80-Bare cylinder

Unit：mm



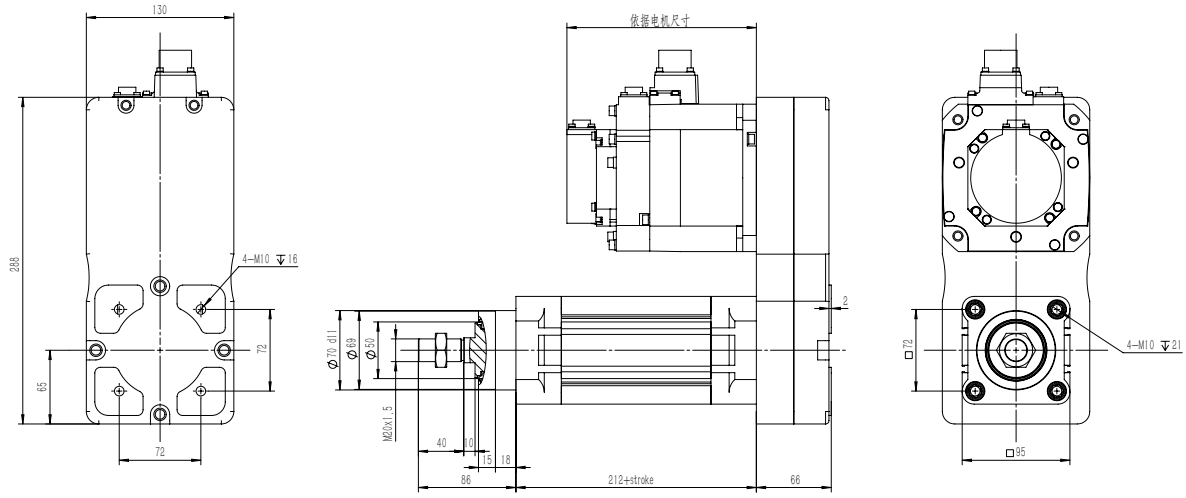
ES80-D-M1000W

Unit：mm



ES80-P-M1000W

Unit：mm



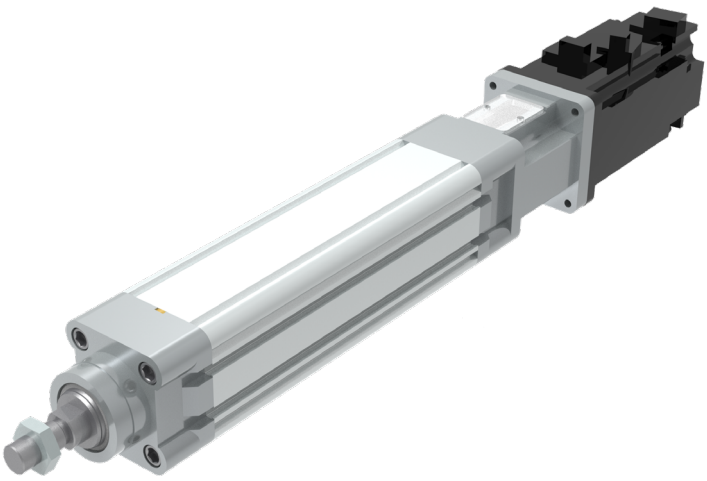
This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

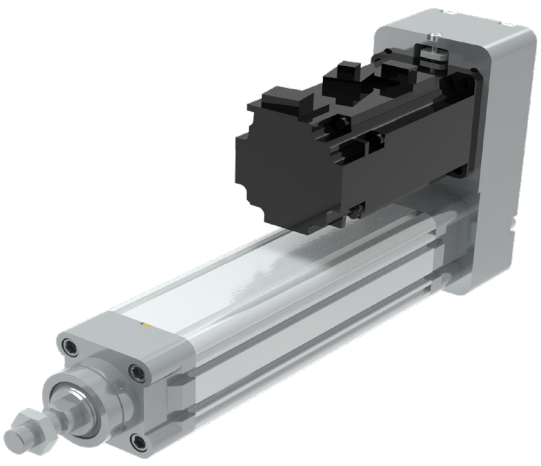
ES100

ES100	-	100	-	P10	-	D	-	M	1K	-	S3
Model		Stroke		Lead		Motor installation		Motor brand	Motor power		Switch
		50-1500mm		P05：5mm		D:Direct		M：Mitsubishi	1K -		Sn:n switch
				P10: 10mm		P：Indirect		P ：Panasonic	1.5K 1500W		
				P20: 20mm		No:Bare cylinder vacancy		Y ：Yaskawa			
								T ：Delta			
								No:Bare cylinder vacancy			

Standard motor output (W)	1500W	
Rated torque (Nm)	7.16	
Max allowable input torque (Nm)	101	
Screw grade	C7Rolling(Slenderness ratio 1: 78)	
Repeatable positioning accuracy(mm)	±0.02	
Piston rod rotation angle (°)	±0.5	
Lead (mm)	10	20
Rated thrust (N)	4050	2025
Max thrust in the axial direction (N)	17380	17220
Max speed (mm/s)	333	666
Stroke range (mm)	0-1500	
Basic weight 0mm stroke (kg)	12	
Weight added per 100mm (kg)	2.9	
The component weight of direct installation motor (kg)	3	
The component weight of indirect installation motor (kg)	4	
Sensor	CS1-D-1M	Electronic magnetic switch, wire length 1m

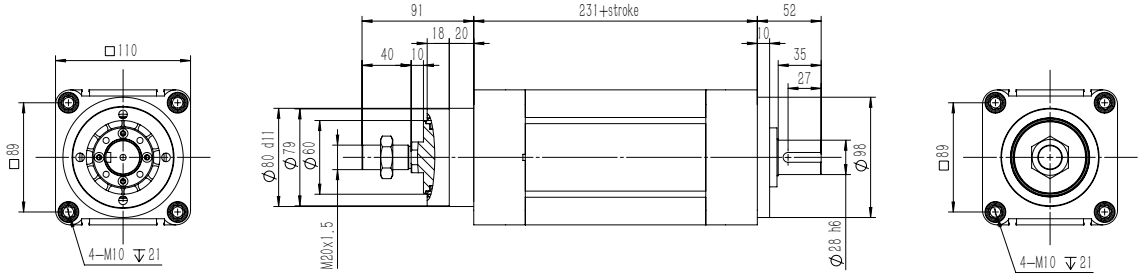
When the travel exceeds 600mm, there will be screw deflection. Please refer to page 14 of the table of contents





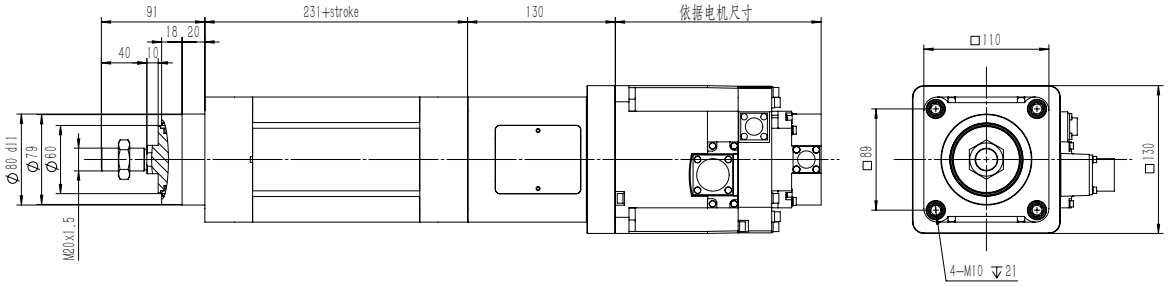
ES100-Bare cylinder

Unit：mm



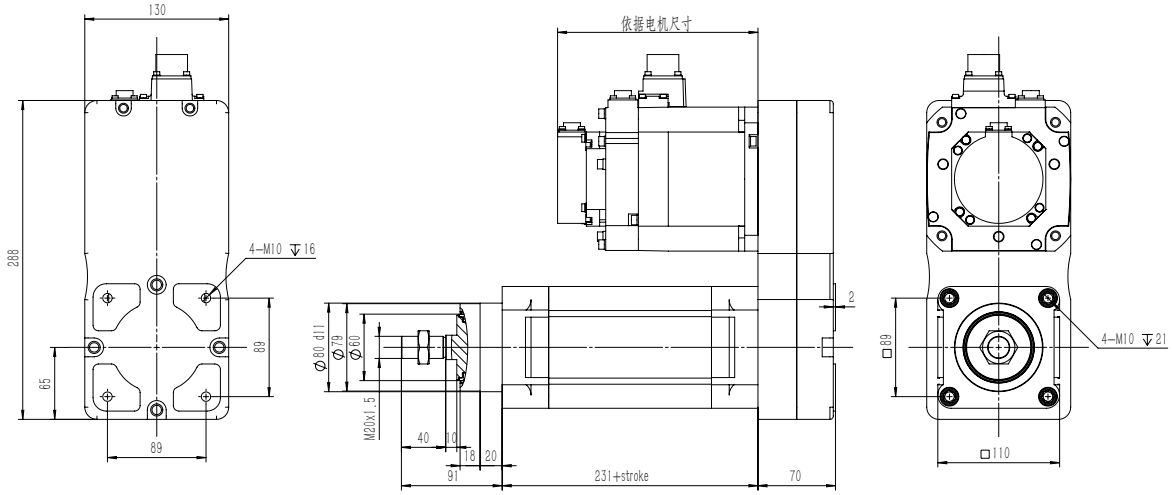
ES100-D-M1500W

Unit：mm



ES100-P-M1500W

Unit：mm



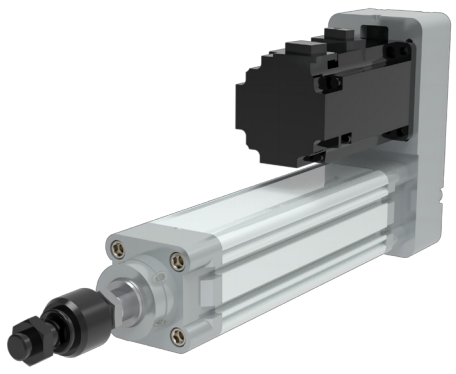
This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Standard Attachment Naming Rules

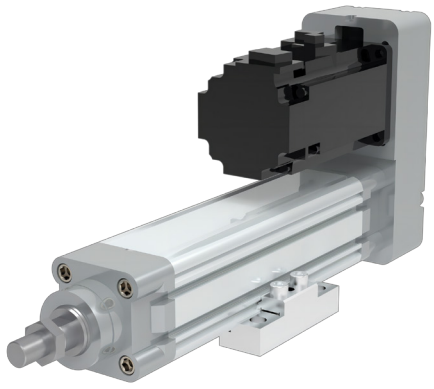
ES- □ - □ - □ - □ - □	- FU	- N -	0
Single cylinder model	Standard Attachment Naming Rules	Quantity	Attachment installation direction
	FD: Floating joint	None: The default quantity is 1	None: default direction
	FYK: Briquette	N: Quantity is N	0: The sample specifies the opposite direction
	FLB: Tripod		
	FU: Fish eye joint		
	FI: Type I connector		
	FY: Y-joint		
	FDX: Guide bracket		
	FF: Front end flange		
	FCA: Single earring		
	FCB: Double earrings		
	A: Standard strengthening of external teeth		

Note: This naming specification is only applicable to the accessories that need to be installed. If there is a separate purchase requirement, please refer to the corresponding accessory's ordering number

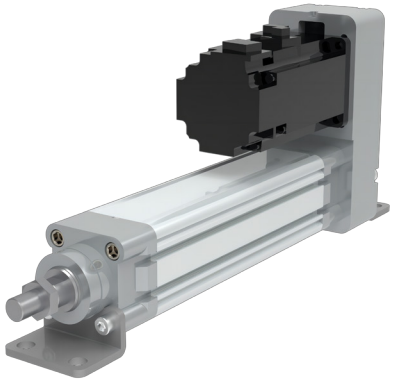
Floating joint



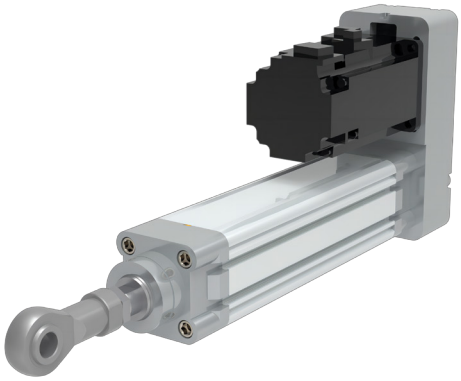
FYK Briquette



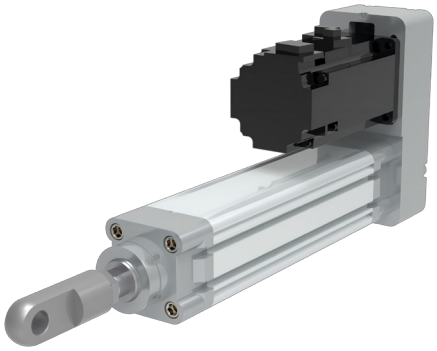
FLB tripod



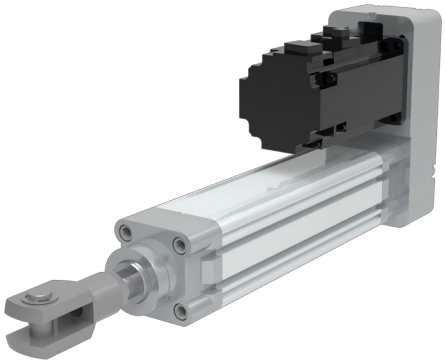
FU Fish Eye Connector



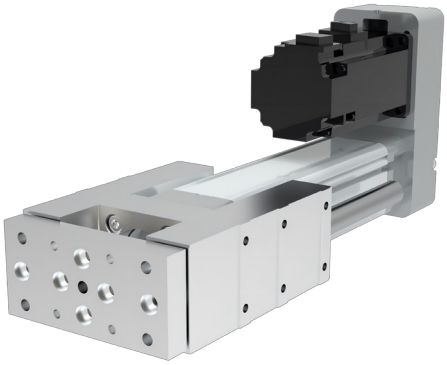
FI Type I connector



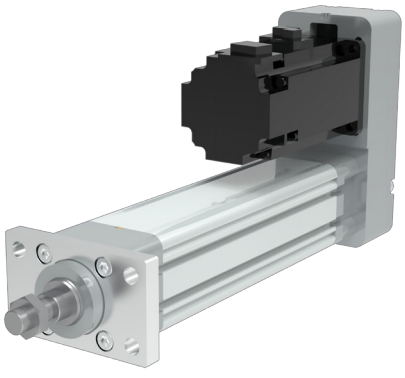
FY Y-shaped connector



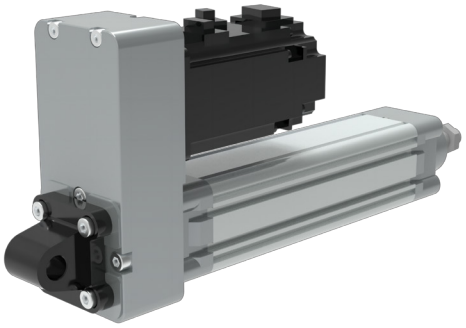
FDX guide bracket



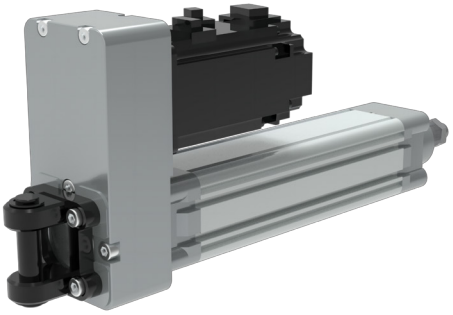
FF front-end flange



FCA single earring

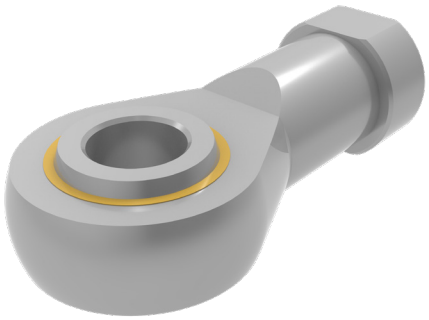


FCB Double Earrings

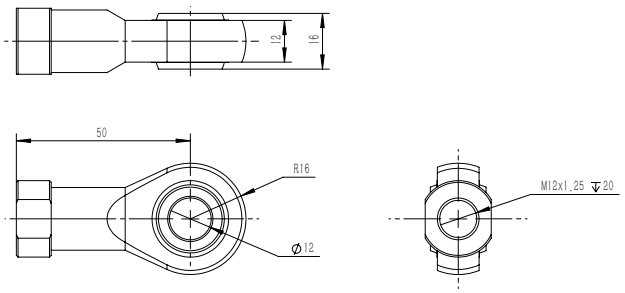


Standard attachment fisheye connector

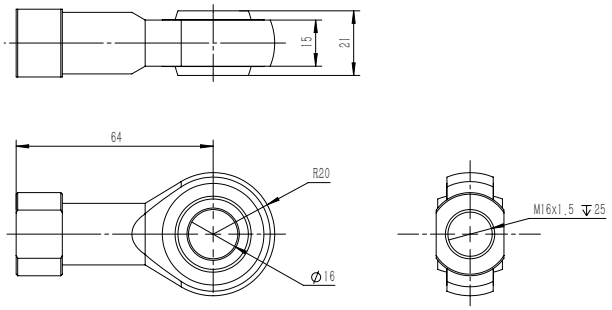
Model	Fish eye joint ordering model
ES40	F-M12X125U
ES50	F-M16X150U
ES63	
ES80	F-M20X150U
ES100	



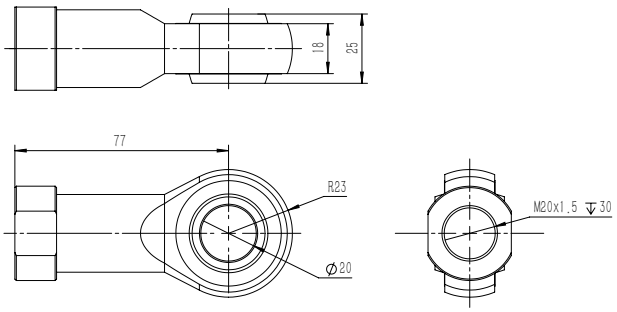
F-M12X125U



F-M16X150U



F-M20X150U

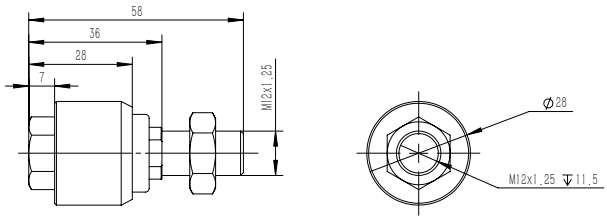


Standard Attachment - Floating Joint

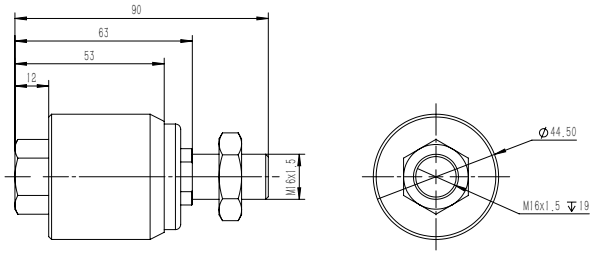
Model	Floating connector ordering model
ES40	F-M12X125F
ES50	F-M16X150F
ES63	
ES80	F-M20X150F
ES100	



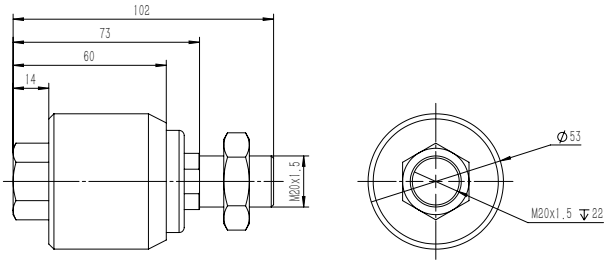
F-M12X125F



F-M16X150F

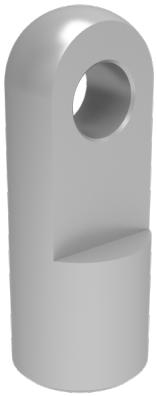


F-M20X150F

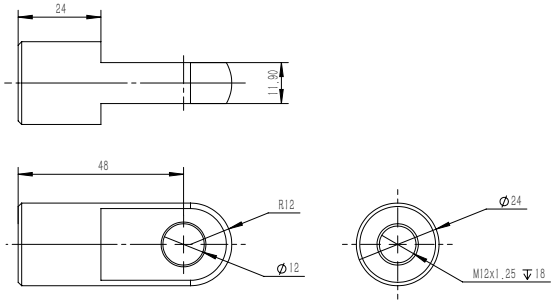


Standard Attachment-I Type Connector

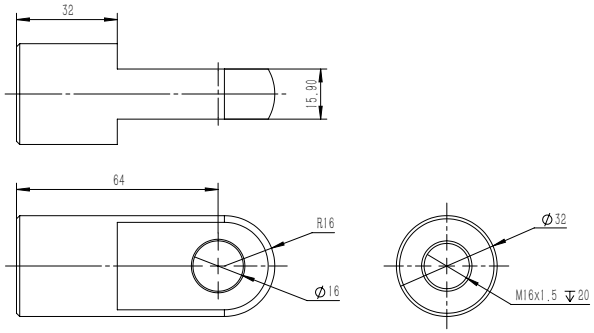
Model	Type I connector ordering model
ES40	F-M12X125I
ES50	F-M16X150I
ES63	
ES80	F-M20X150I
ES100	



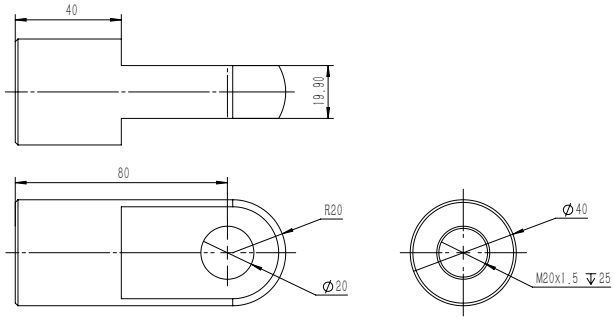
F-M12X125I



F-M16X150I

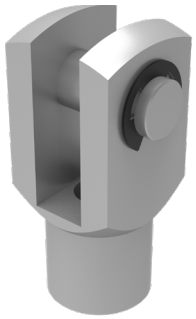


F-M20X150I

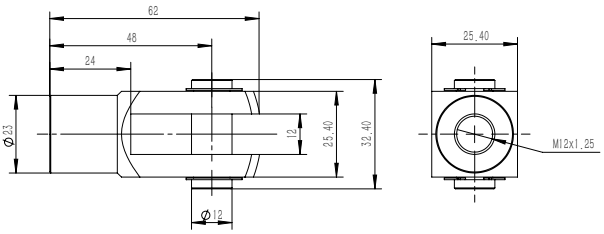


Standard Attachment-Y Type Connector

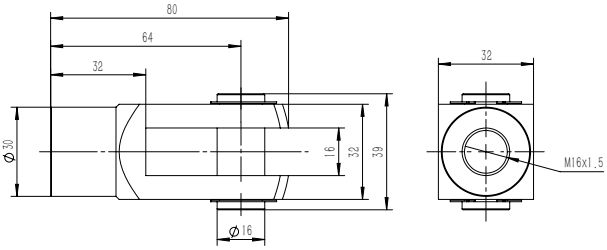
Model	Y-shaped connector ordering model
ES40	F-M12X125Y
ES50	F-M16X150Y
ES63	
ES80	F-M20X150Y
ES100	



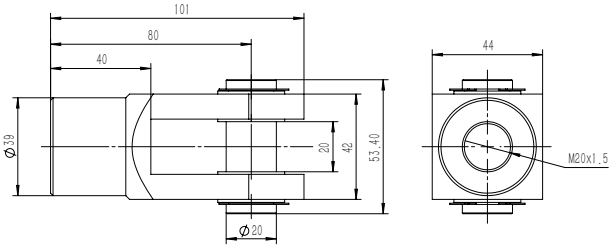
F-M12X125Y



F-M16X150Y



F-M20X150Y

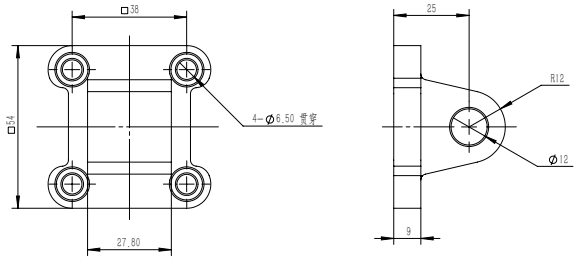


Standard Attachment-Single earring

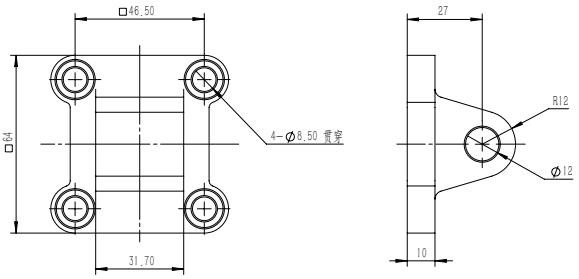
Model	Single earring ordering model
ES40	F-SE40CA
ES50	F-SE50CA
ES63	F-SE63CA
ES80	F-SE80CA
ES100	F-SE100CA



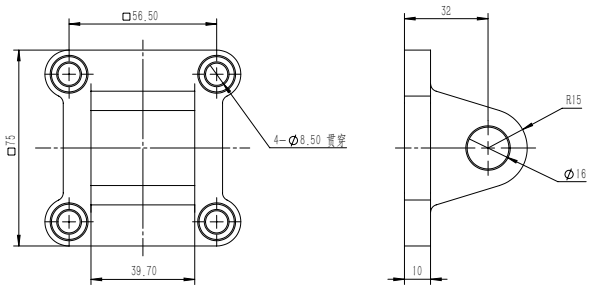
F-SE40CA



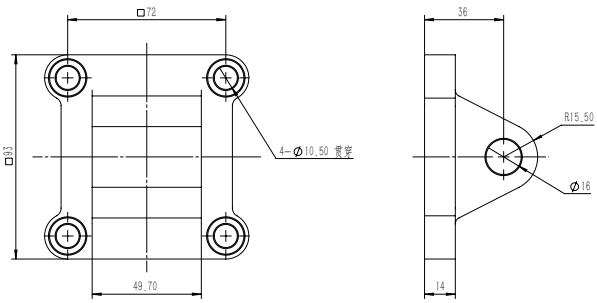
F-SE50CA



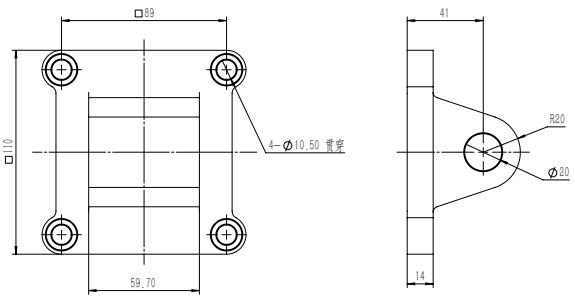
F-SE63CA



F-SE80CA



F-SE100CA

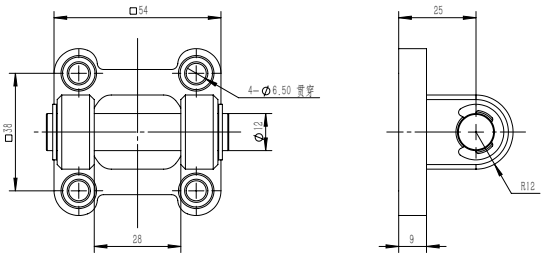


Standard Attachment-Double earring

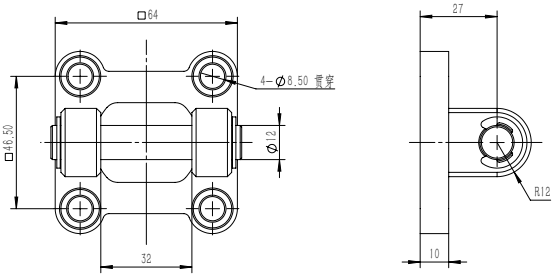
Model	Double Earrings Ordering Model
ES40	F-SE40CB
ES50	F-SE50CB
ES63	F-SE63CB
ES80	F-SE80CB
ES100	F-SE100CB



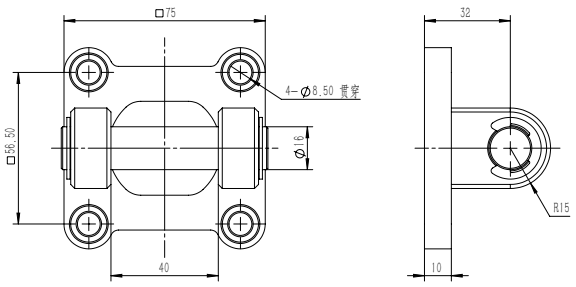
F-SE40CB



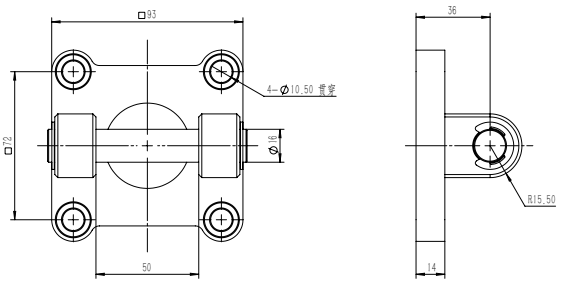
F-SE50CB



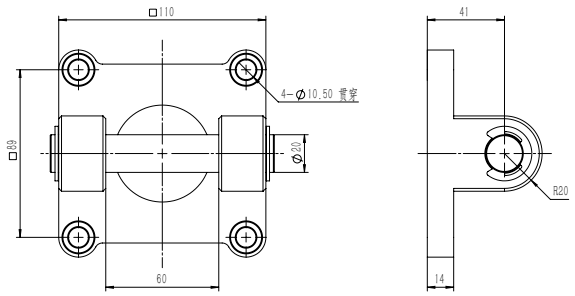
F-SE63CB



F-SE80CB

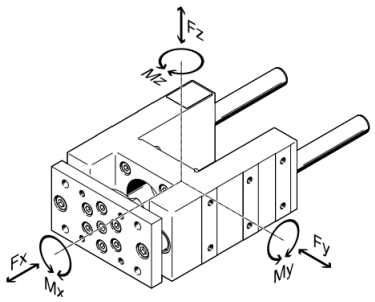


F-SE100CB

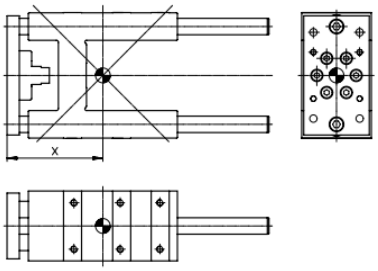


Standard Attachment - Guiding Bracket

ES series guidance bracket force and torque indication



If the guiding device is subjected to multiple indicated forces and torques, in addition to the maximum indicated value, the following equation load must also be satisfied



Calculate the load comparison coefficient:

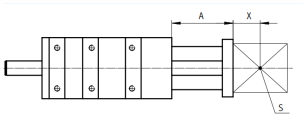
$$f_v = \frac{|F_{y1}|}{F_{y2}} + \frac{|F_{z1}|}{F_{z2}} + \frac{|M_{x1}|}{M_{x2}} + \frac{|M_{y1}|}{M_{y2}} + \frac{|M_{z1}|}{M_{z2}} \le 1$$

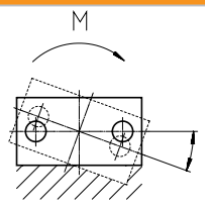
F1/M1=Dynamic value
F2/M2=Maximum value

Parameter Table					
Model	40	50	63	80	100
Static stat					
Fymax./Fzmax. (N)	1260	1600	1600	3120	3120
Mxmax. (N.m)	55	83	95	231	268
Mymax./Mzmax.(N.m)	65	89	115	259	267
Dynamic (with a service life of 5000 kilometers)					
Fymax./Fzmax. (N)	1000	1260	1260	2300	2300
Mxmax. (N.m)	44	65	75	170	198
Mymax./Mzmax. (N.m)	52	70	90	191	197

Standard Attachment - Guiding Bracket

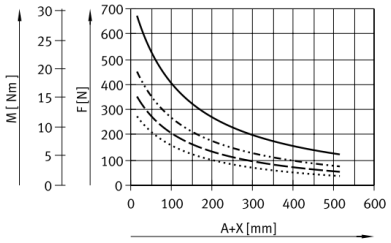
The relationship between maximum payload F and torque M and effective extension distance A



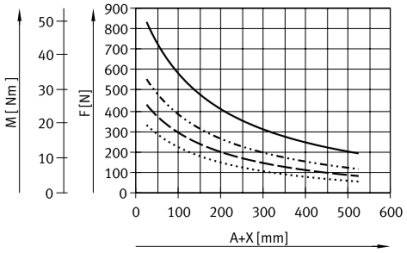


A=Effective extension distance
X=effective distance to the center of the object
S=center of gravity of payload
M=torque

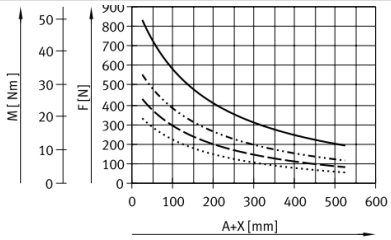
ES40 oriented



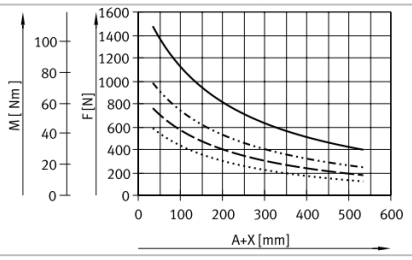
ES50 oriented



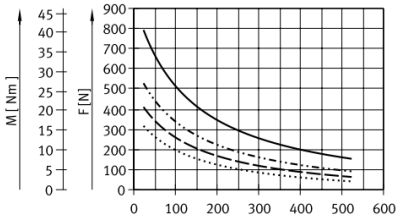
ES63 oriented



ES80 oriented



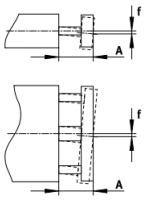
ES100 oriented

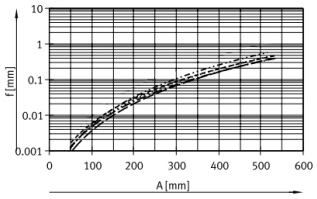


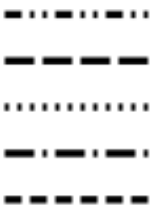


500 kilometer operational performance
2500 kilometers of operational performance
5000 kilometers of operational performance
Operating performance at 10000 kilometers

The functional relationship between f and effective extension distance A

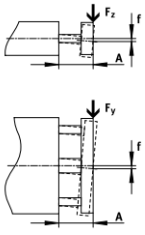


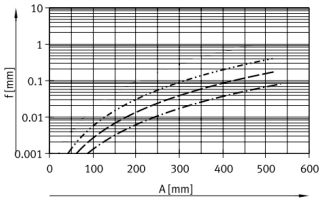




F-ES40DX
F-ES50DX
F-ES63DX
F-ES80DX
F-ES100DX

The functional relationship between f (due to lateral force) and effective extension distance A



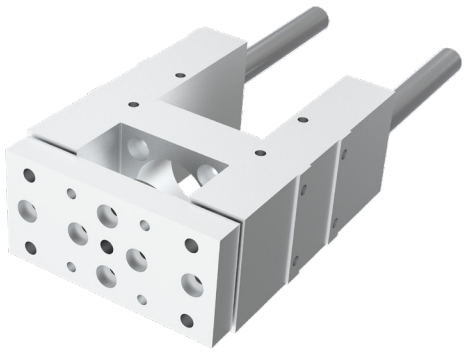




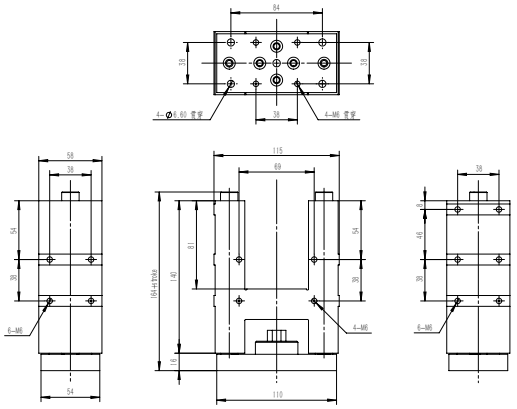
F-ES40DX
F-ES50DX/F-ES63DX
F-ES80DX/F-ES100DX

Accessories-Guide bracket

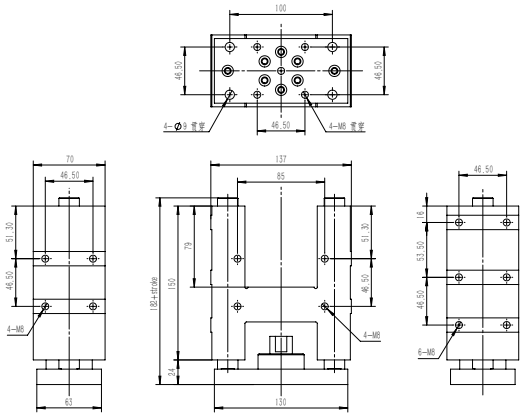
Model	Guide bracket model
ES40	F-ES40DX-stroke
ES50	F-ES50DX-stroke
ES63	F-ES63DX-stroke
ES80	F-ES80DX-stroke
ES100	F-ES100DX-stroke



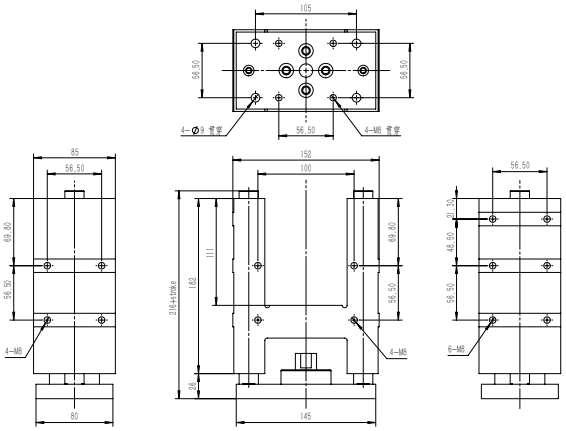
F-ES40DX-stroke



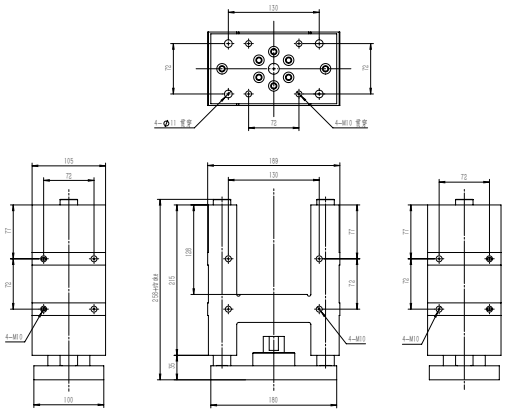
F-ES50DX-stroke



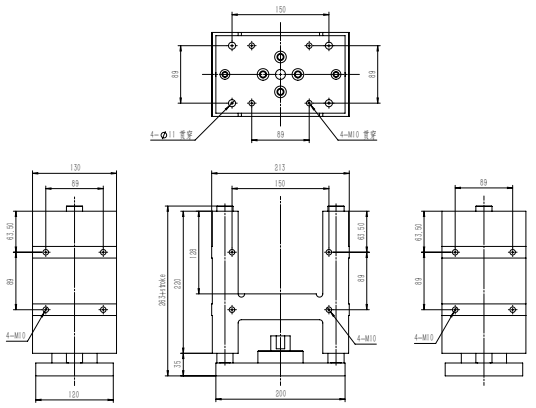
F-ES63DX-stroke



F-ES80DX-stroke

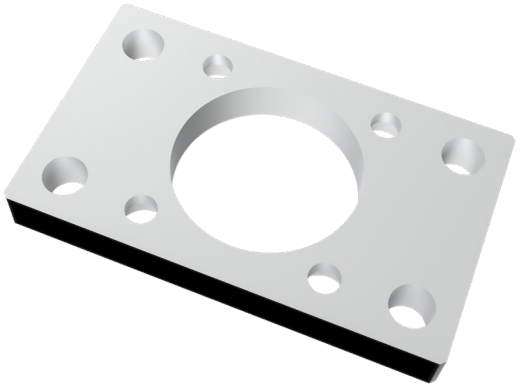


F-ES100DX-stroke

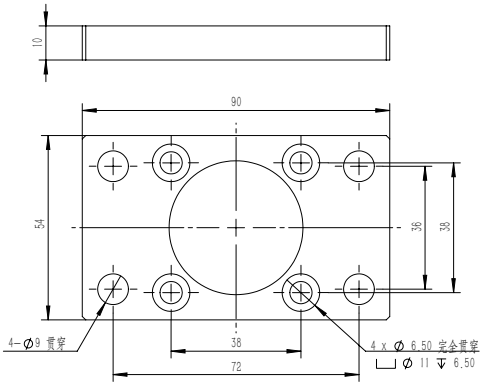


Accessories-Front flange

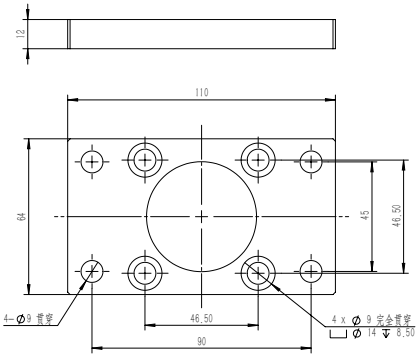
Model	Front flange model
ES40	F-ES40FF
ES50	F-ES50FF
ES63	F-ES63FF
ES80	F-ES80FF
ES100	F-ES100FF



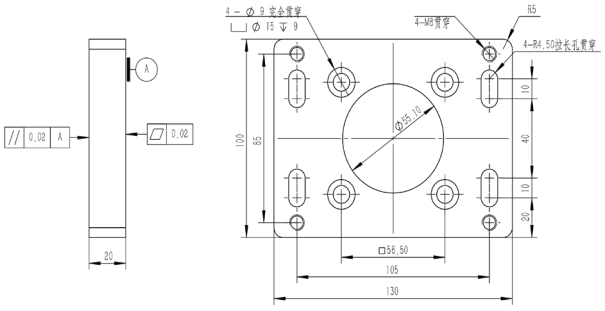
F-ES40FF



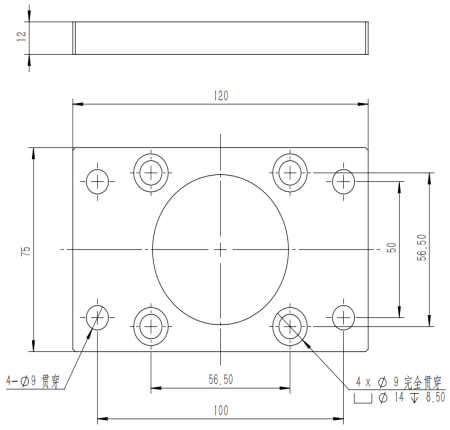
F-ES50FF



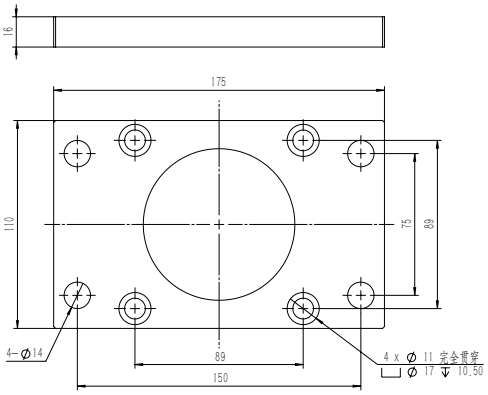
F-ES63FF-YZ



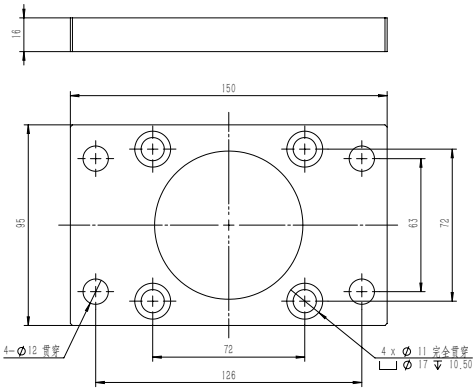
F-ES63FF



F-ES100FF

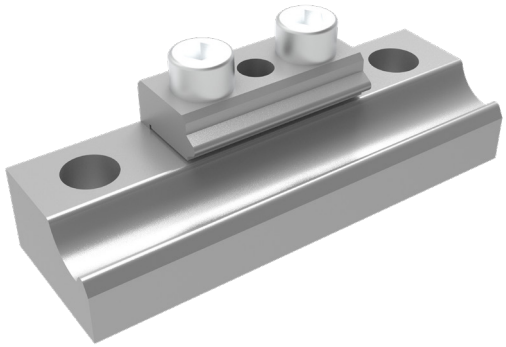


F-ES80FF

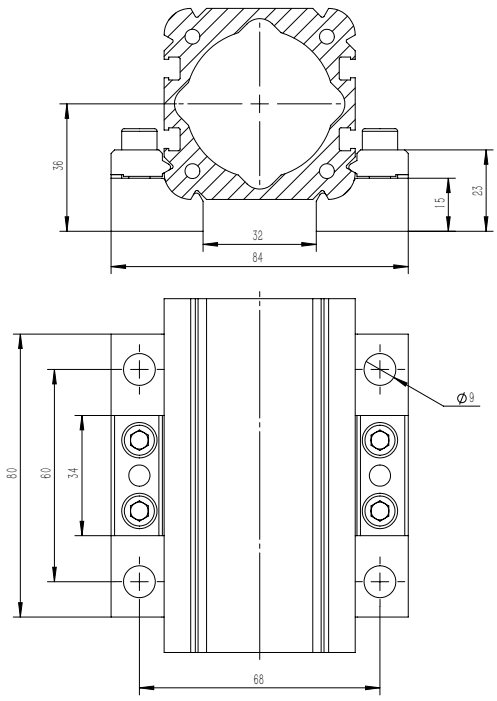


Standard Attachment - Compression Block

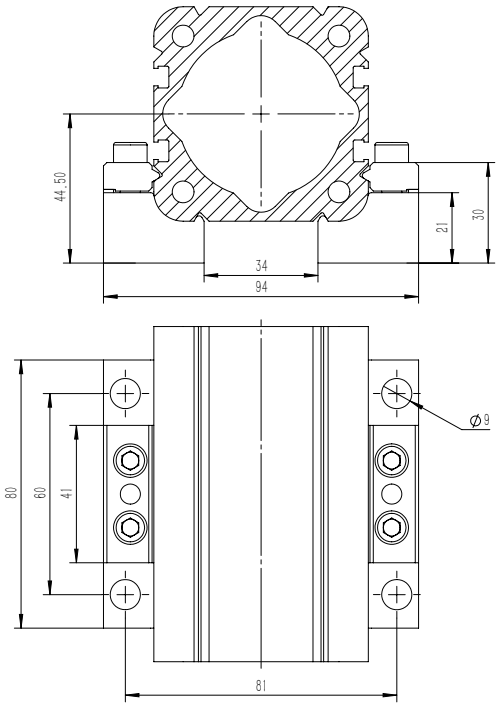
Model	Briquettes model
ES40	F-ES40YK
ES50	F-ES50YK
ES63	F-ES63YK
ES80	F-ES80YK



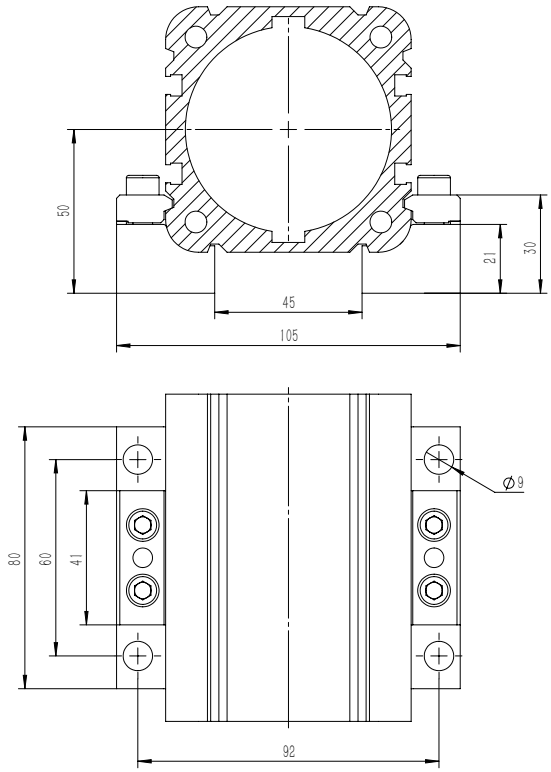
F-ES40YK



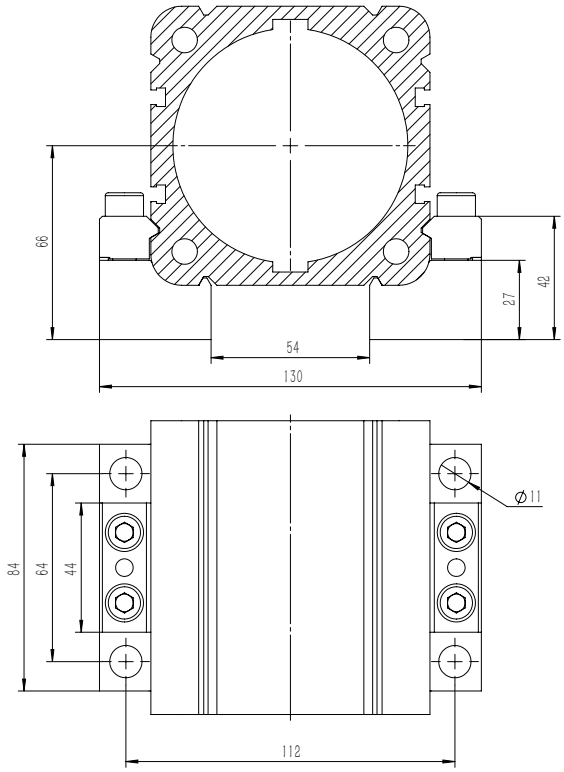
F-ES50YK



F-ES63YK

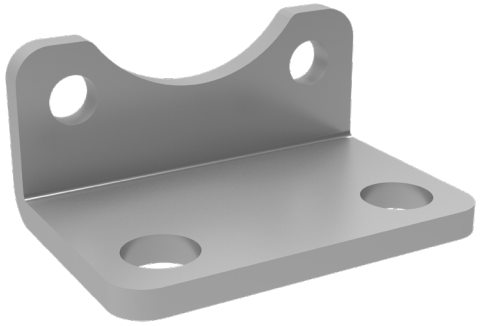


F-ES80YK

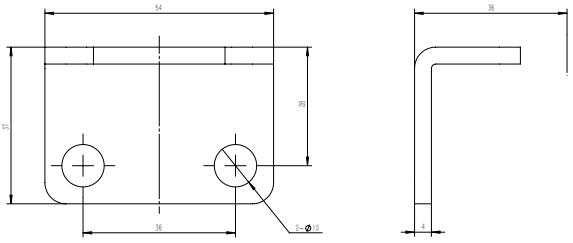


Standard Attachment - Peddle

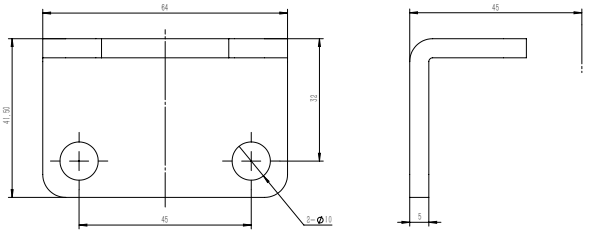
Model	Footstand ordering model
ES40	F-ES40LB
ES50	F-ES50LB
ES63	F-ES63LB
ES80	F-ES80LB
ES100	F-ES100LB



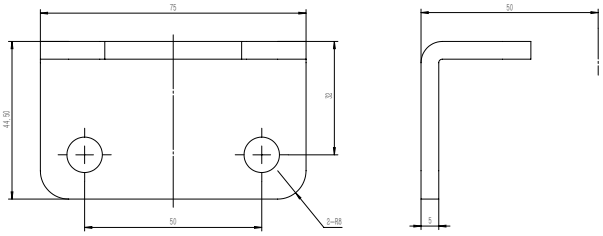
F-ES40LB



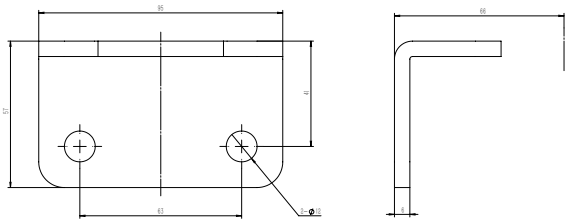
F-ES50LB



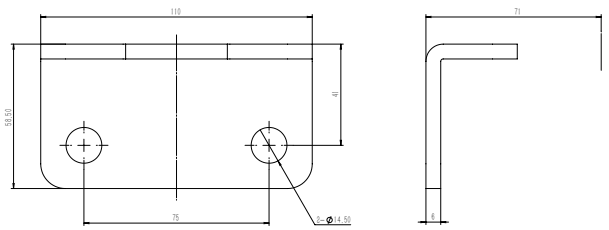
F-ES63LB



F-ES80LB



F-ES100LB



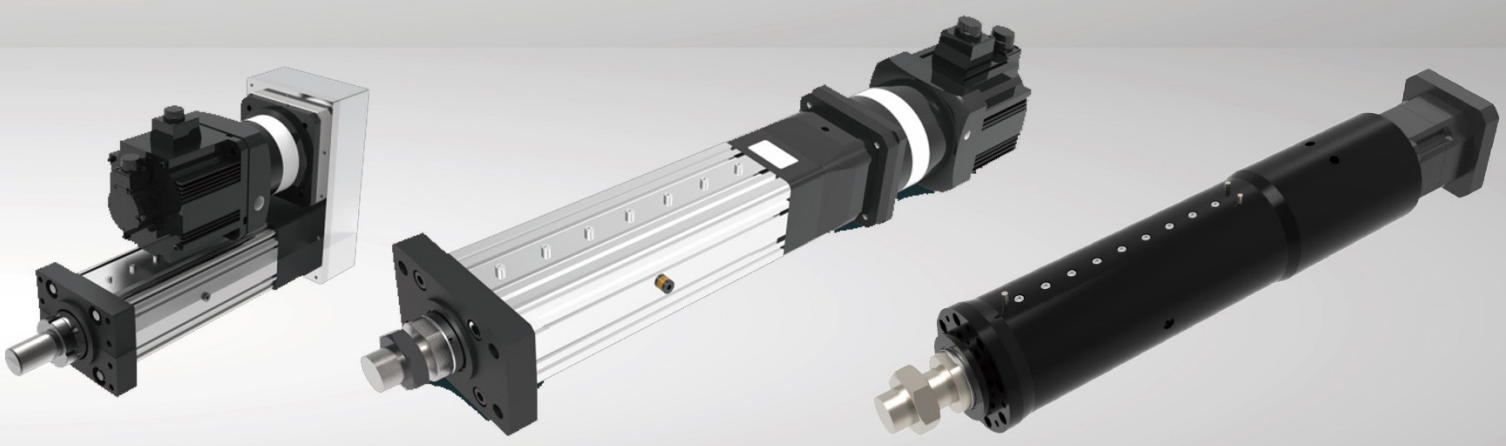
22 A Series heavy-duty electric cylinder

*High precision and high thrust

*Easy installation

*Long service life

*Strong functionality (high repeatability, high speed, adjustable multiple positioning points)



A80-P05

A80 - 350 - P05 - FF - D - P1500W - S3 - FB0001

Model

Stroke
50-600mm

Lead
P10 10mm

Installation
FF:Front flange
LB:Side support

Motor installation
D: Direct
P: Indirect

Motor brand,power.
P:Panasonic 1500W
T:Delta 2000W
M:Mitsubishi 3000W
Y:Yaskawa

Magnetic switch
S1 1 pcs
S2 2 pcs
S3 3 pcs
No No switch

special specification

A80 Parameters



Parameter		
	Repeatable positioning accuracy	±0.02
	Lead	5
	Max speed (mm/s)	166
	Rated load (KN)	15
	Max load (KN)	20
	Standard stroke	50-600mm/50interval
	AC servo motor	1500w/2000w/3000w
	Motor speed (rpm/min)	2000

※1.When the stroke more than 600mm, please contact the manufacturer
※2.For special specifications, please contact the manufacturer

A80 Servo cylinder performance parameter

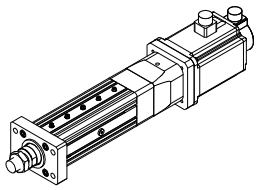
The servo motor speed is 2000rpm/min

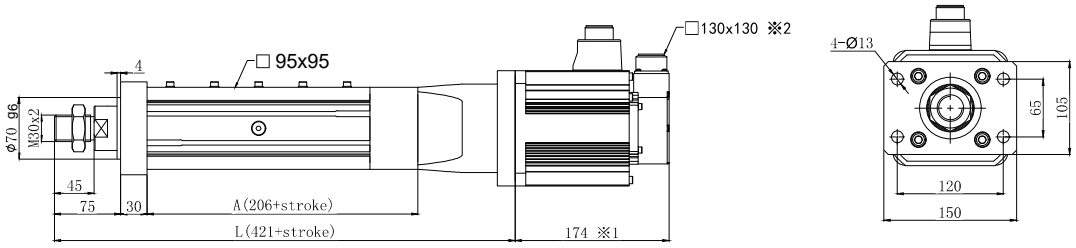
A80	Model	A80- □ -P05- □ - □ -K □ - □ 1500W-S3
	Lead (mm)	5
	Ratio	1
	Rated thrust (KN)	7.6
	Rated speed (mm/s)	166.6

A80	Model	A80- □ -P05- □ - □ -K □ - □ 2000W-S3
	Lead (mm)	5
	Ratio	1
	Rated thrust (KN)	10.0
	Rated speed (mm/s)	166.6

A80	Model	A80- □ -P05- □ - □ -K □ - □ 3000W-S3
	Lead (mm)	5
	Ratio	1
	Rated thrust (KN)	15.0
	Rated speed (mm/s)	166.6

A80-P05-FF-D- ☐ 1500W/2000W/3000W



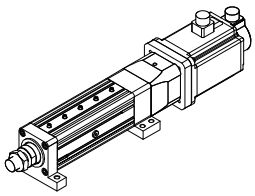


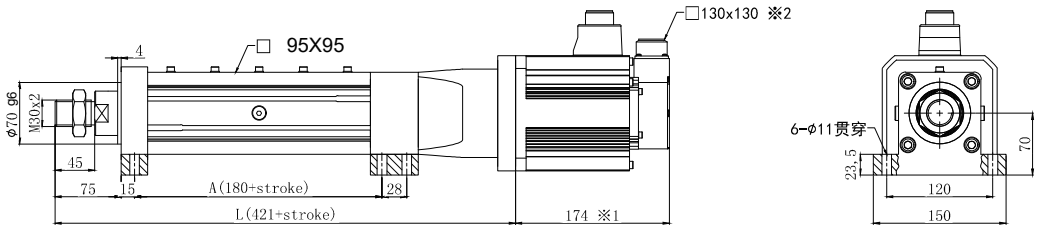
Unit: mm

1: Length varies by motor
2: Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	471	521	571	621	671	721	771	821	871	921	971	1021
A	256	306	356	406	456	506	556	606	656	706	756	806
Weight(kg)	20	21	22	23	24	25	26	27	28	29	30	31

A80-P05-LB-D- ☐ 1500W/2000W/3000W





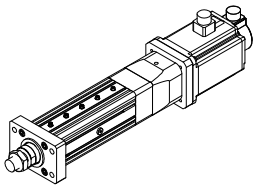
Unit: mm

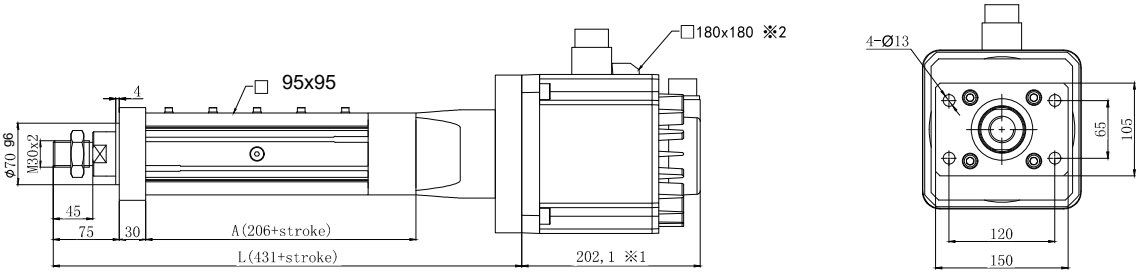
1: Length varies by motor
2: Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	471	521	571	621	671	721	771	821	871	921	971	1021
A	230	280	330	380	430	480	530	580	630	680	730	780
Weight(kg)	21	22	23	24	25	26	27	28	29	30	31	32

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

A80-P05-FF-D- ☐ 3000W



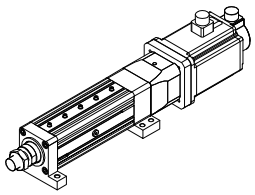


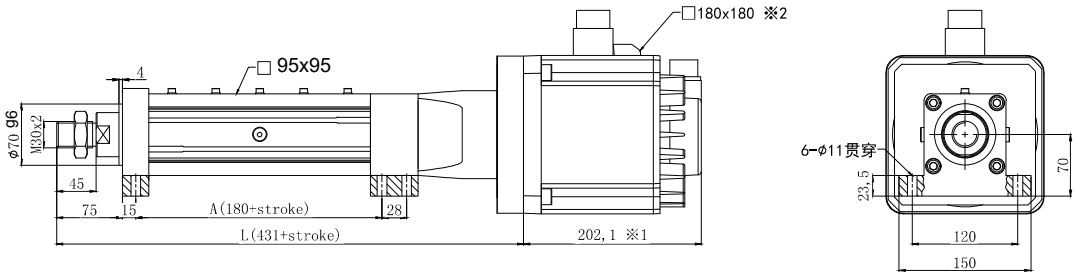
Unit: mm

1: Length varies by motor
2: Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	481	531	581	631	681	731	781	831	881	831	981	1031
A	256	306	356	406	456	506	556	606	656	706	756	806
Weight(kg)	23	24	25	26	27	28	29	30	31	32	33	34

A80-P05-LB-D- ☐ 3000W





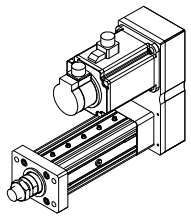
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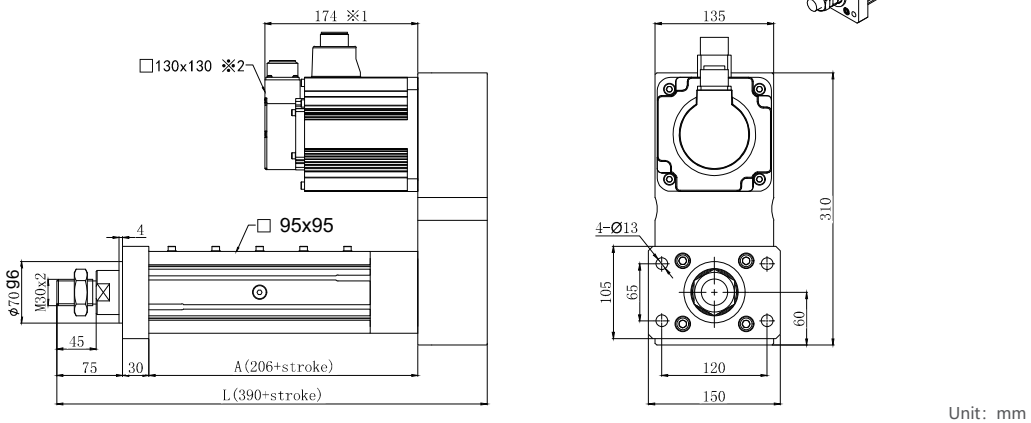
1: Length varies by motor
2: Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	481	531	581	631	681	731	781	831	881	831	981	1031
A	230	280	330	380	430	480	530	580	630	680	730	780
Weight(kg)	24	25	26	27	28	29	30	31	32	33	34	35

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

A80-P05-FF-D- ☐ 1500W/2000W/3000W



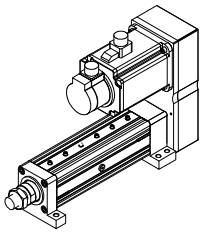


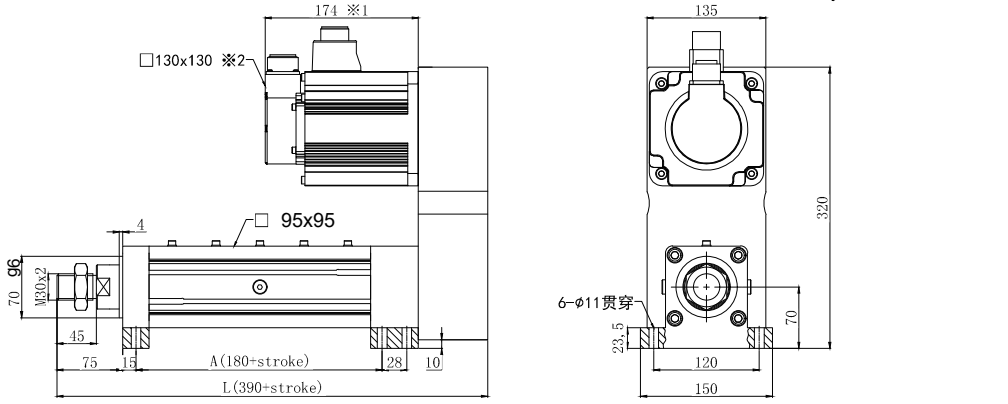
Unit: mm

1: Length varies by motor
2: Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	440	490	540	590	640	690	740	790	840	890	940	990
A	256	306	356	406	456	506	556	606	656	706	756	806
Weight(kg)	23	24	25	26	27	28	29	30	31	32	33	34

A80-P05-LB-D- ☐ 1500W/2000W/3000W





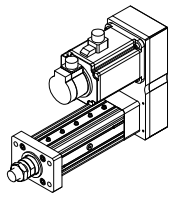
Unit: mm

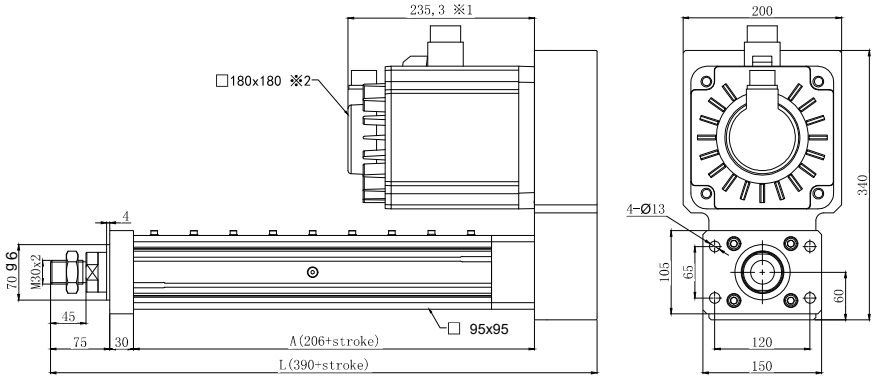
1: Length varies by motor
2: Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	440	490	540	590	640	690	740	790	840	890	940	990
A	230	280	330	380	430	480	530	580	630	680	730	780
Weight(kg)	24	25	26	27	28	29	30	31	32	33	34	35

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

A80-P05-FF-D- □ 3000W



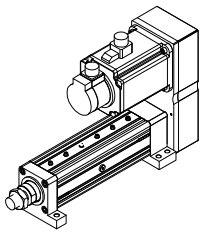


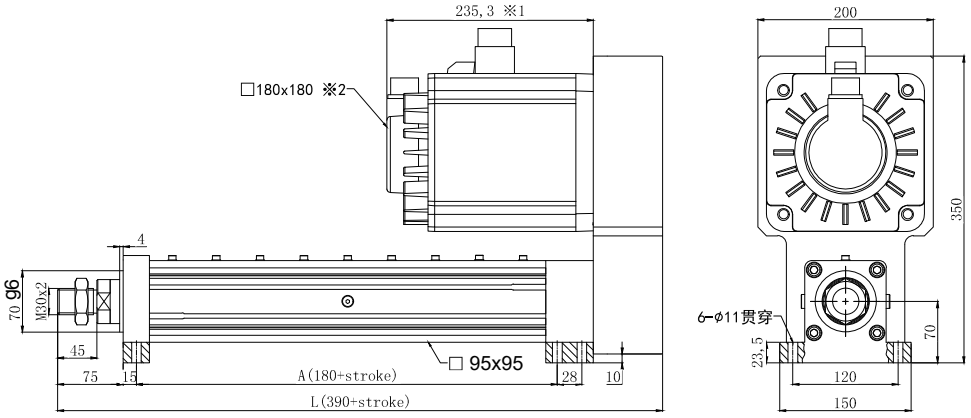
Unit: mm

1: Length varies by motor
2: Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	440	490	540	590	640	690	740	790	840	890	940	990
A	256	306	356	406	456	506	556	606	656	706	756	806
Weight(kg)	28	29	30	31	32	33	34	35	36	37	38	39

A80-P05-LB-D- □ 3000W





Unit: mm

1: Length varies by motor
2: Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	440	490	540	590	640	690	740	790	840	890	940	990
A	230	280	330	380	430	480	530	580	630	680	730	780
Weight(kg)	29	30	31	32	33	34	35	36	37	38	39	40

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

A80-P10

A80 - 350 - P10 - FF - D - K3 - P1500W - S3 - FB0001

Model
A80

Stroke
50-600mm

Lead
P10 10mm

Installation
FF:Front flange
LB:Side support

Motor installation
D:Direct
P:Indirect

Reducer ratio
K3 Ratio 3
K4 Ratio 4
K5 Ratio 5
K8 Ratio 8
K10 Ratio 10
No No reduction ratio

Motor brand,power:
P:Panasonic 1500W
T:Delta 2000W
M:Mitsubishi 3000W
Y:Yaskawa

Magnetic switch
S1 1 pcs
S2 2 pcs
S3 3 pcs
No No switch

Special specification

A80 Parameters



Parameter		
	Repeatable positioning accuracy	±0.02
	Lead	10
	Max speed (mm/s)	333
	Rated load (KN)	30
	Max load (KN)	35
	Standard stroke	50-600mm/50interval
	AC servo motor	1500w/2000w/3000w
	Motor speed (rpm/min)	2000

※1.When the stroke more than 600mm, please contact the manufacturer
※2.For special specifications, please contact the manufacturer

A80 Servo cylinder performance parameter

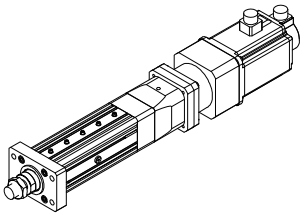
The servo motor speed is 2000rpm/min

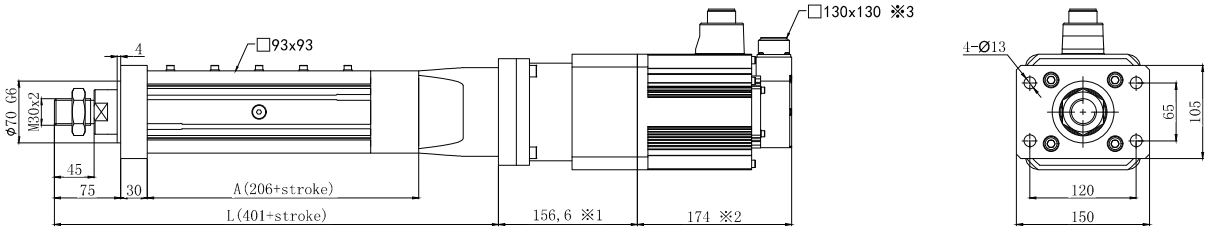
A80	Model	A80- □ -P10- □ - □ -K □ - □ 1500W-S3				
	Lead (mm)	10				
	Ratio	3	4	5	8	10
	Rated thrust (KN)	11.5	15.0	19.0	30.0	38.0
	Rated speed (mm/s)	111.1	83.3	66.6	41.6	33.3

A80	Model	A80- □ -P10- □ - □ -K □ - □ 2000W-S3				
	Lead (mm)	10				
	Ratio	3	4	5	8	10
	Rated thrust (KN)	15.0	20.0	25.5	40.0	51.0
	Rated speed (mm/s)	111.1	83.3	66.6	41.6	33.3

A80	Model	A80- □ -P10- □ - □ -K □ - □ 3000W-S3				
	Lead (mm)	10				
	Ratio	3	4	5	8	10
	Rated thrust (KN)	22.0	30.0	38.0	61.0	76.0
	Rated speed (mm/s)	111.1	83.3	66.6	41.6	33.3

A80-P10-FF-D-K ☐ - ☐ 1500W/2000W/3000W



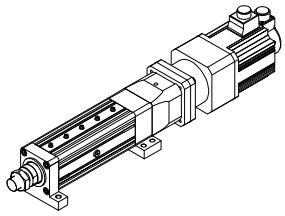


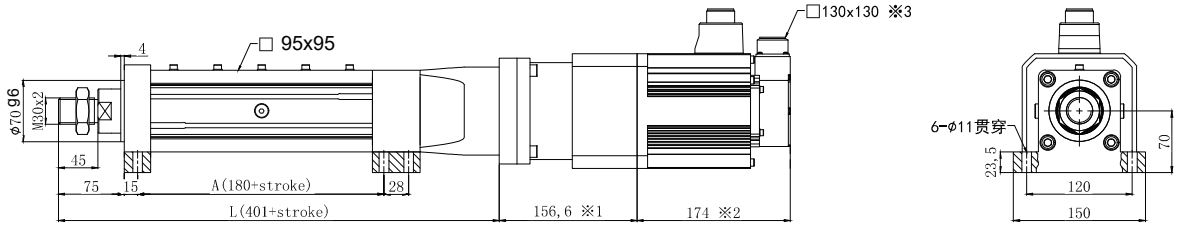
Unit: mm

1: Length varies by motor
2: Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	451	501	551	601	651	701	751	801	851	901	951	1001
A	256	306	356	406	456	506	556	606	656	706	756	806
Weight(kg)	26	27	28	29	30	31	32	33	34	35	36	37

A80-P10-LB-D-K ☐ - ☐ 1500W/2000W/3000W





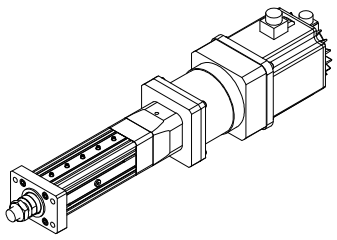
Unit: mm

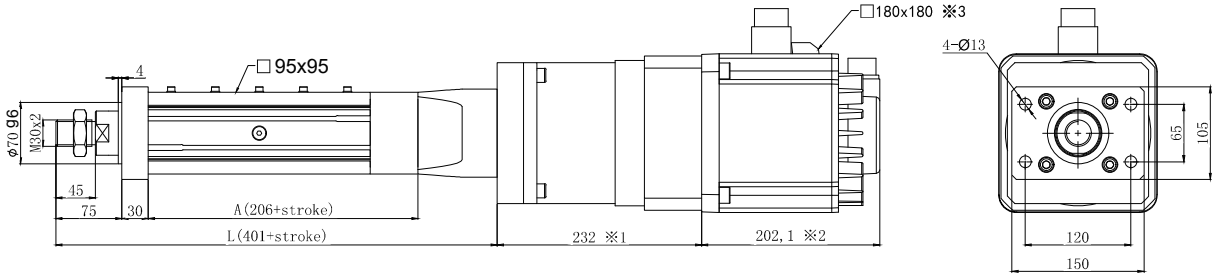
1: Length varies by motor
2: Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	451	501	551	601	651	701	751	801	851	901	951	1001
A	230	280	330	380	430	480	530	580	630	680	730	780
Weight(kg)	27	28	29	30	31	32	33	34	35	36	37	38

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

A80-P10-FF-D-K ☐ - ☐ 3000W



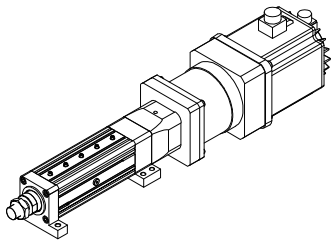


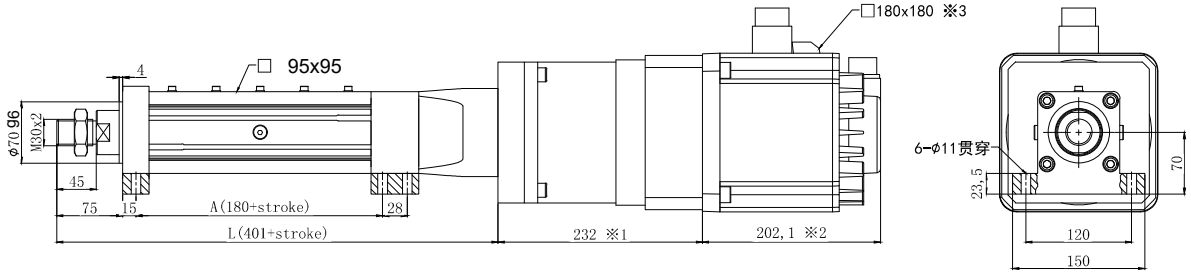
Unit: mm

1.The user specifies other brands of reducers, and the length varies according to the reducer
2.Length varies by motor
3.Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	451	501	551	601	651	701	751	801	851	901	951	1001
A	256	306	356	406	456	506	556	606	656	706	756	806
Weight(kg)	41	42	43	44	45	46	47	48	49	50	51	52

A80-P10-LB-D-K ☐ - ☐ 3000W





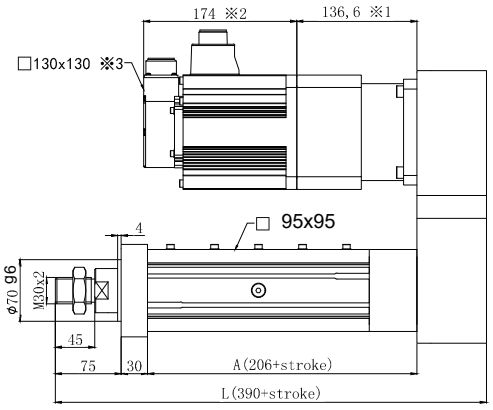
Unit: mm

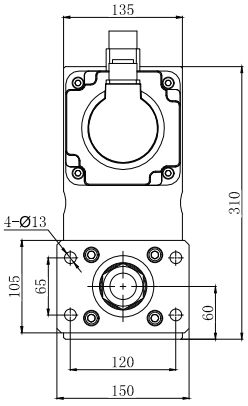
1.The user specifies other brands of reducers, and the length varies according to the reducer
2.Length varies by motor
3.Applicable motor dimensions 130mm*130mm

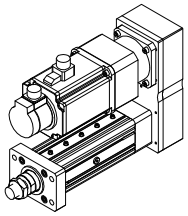
Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	451	501	551	601	651	701	751	801	851	901	951	1001
A	230	280	330	380	430	480	530	580	630	680	730	780
Weight(kg)	42	43	44	45	46	47	48	49	50	51	52	53

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

A80-P10-FF-P-K ☐ - ☐ 1500W/2000W/3000W





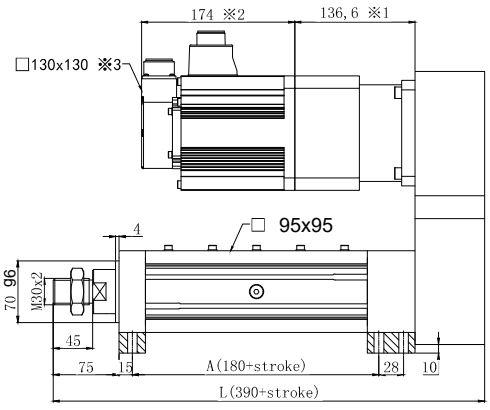


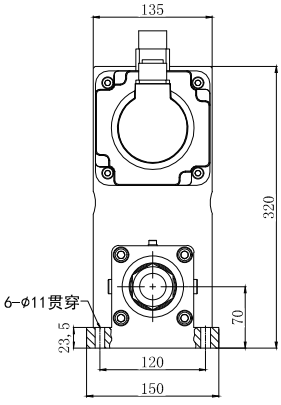
Unit: mm

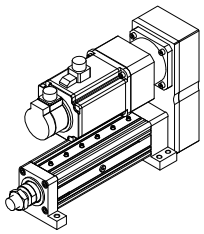
1.The user specifies other brands of reducers, and the length varies according to the reducer
2.Length varies by motor
3.Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	440	490	540	590	640	690	740	790	840	890	940	990
A	256	306	356	406	456	506	556	606	656	706	756	806
Weight(kg)	29	30	31	32	33	34	34	35	36	37	38	39

A80-P10-LB-P-K ☐ - ☐ 1500W/2000W/3000W







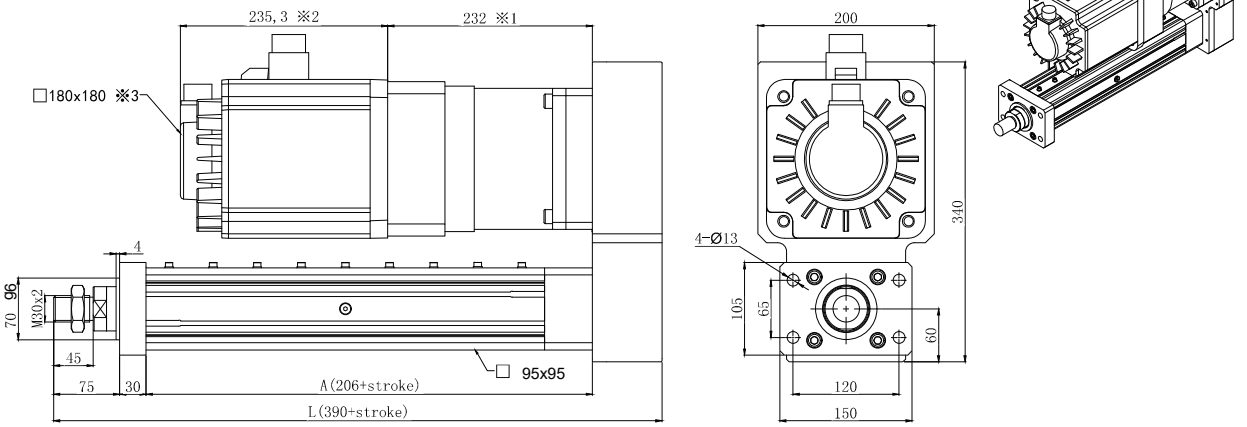
Unit: mm

1.The user specifies other brands of reducers, and the length varies according to the reducer
2.Length varies by motor
3.Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	440	490	540	590	640	690	740	790	840	890	940	990
A	230	280	330	380	430	480	530	580	630	680	730	780
Weight(kg)	30	31	32	33	34	34	35	36	37	38	39	40

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

A80-P10-FF-P-K ☐ - ☐ 3000W

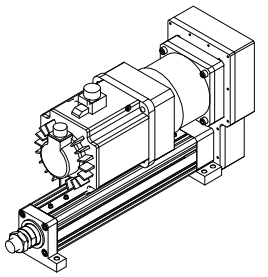


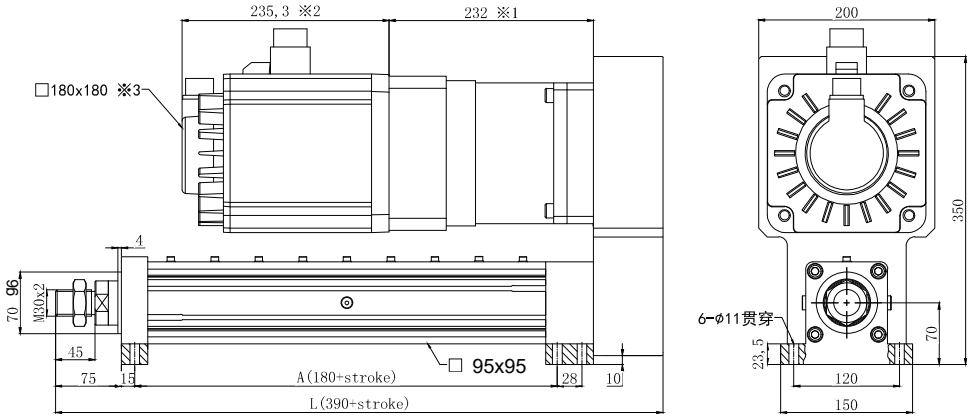
Unit: mm

1.The user specifies other brands of reducers, and the length varies according to the reducer
2.Length varies by motor
3.Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	440	490	540	590	640	690	740	790	840	890	940	990
A	256	306	356	406	456	506	556	606	656	706	756	806
Weight(kg)	46	47	48	49	50	51	52	53	54	55	56	57

A80-P10-LB-P-K ☐ - ☐ 3000W





Unit: mm

1.The user specifies other brands of reducers, and the length varies according to the reducer
2.Length varies by motor
3.Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	440	490	540	590	640	690	740	790	840	890	940	990
A	230	280	330	380	430	480	530	580	630	680	730	780
Weight(kg)	47	48	49	50	51	52	53	54	55	56	57	58

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

A125

A125 - 350 - P10 - FF - D - K3 - P1500W - S3 - FB0001

Model

Stroke
50-600mm

Lead
P10 10mm

Installation
FF:Front flange
LB:Side support

Motor installation
D:Direct
P:Indirect

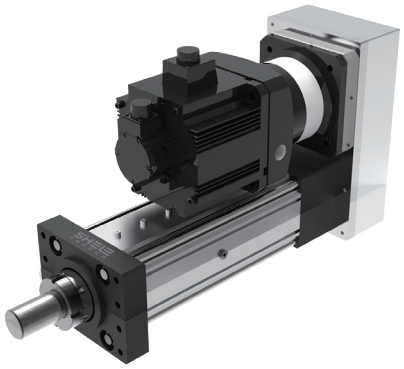
Reducer ratio
K3 Ratio 3
K4 Ratio 4
K5 Ratio 5
K8 Ratio 8
K10 Ratio 10
No No reduction ratio

Motor brand,power:
P:Panasonic 1500W
T:Delta 2000W
M:Mitsubishi 3000W
Y:Yaskawa

Magnetic switch
S1 1 pcs
S2 2 pcs
S3 3 pcs
No No switch

Special specification

A125 Parameters



Parameter		
	Repeatable positioning accuracy	±0.02
	Lead	10
	Max speed (mm/s)	333
	Rated load (KN)	50
	Max load (KN)	60
	Standard stroke	50-600mm/50interval
	AC servo motor	1500w/2000w/3000w/ 3500w/4000w
	Motor speed (rpm/min)	2000

※1.When the stroke more than 600mm, please contact the manufacturer
※2.For special specifications, please contact the manufacturer

A125 Servo cylinder performance parameter

The servo motor speed is 2000rpm/min

A125	Model	A125- □ -P10- □ - □ -K □ - □ 1500W-S3				
	Lead (mm)	10				
	Ratio	3	4	5	8	10
	Rated thrust (KN)	11.5	15.0	19.0	30.0	38.0
	Rated speed (mm/s)	111.1	83.3	66.6	41.6	33.3

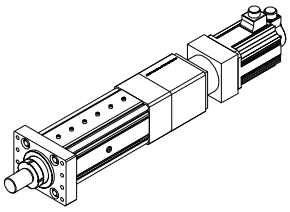
A125	Model	A125- □ -P10- □ - □ -K □ - □ 2000W-S3				
	Lead (mm)	10				
	Ratio	3	4	5	8	10
	Rated thrust (KN)	15.0	20.0	25.5	40.0	51.0
	Rated speed (mm/s)	111.1	83.3	66.6	41.6	33.3

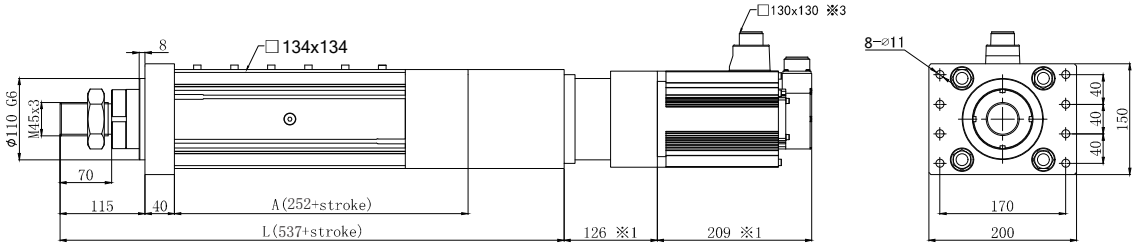
A125	Model	A125- □ -P10- □ - □ -K □ - □ 3000W-S3				
	Lead (mm)	10				
	Ratio	3	4	5	8	10
	Rated thrust (KN)	22.0	30.0	38.0	60.0	76.0
	Rated speed (mm/s)	111.1	83.3	66.6	41.6	33.3

A125	Model	A125- □ -P10- □ - □ -K □ - □ 3500W-S3				
	Lead (mm)	10				
	Ratio	3	4	5	8	10
	Rated thrust (KN)	26.0	35.0	44.0	70.0	89.0
	Rated speed (mm/s)	111.1	83.3	66.6	41.6	33.3

A125	Model	A125- □ -P10- □ - □ -K □ - □ 4000W-S3				
	Lead (mm)	10				
	Ratio	3	4	5	8	10
	Rated thrust (KN)	30.0	40.0	50.0	81.0	100.0
	Rated speed (mm/s)	111.1	83.3	66.6	41.6	33.3

A125-P10-FF-D-K ☐ - ☐ 1500W/2000W/3000W



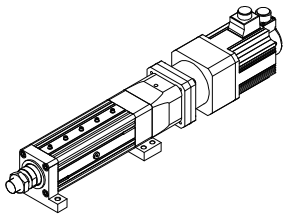


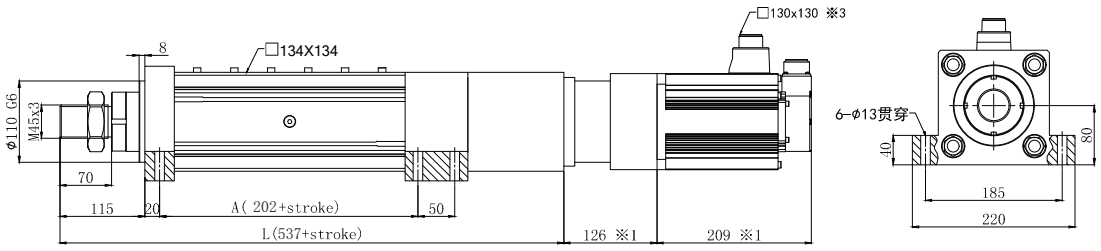
Unit: mm

1.The user specifies other brands of reducers, and the length varies according to the reducer
2.Length varies by motor
3.Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	587	637	687	737	787	837	887	937	987	1037	1087	1137
A	302	352	402	452	502	552	602	652	702	752	802	852
Weight(kg)	57	59.5	62	64.5	67	69.5	72	74.5	77	79.5	82	84.5

A125-P10-LB-D-K ☐ - ☐ 1500W/2000W/3000W





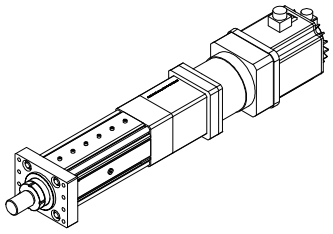
Unit: mm

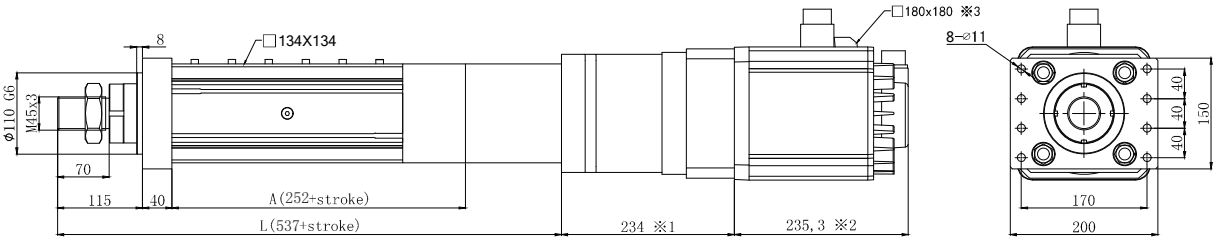
1.The user specifies other brands of reducers, and the length varies according to the reducer
2.Length varies by motor
3.Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	587	637	687	737	787	837	887	937	987	1037	1087	1137
A	252	302	3523	402	452	502	552	602	652	702	752	802
Weight(kg)	59	61.5	64	66.5	69	71.5	74	76.5	79	81.5	84	86.5

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

A125-P10-FF-D-K ☐ - ☐ 3000W/3500W/4000W



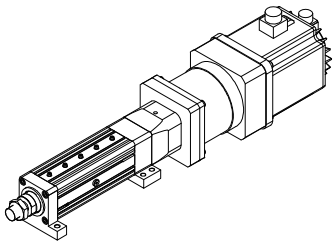


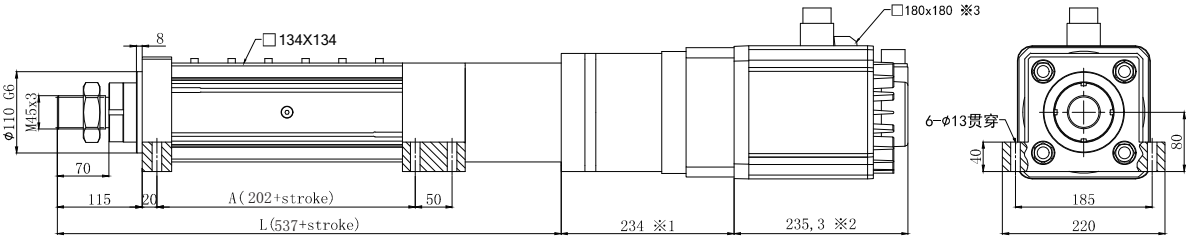
Unit: mm

1.The user specifies other brands of reducers, and the length varies according to the reducer
2.Length varies by motor
3.Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	587	637	687	737	787	837	887	937	987	1037	1087	1137
A	302	352	402	452	502	552	602	652	702	752	802	852
Weight(kg)	70.5	73	75.5	78	80.5	83	85.5	88	90.5	93	95.5	98

A125-P10-LB-D-K ☐ - ☐ 3000W/3500W/4000W





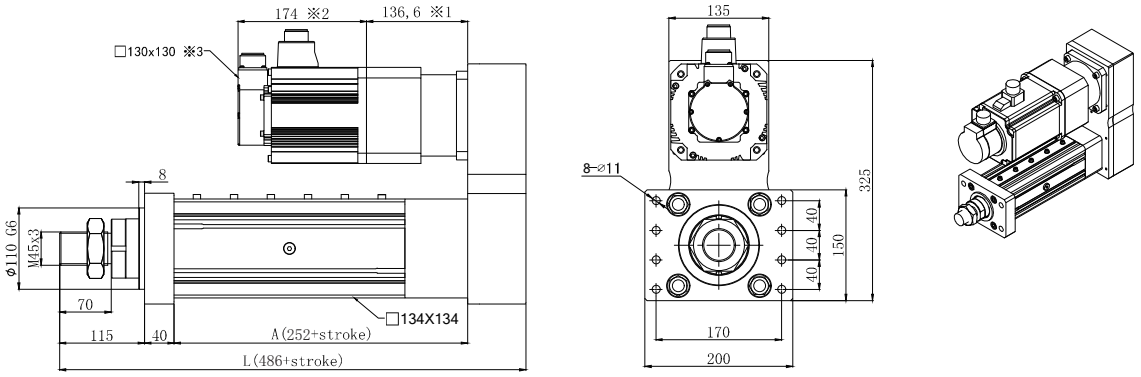
Unit: mm

1.The user specifies other brands of reducers, and the length varies according to the reducer
2.Length varies by motor
3.Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	587	637	687	737	787	837	887	937	987	1037	1087	1137
A	252	302	3523	402	452	502	552	602	652	702	752	802
Weight(kg)	72.5	75	77.5	80	82.5	85	87.5	90	92.5	95	97.5	100

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

A125-P10-FF-P-K ☐ - ☐ 1500W/2000W/3000W

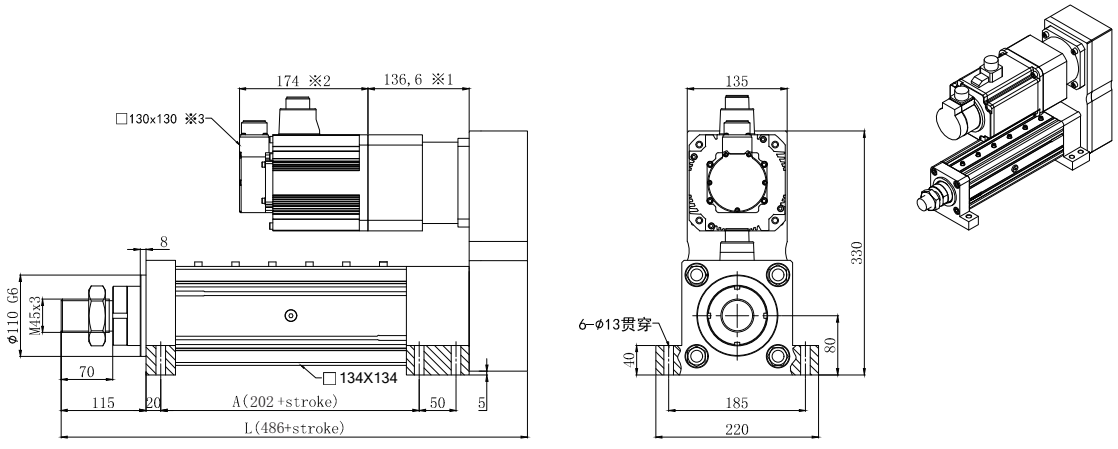


Unit: mm

1.The user specifies other brands of reducers, and the length varies according to the reducer
2.Length varies by motor
3.Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	536	586	636	686	736	786	836	886	936	986	1036	1086
A	302	352	402	452	502	552	602	652	702	752	802	852
Weight(kg)	55	57.5	60	62.5	65	67.5	70	72.5	75	77.5	80	82.5

A125-P10-LB-P-K ☐ - ☐ 1500W/2000W/3000W



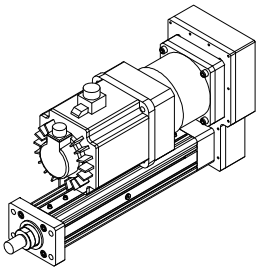
Unit: mm

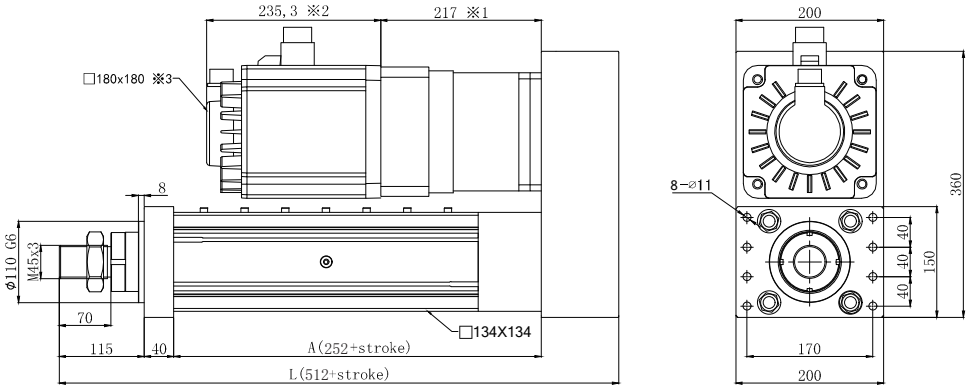
1.The user specifies other brands of reducers, and the length varies according to the reducer
2.Length varies by motor
3.Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	536	586	636	686	736	786	836	886	936	986	1036	1086
A	252	302	3523	402	452	502	552	602	652	702	752	802
Weight(kg)	57	59.5	62	64.5	67	69.5	72	74.5	77	79.5	82	84.5

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

A125-P10-FF-P-K ☐ - ☐ 3000W/3500W/4000W



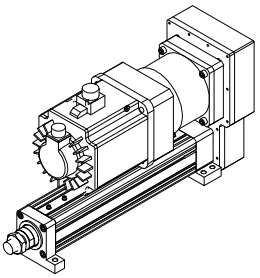


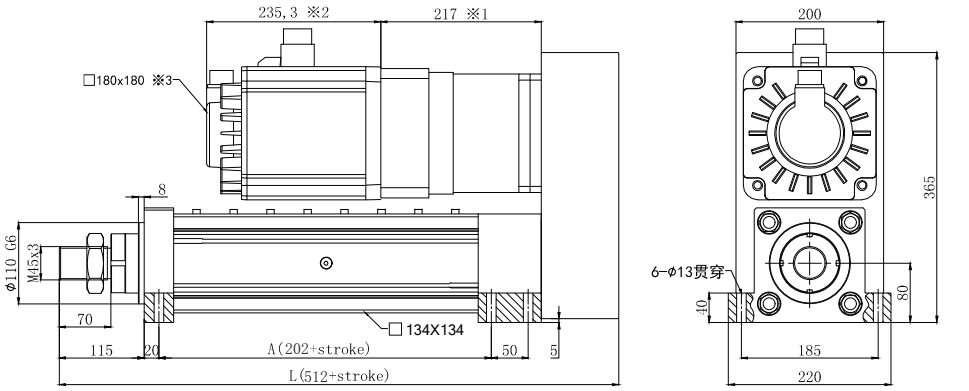
Unit: mm

1.The user specifies other brands of reducers, and the length varies according to the reducer
2.Length varies by motor
3.Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	562	612	662	712	762	812	862	912	962	1012	1062	1112
A	302	352	402	452	502	552	602	652	702	752	802	852
Weight(kg)	75	77.5	80	82.5	85	87.5	90	92.5	95	97.5	100	102.5

A125-P10-LB-P-K ☐ - ☐ 3000W/3500W/4000W





Unit: mm

1.The user specifies other brands of reducers, and the length varies according to the reducer
2.Length varies by motor
3.Applicable motor dimensions 130mm*130mm

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	562	612	662	712	762	812	862	912	962	1012	1062	1112
A	252	302	3523	402	452	502	552	602	652	702	752	802
Weight(kg)	77	79.5	82	84.5	87	89.5	92	94.5	97	99.5	102	104.5

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

A140

A140 - 100 - P20 - D - K3 - M7K - S3

Model

Stroke
50-600mm
Note: 50 interval

Lead
P20:20mm

Motor installation
D:Direct
P:Indirect

Reducer ratio
One paragraph: 3、4、5、7、10
Two paragraph:15、20、25、30、50、75、100
The specific speed ratio shall be subject to the actual gearbox

Motor brand,power:
P:Panasonic
T:Delta
M:Mitsubishi
Y:Yaskawa

Magnetic switch
SN:N switches
No:No switch

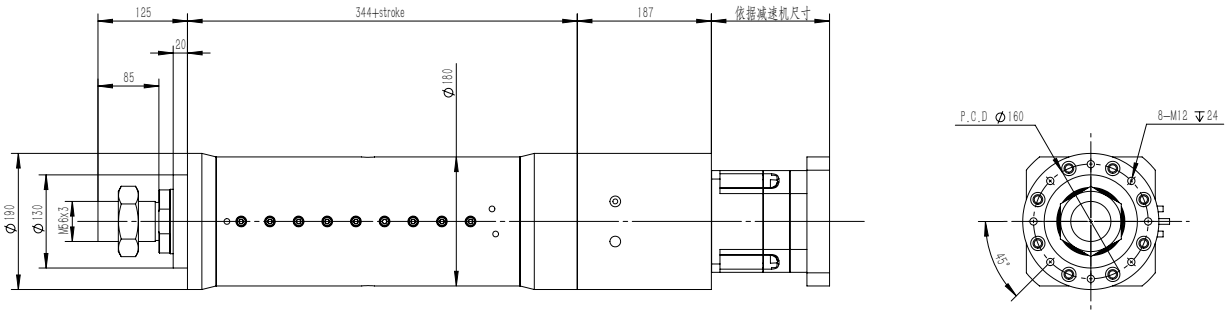
A140 Parameters

Motor output (W)	7000W				
Rated speed (rpm)	2000				
Rated torque (Nm)	33.4				
Max allowable input torque (Nm)	380				
Screw grade	C7 Rolling				
Repeatable positioning accuracy (mm)	±0.02				
Piston rod rotation angle (°)	±0.5				
Lead (mm)	20				
Standard reducer specification	140				
Reducer ratio	3	4	5	7	10
Rated thrust (N)	26700	35700	44600	62400	89200
Max thrust in the axial direction (N)	100000				
Max speed (mm/s)	222.2	166.6	133.3	95.2	66.6
Stroke range (mm)	0-600				
Basic weight 0mm stroke (kg)	99				
Weight added per 100mm (kg)	12				



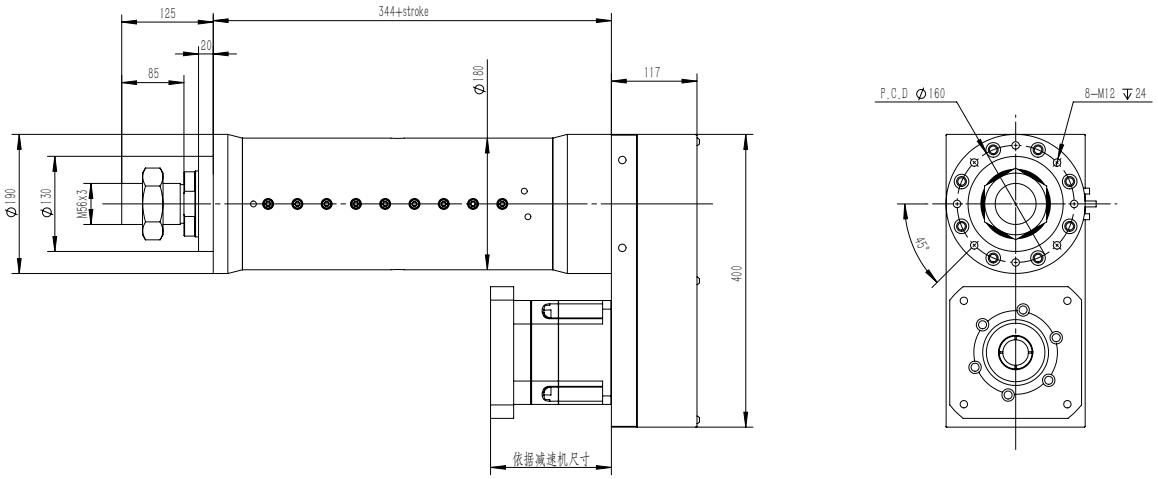
A140-D

Unit: mm



A140-P

Unit: mm



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

A180

A180 - 100 - P20 - D - K3 - M11K - S3

Model

Stroke
50-600mm
Note: 50 interval

Lead
P20:20mm

Motor installation
D:Direct
P:Indirect

Reducer ratio
One paragraph: 3、4、5、 7、 10
Two paragraph:15、20、25、30、50、75、100
The specific speed ratio shall be subject to the actual gearbox

Motor brand,power:
P:Panasonic
T:Delta
M:Mitsubishi
Y:Yaskawa

Magnetic switch
SN:N switches
No:No switch

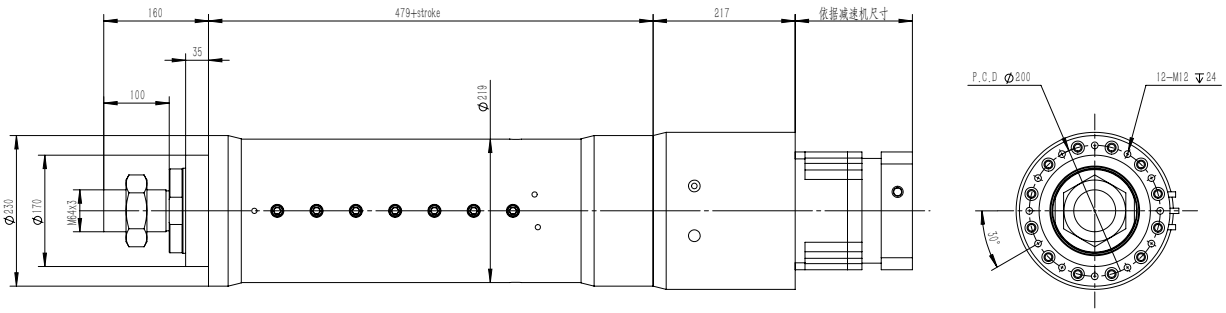
A180 Parameters

Motor output (W)	11000W				
Rated speed (rpm)	1500				
Rated torque (Nm)	70				
Max allowable input torque (Nm)	750				
Screw grade	C7rolling				
Repeatable positioning accuracy(mm)	±0.02				
Piston rod rotation angle (°)	±0.5				
Lead (mm)	20				
Standard reducer specification	180				
Reducer ratio	3	4	5	7	10
Rated thrust (N)	52800	70000	88000	123000	176000
Max thrust in the axial direction (N)	200000				
Max speed (mm/s)	133.3	100	80	57.1	40
Stroke range (mm	0-600				
Basic weight 0mm stroke (kg)	172				
Weight added per 100mm (kg)	18				



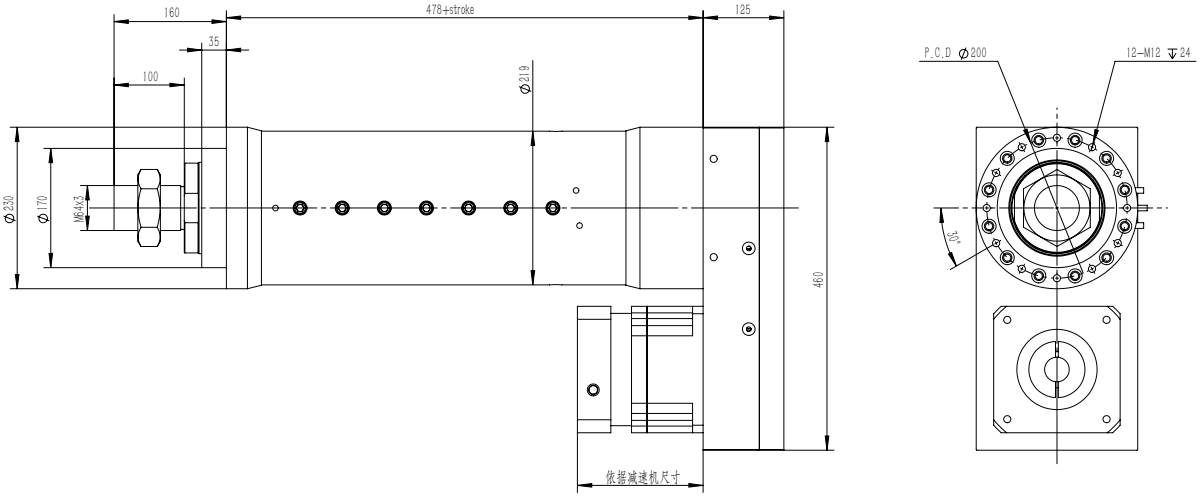
A180-D

Unit: mm



A180-P

Unit: mm

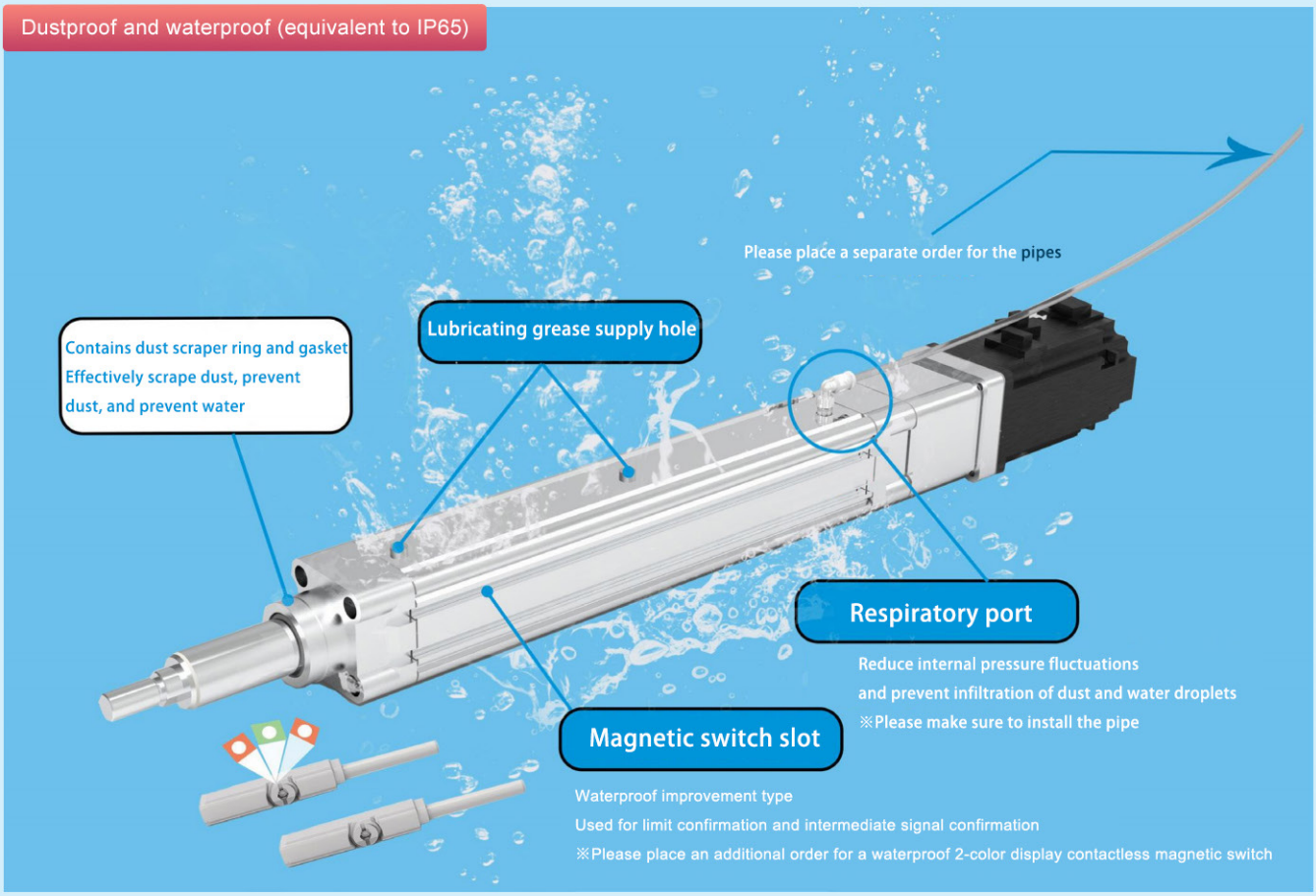


This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

23 ESIP series waterproof cylinder

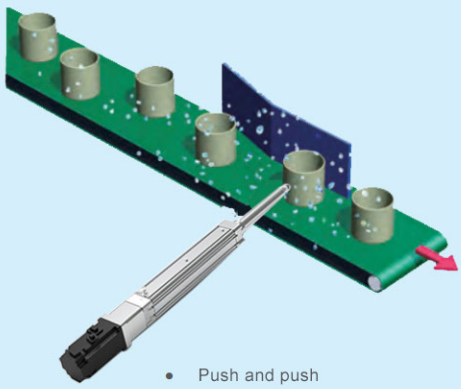


Dustproof and waterproof (equivalent to IP65)

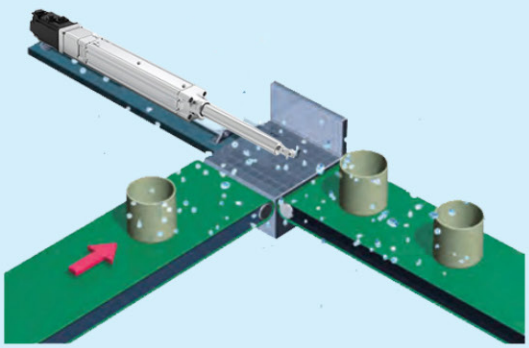


- The maximum travel can correspond to 500mm※

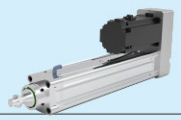
※Exceeding 300mm of travel will cause screw deflection



- Push and push



- Launch

ESIP Series	Protection grade	Size		Motor configuration
		Stepper motor (with encoder DC24V) Servo motor (DC24V)	AC servo motor	
	IP65 is equivalent	28 42 57	200W 400W 750W	Linear installation type
	IP65 is equivalent	28 42 57	200W 400W 750W	Folding type

ESIP40

ESIP40	-	100-	P10	-	D	-	M	20	-	S3
Model		Strokemm	Lead		Motor installation		Motor brand	Motor		Switches

Strokemm: 50-800mm, Note: 50mminterval

Lead: P05: 5mm; P10: 10mm; P20: 20mm

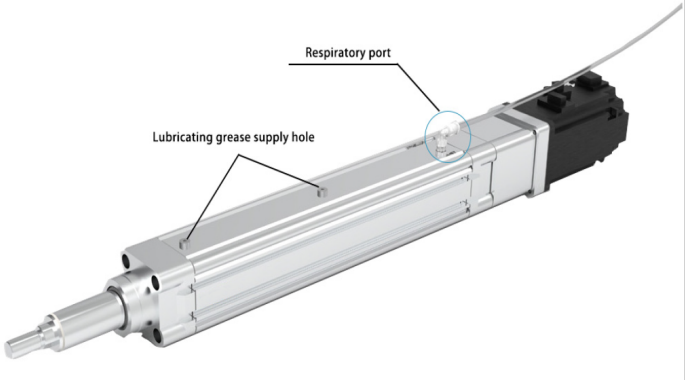
Motor installation: D: Direct mount; P: Indirectinstallation; None: Bare cylinder vacancy

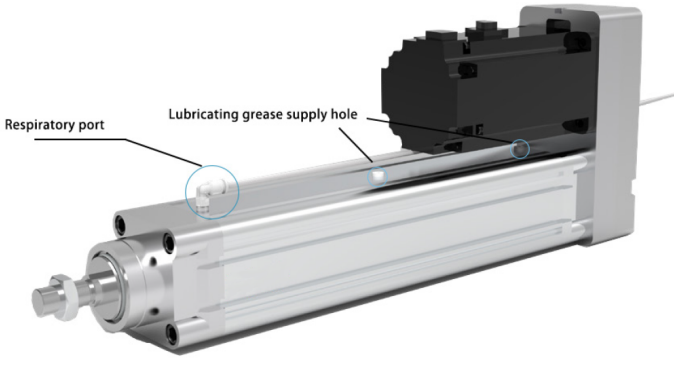
Motor brand: M: Mitsubishi; P: Panasonic; Y: Yaskawa; T: Delta

Motor: 10 -; 20 200W; 40 400W; 75 -; None: Barecylindervacancy

Switches: Sn: N switches (two-wire system)

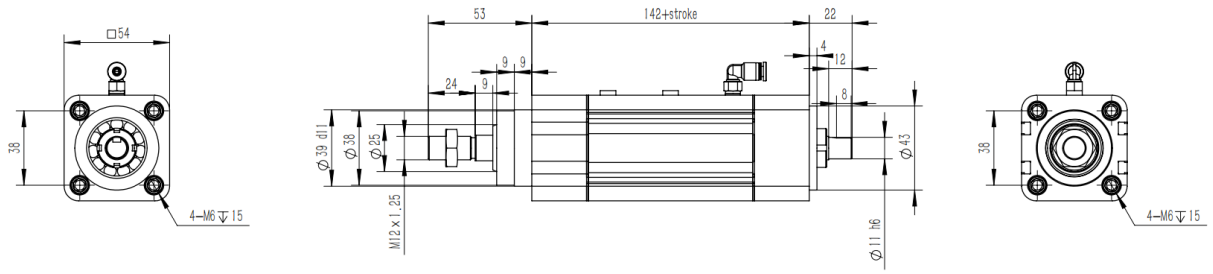
Standard motoroutput (W)	200W/400W		
Torque(Nm)	0.64/1.27		
Maximum allowableinputtorque (Nm)	9		
Screw grade	C7 conversion (slenderratio 1:62.5)		
Repetitivepositioning accuracy (mm)	±0.02		
Rotation angleofpiston rod (°)	±0.5		
Lead (mm)	5	10	20
Ratedoutput (N)	720/1440	360/720	180/360
Maximum allowableaxial statictthrustforce (N)	3040	2890	2400
Maximum speed (mm/s)	250	500	1000
Travelrange (mm)	0-800		
Electriccylinderbody 0mm stroke mass (kg)	1.6		
The mass oftheelectriccylinder increases every 100mm stroke (kg)	0.61		
Mass ofcomponents directlyinstalledon the motor (kg)	0.3		
Mass ofcomponents relatedtoindirectinstallation of motors (kg)	0.6		
sensor	CS1-D-2M-IP65	Electronic magnetic switch (waterproof),withawirelengthof 2 meters	
Protection grade	IP65	rated motoravailableforpurchase	





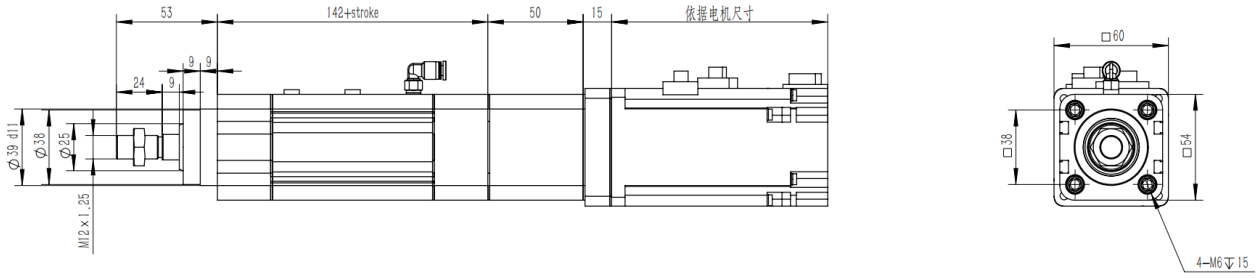
ESIP40-Barecylinder

Unit:mm



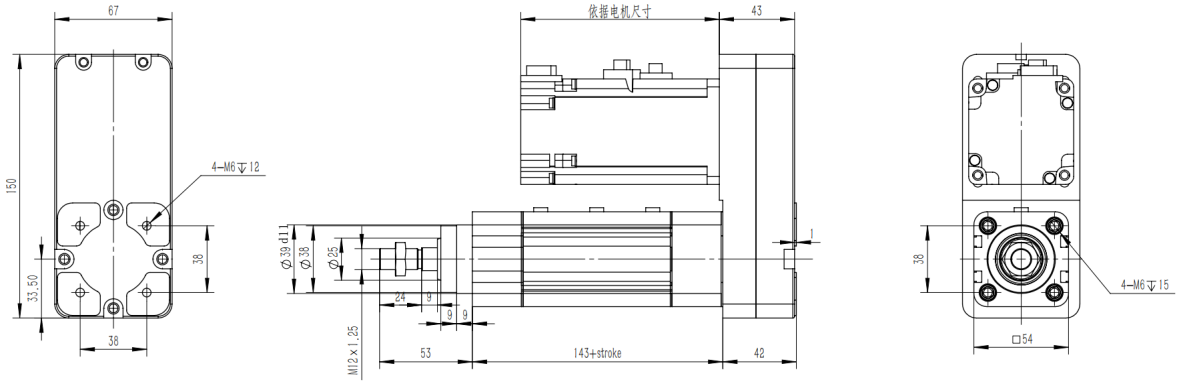
ESIP40-D

Unit:mm



ESIP40-P

Unit:mm



This drawing is for reference only, and the actual dimensions are subject to the 2D and 3D drawings provided. Changes in product style, appearance, and specifications will not be notified separately.

ESIP50

ESIP50	-	100-	P10	-	D	-	M	40	-	S3
Model		Stroke mm	Lead		Motor installation		Motor brandMotor			Switches

50-1000mm
Note：50mm interval

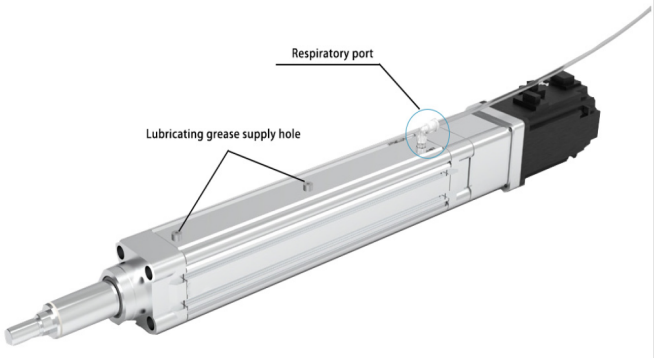
P05：5mm
P10: 10mm
P20: 20mm

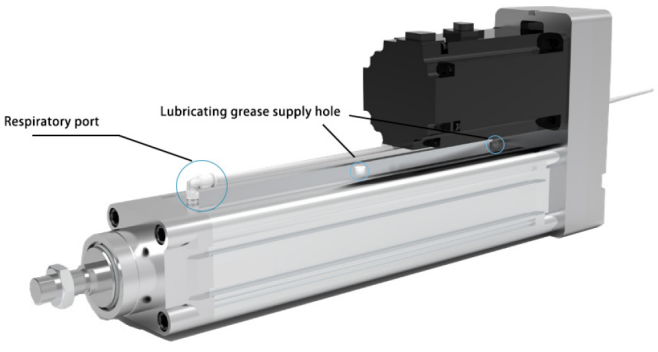
D：Direct mount
P：Indirectinstallation
None: Bare cylinder vacancy

M：Mitsubishi 10 -
P：Panasonic 20
Y:Yaskawa 40 400W
T：Delta 75 750W
None: Barecylindervacancy

Sn: N switches (two-wire system)

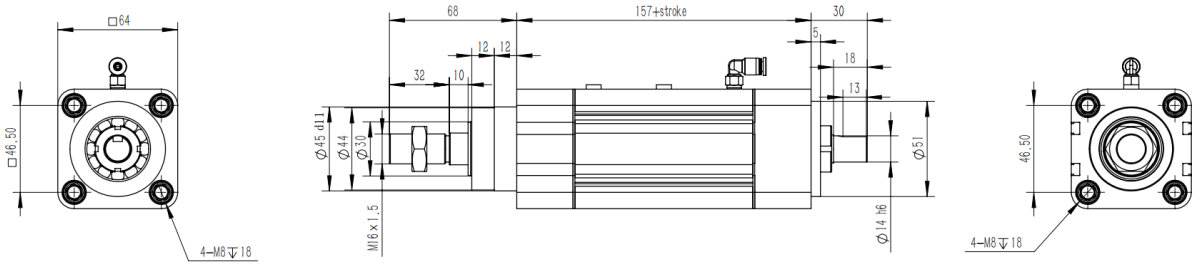
Standard motoroutput (W)	400W/750W		
Ratedtorque (Nm)	1.27/2.39		
Maximum allowableinputtorque (Nm)	18		
Screw grade	C7 conversion (slender ratio 1:70)		
Repetitivepositioning accuracy (mm)	±0.02		
Rotation angleofpiston rod (°)	±0.5		
Lead (mm)	5	10	20
Ratedoutput (N)	1440/2700	720/1350	360/675
Maximum allowableaxial staticthrustforce (N)	4060	5230	4860
Maximum speed (mm/s)	250	500	1000
Travelrange (mm)	0-1000		
Electriccylinderbody 0mm stroke mass (kg)	2.6		
The mass oftheelectriccylinderincreases every 100mm stroke (kg)	0.87		
Mass ofcomponents directlyinstalledon the motor (kg)	0.4/0.5		
Mass ofcomponents relatedtoindirectinstallation of motors (kg)	0.7/1.1		
Sensor	CS1-D-2M-IP65	Electronic magnetic switch (waterproof),withawirelengthof 2 meters	
Protection grade	IP65 rated motoravailableforpurchase		





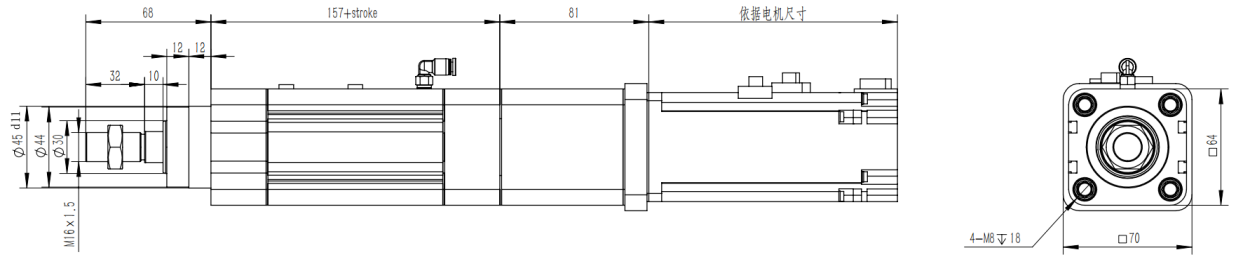
ESIP50-Barecylinder

Unit:mm



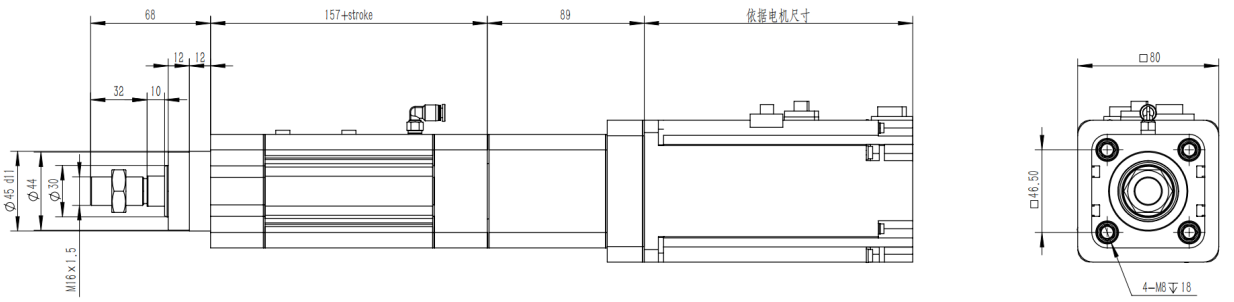
ESIP50-D-M400W

Unit:mm



ESIP50-D-M750W

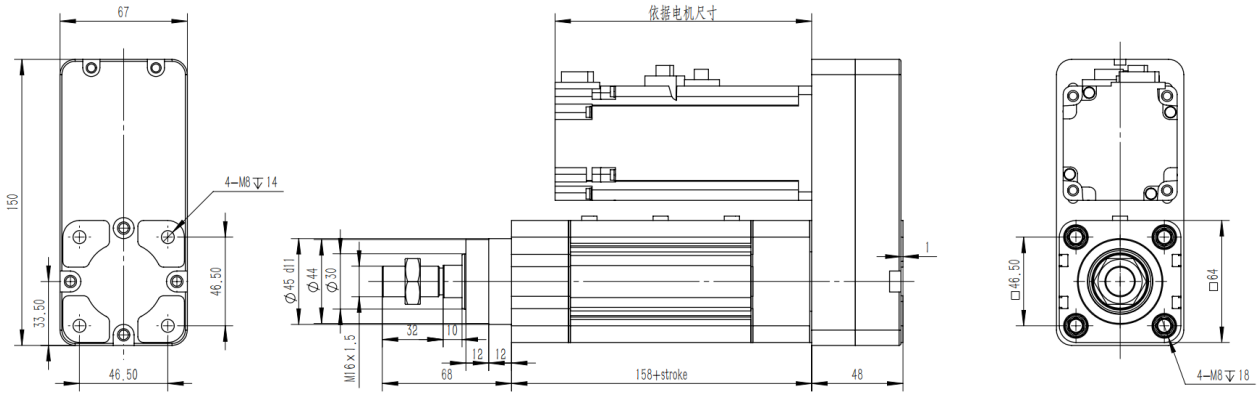
Unit:mm



This drawing is for reference only, and the actual dimensions are subject to the 2D and 3D drawings provided. Changes in product style, appearance, and specifications will not be notified separately.

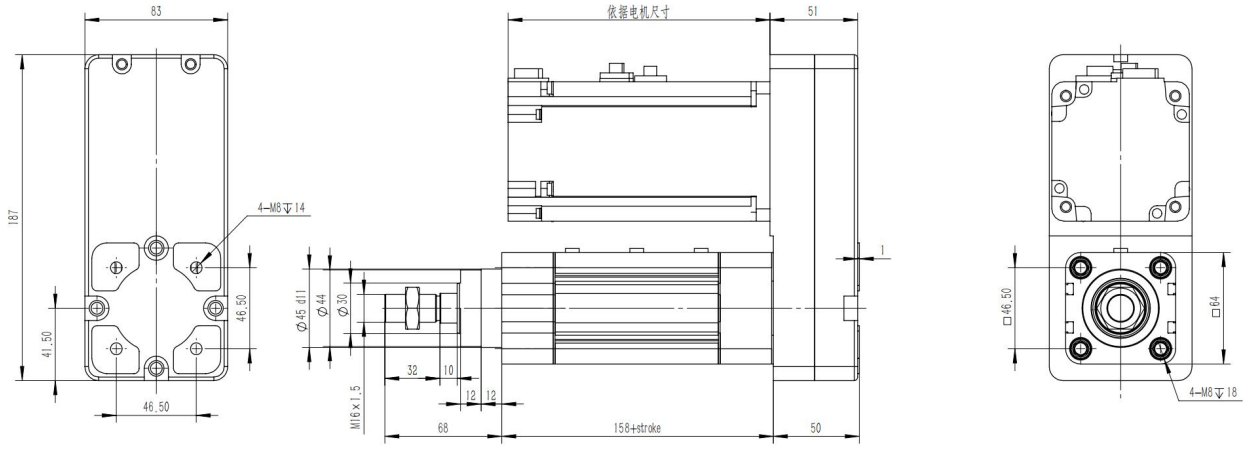
ESIP50-P-M400W

Unit:mm



ESIP50-P-M750W

Unit:mm



This drawing is for reference only, and the actual dimensions are subject to the 2D and 3D drawings provided. Changes in product style, appearance, and specifications will not be notified separately.

ESIP63

ESIP63	-	100-	P10	-	D	-	M	75	-	S3
Model		Strokemm	Lead		Motor installation		Motorbrand	Motor		Switches

50-1200mm
Note: 50mm interval

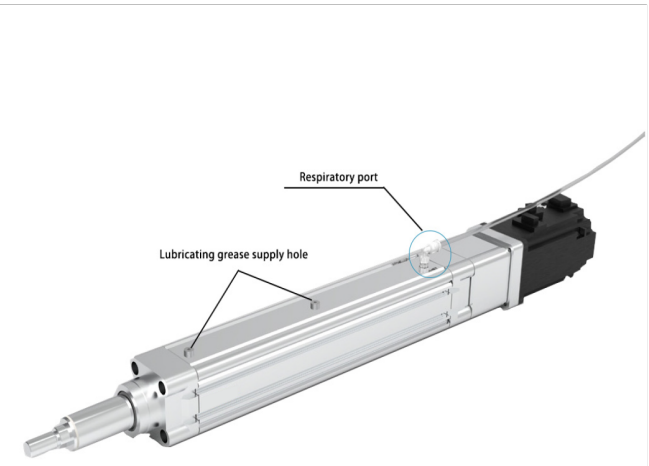
P05: 5mm
P10: 10mm
P25: 25mm

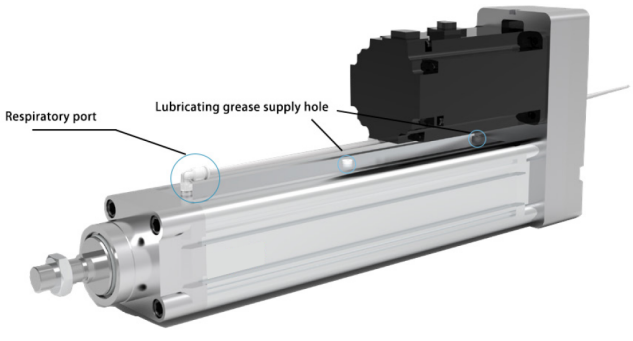
D: Direct mount
P: Indirect mount
None: Bare cylinder vacancy

M: Mitsubishi 10
P: Panasonic 20 -
Y: Yaskawa 40 -
T: Delta 75 750W
None: Barecylindervacancy

Sn: n switches (two-wire system)

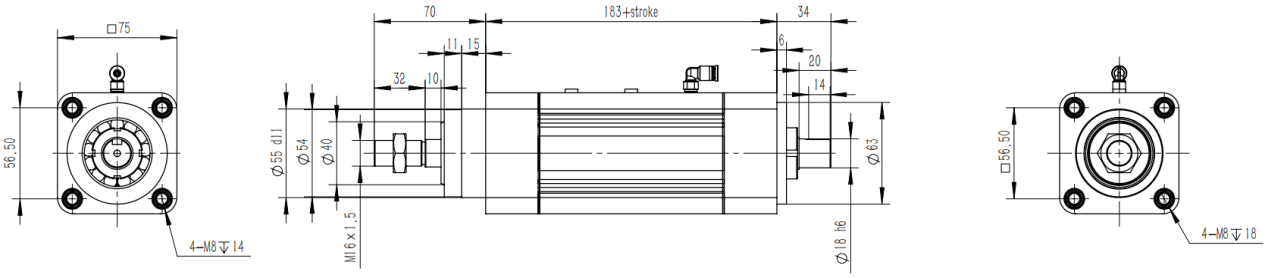
Standard motoroutput (W)	750W		
Ratedtorque (Nm)	2.39		
Maximum allowableinputtorque (Nm)	26		
Screw grade	C7 conversion (slenderratio 1:72)		
Repetitivepositioning accuracy (mm)	±0.02		
Rotation angleofpiston rod (°)	±0.5		
Lead (mm)	5	10	25
Ratedoutput (N)	2700	1350	540
Maximum allowableaxial staticthrustforce (N)	4520	5650	5770
Maximum speed (mm/s)	250	500	1250
Travelrange (mm)	0-1200		
Electriccylinderbody 0mm stroke mass (kg)	4.5		
The mass oftheelectriccylinderincreases every 100mm stroke (kg)	1.31		
Mass of components directly installed on the motor (kg)	0.8		
Mass ofcomponents relatedtoindirectinstallation of motors (kg)	1.2		
Sensor	CS1-D-2M-IP65	Electronic magnetic switch (waterproof),withawirelengthof 2 meters	
Waterdustprooflevel	IP65 rated motoravailableforpurchase		





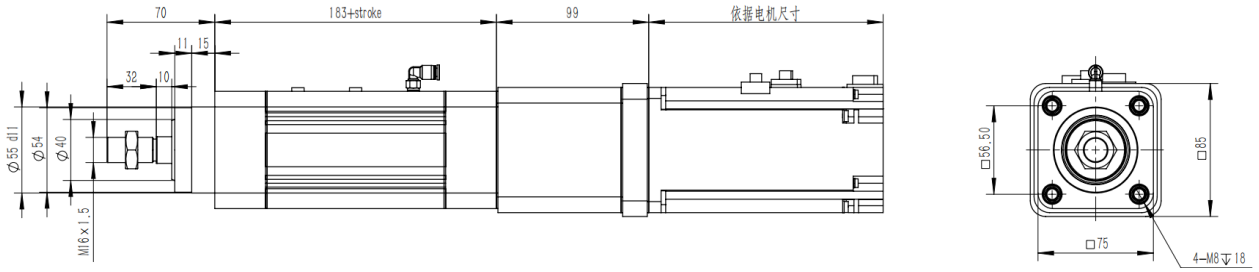
ESIP63- Bare cylinder

Unit:mm



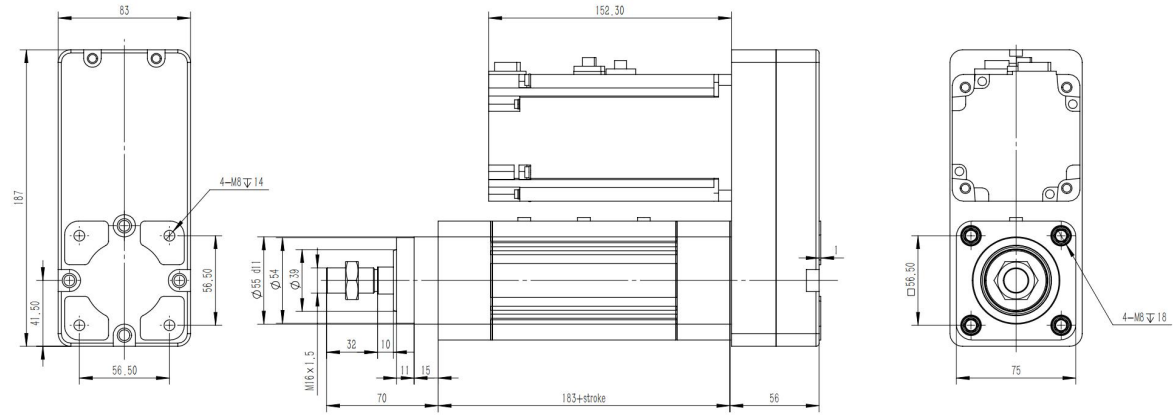
ESIP63-D

Unit:mm



ESIP63-P

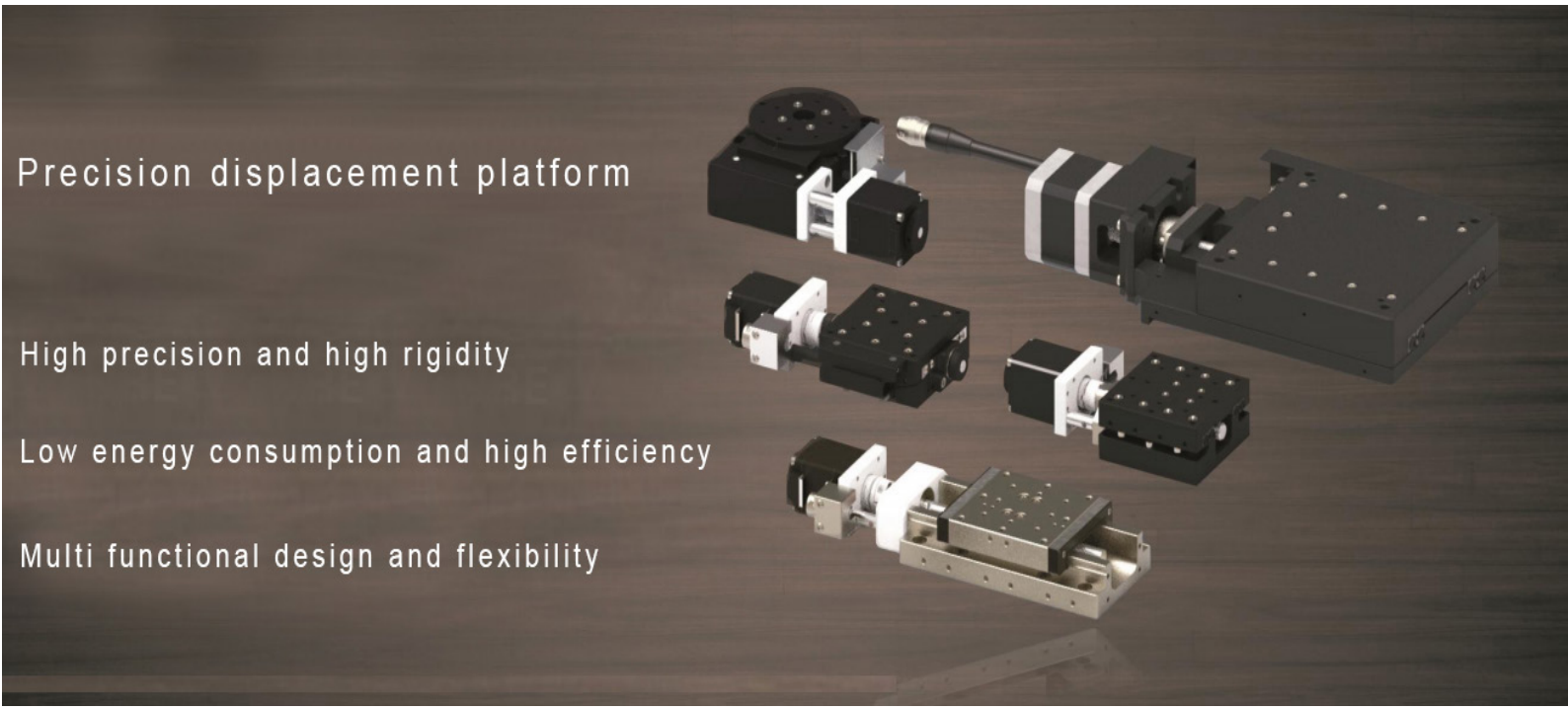
Unit:mm



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Precision displacement platform





● 型号说明

LF X 4 15 – L – D – B2 –Q

- Q：电机
- B2：2米航插线
- D：出线方式，参考图1
- L：光电位置，参考图2
- 15：行程(mm)
- 4：台面大小 4:40*40 6:60*60
- X：移动方向 X:X轴一个方向 Z:Z轴一个方向 XY:XY轴两个方向

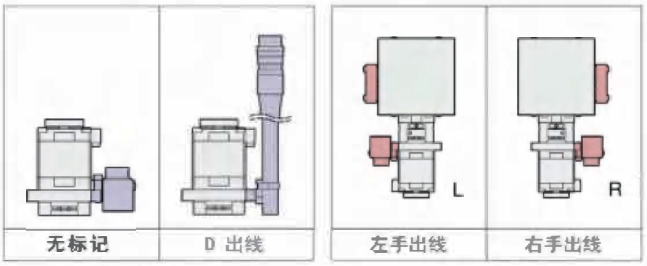
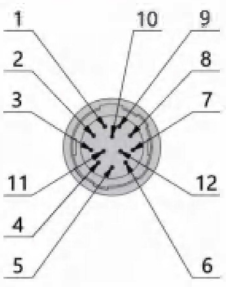


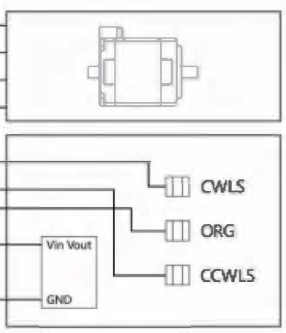
图1　　图2

● 针脚排列图



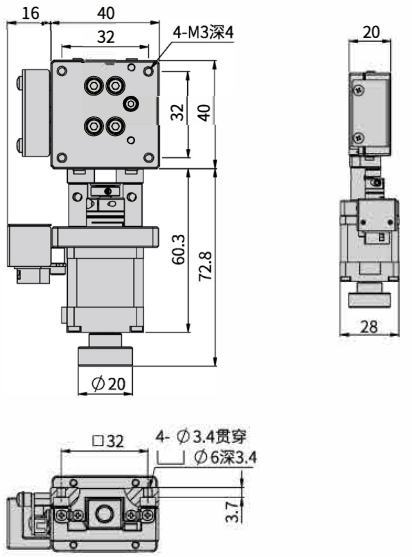
● 接线图

1	A+
2	A-
3	B+
4	B-
5	备用
6	CWLS输出
7	CCWLS输出
8	备用
9	电源输入（+）
10	ORG输出
11	电源输入（-）
12	F.G.

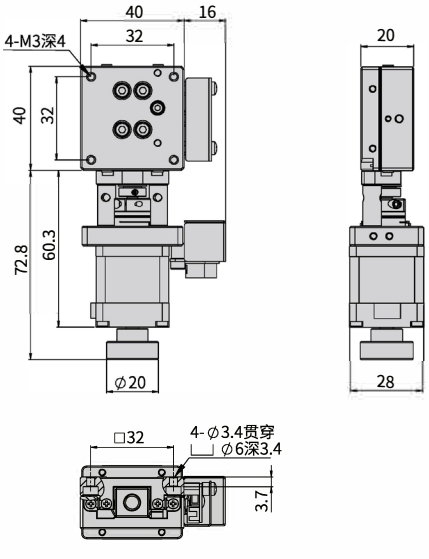


直线滚珠型

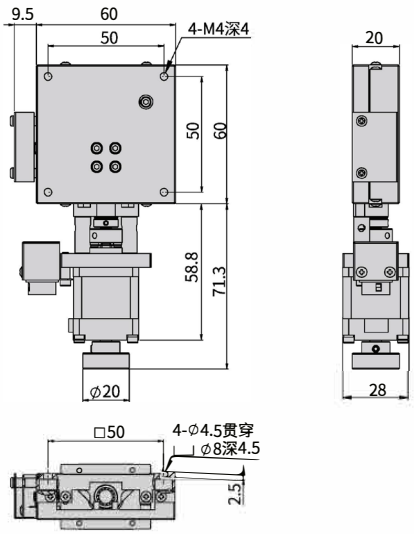
X415-L



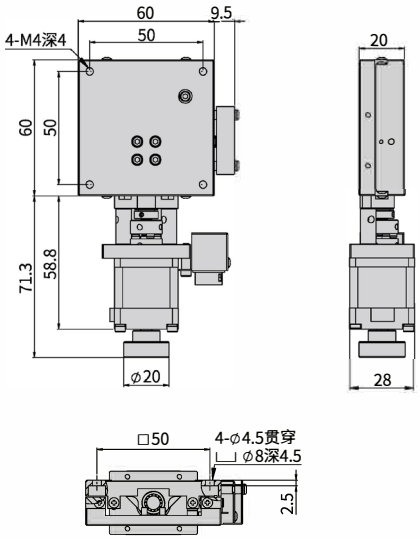
LFX415-R



X615-L

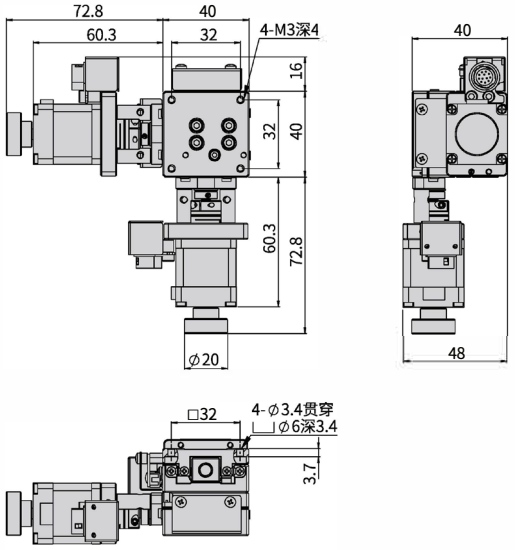


LFX615-R

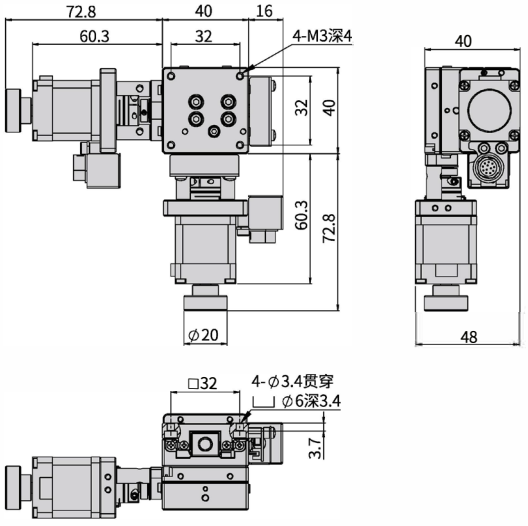


型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
FX415-L	15mm	40x40 mm	Φ6 导程1	直线导轨	钢-镀镍	0.36kg	X轴	10mm /sec	15um 以内	±1um	10kgf	3um 以内	3um 以内	20um 以内	有	有
FX415-R																
FX615-L		60x60 mm				0.56kg										
FX615-R																

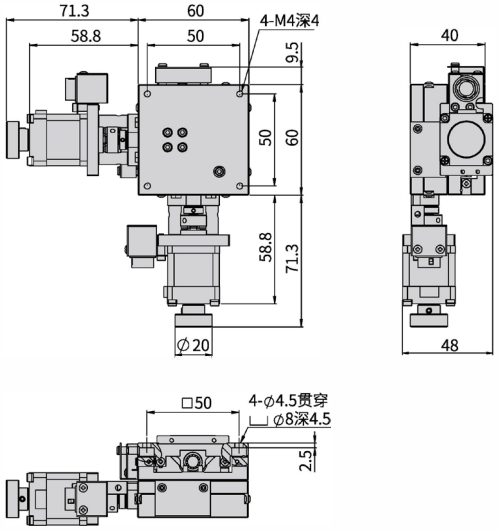
LFXY415-L



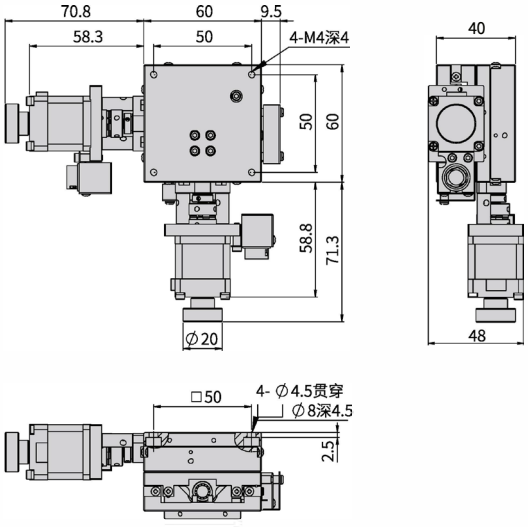
LFXY415-R



LFXY615-L



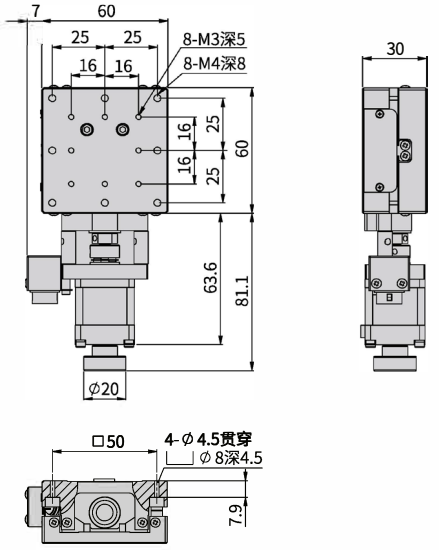
LFXY615-R



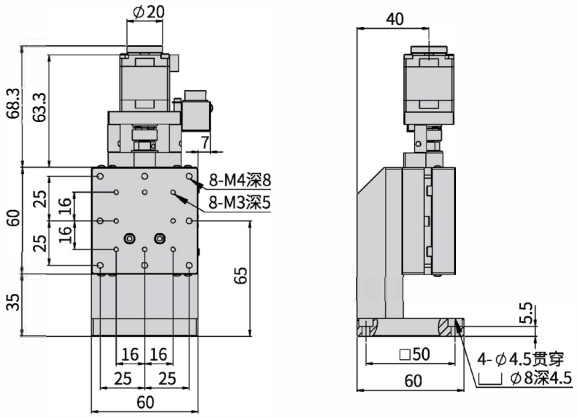
型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LFXY415-L	15mm	40x40 mm	Φ6 导程1	直线导轨	钢-镀镍	0.72kg	XY轴	10mm /sec	15um 以内	±1um	10kgf	3um 以内	3um 以内	20um 以内	有	有
LFXY415-R																
LFXY615-L		60x60 mm				1.12kg										
LFXY615-R																

直线滚珠型

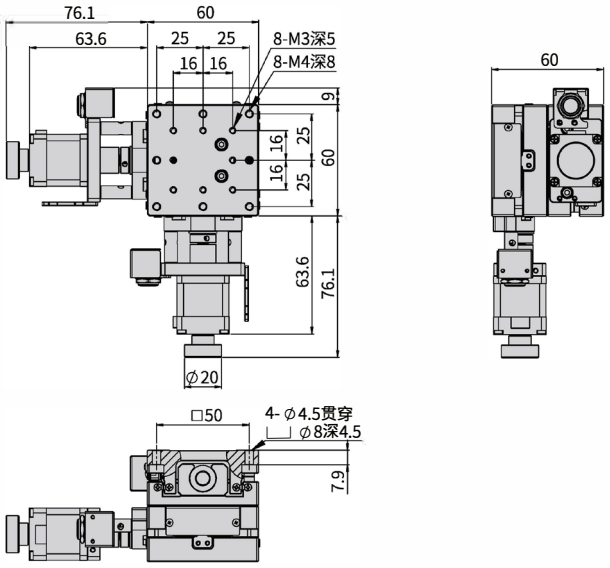
LFX620



LFZ620

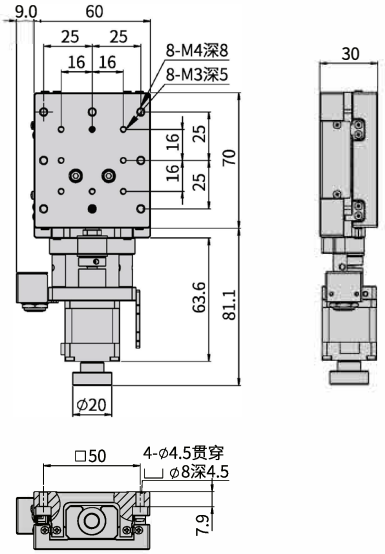


LFXY620

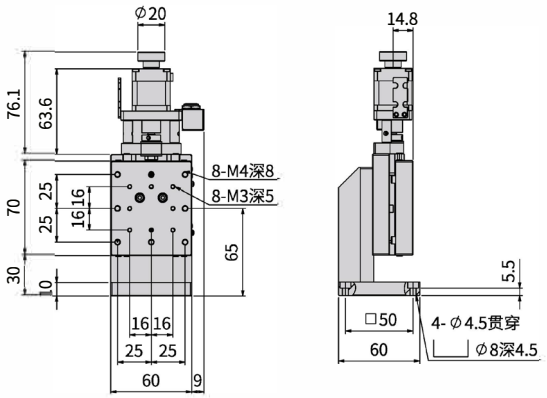


型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LFX620	20mm	60x60 mm	Φ8 导程1	直线导轨	钢-镀镍	0.75kg	X轴	10mm /sec	15um 以内	±1um	10kgf	3um 以内	3um 以内	15um 以内	有	有
LFZ620						1.05kg	Z轴				5kgf					
LFXY620						1.5kg	XY轴				10kgf					

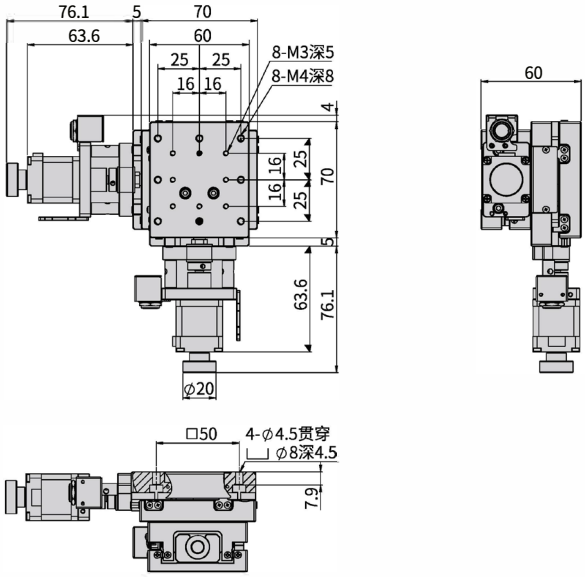
LFX630



LFZ630



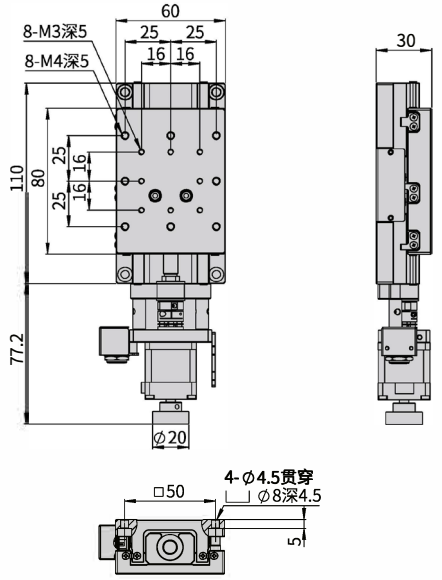
LFXY630



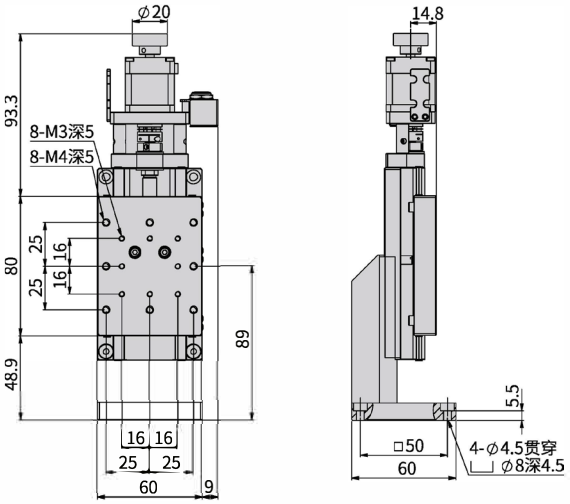
型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LFX630	30mm	60x70 mm	Φ8 导程1	直线导轨	钢-镀镍	0.87kg	X轴	10mm /sec	15um 以内	±1um	10kgf	3um 以内	3um 以内	15um 以内	有	有
LFZ630						1.17kg	Z轴				5kgf					
LFXY630						1.74kg	XY轴				10kgf					

直线滚珠型

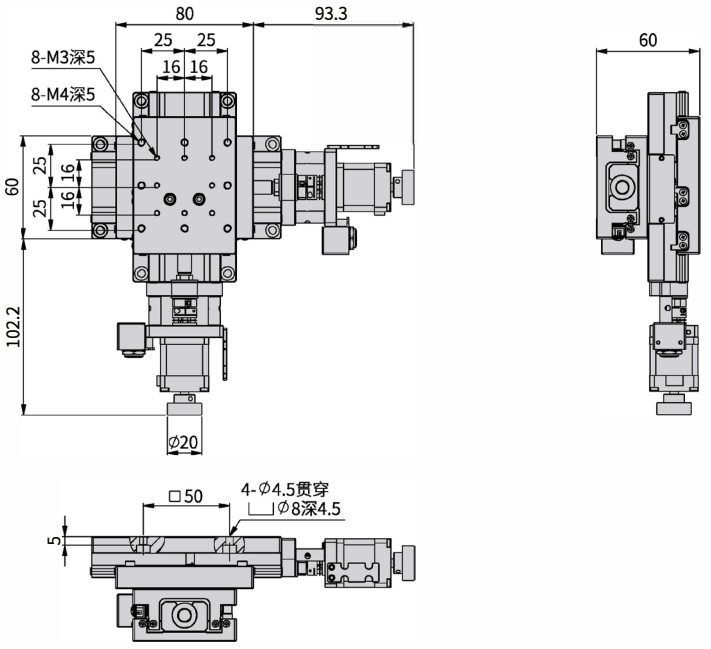
LFX650



LFZ650

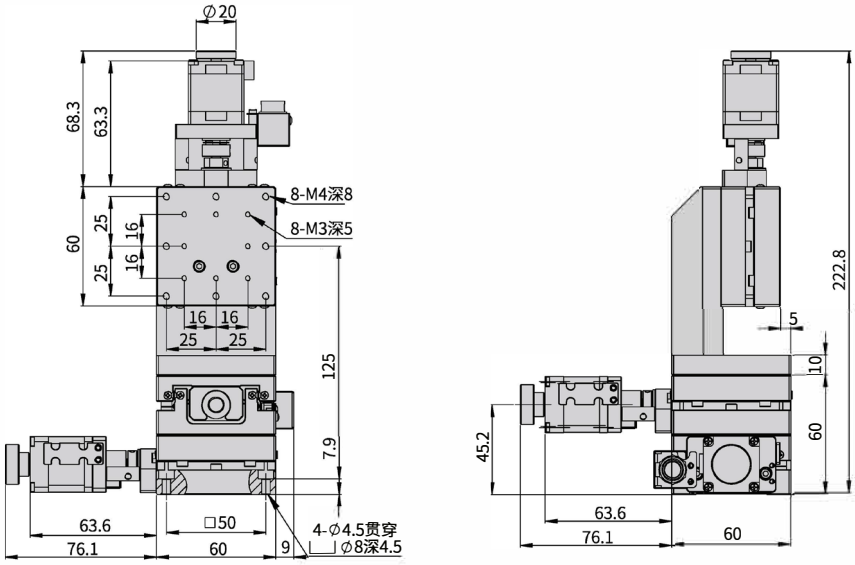


LFXY650

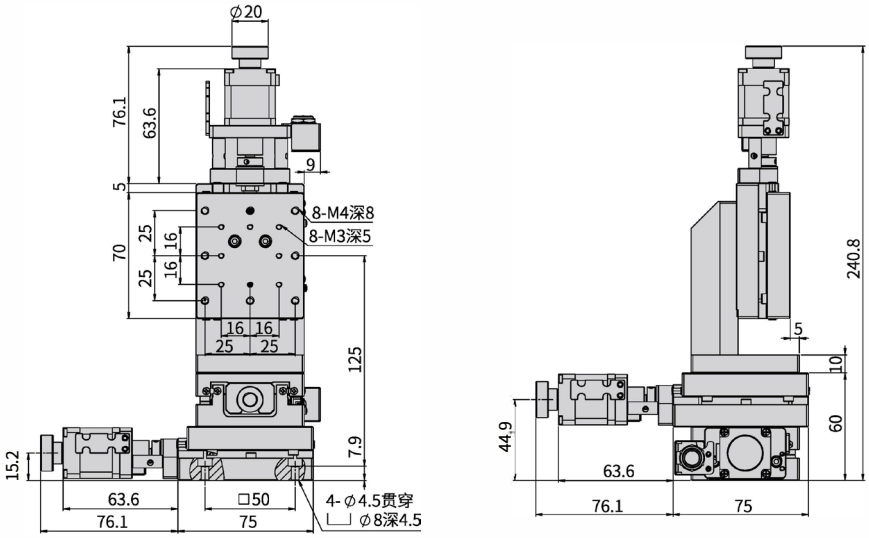


型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LFX650	50mm	60x80 mm	Φ8 导程1	直线导轨	钢-镀镍	1.15kg	X轴	10mm /sec	15um 以内	±1um	10kgf	3um 以内	3um 以内	15um 以内	有	有
LFZ650						1.45kg	Z轴				5kgf					
LFXY650						2.3kg	XY轴				10kgf					

LFXYZ620



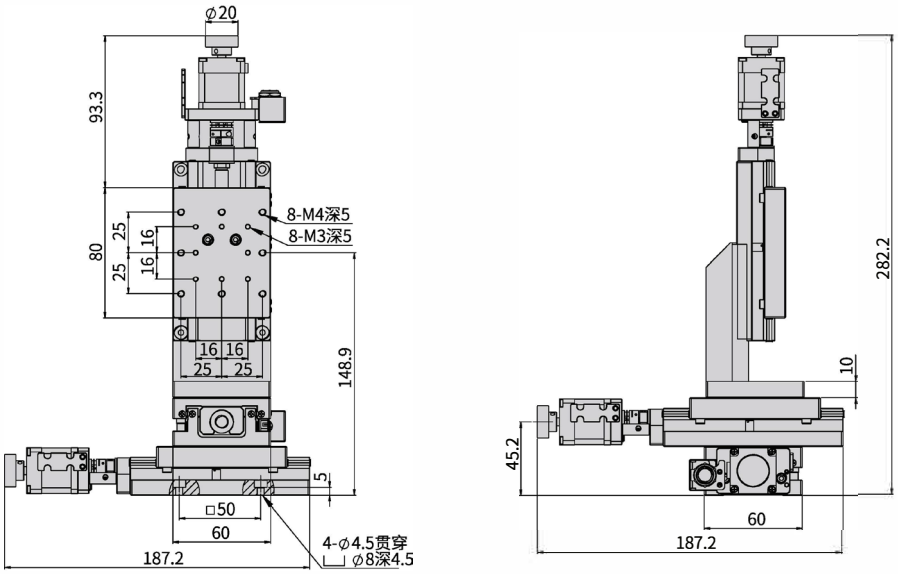
LFXYZ630



型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LFXYZ620	20mm	60x60 mm	Φ8 导程1	直线导轨	钢-镀镍	2.55kg	XYZ轴	10mm /sec	15um 以内	±1um	5kgf	3um 以内	3um 以内	15um 以内	有	有
LFXYZ630	30mm	60x70 mm				2.91kg										

直线滚珠型

LFXYZ650



型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LFXYZ650	50mm	60x80 mm	Φ8 导程1	直线导轨	钢-镀镍	3.75kg	XYZ轴	10mm /sec	15um 以内	±1um	5kgf	3um 以内	3um 以内	15um 以内	有	有

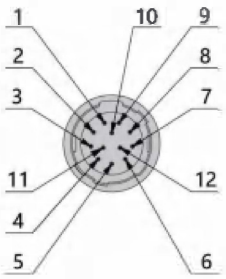


● 型号说明

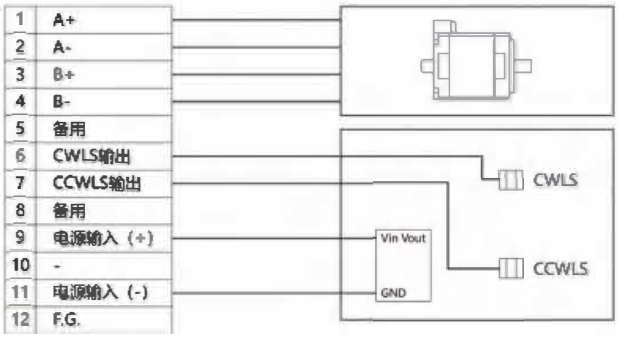
LF T X 6 30 – C 1 – B2 – Q

- Q：电机
- B2：2米航插线
- 1：丝杆导程 1:1mm 2:2mm
- C：盖板 C:不带盖板 G:带盖板
- 30：行程(mm)
- 6：台面大小 6:60*60
- X：移动方向 X:X轴一个方向 Z:Z轴一个方向 XY:XY轴两个方向
- T:滚珠循环

● 针脚排列图

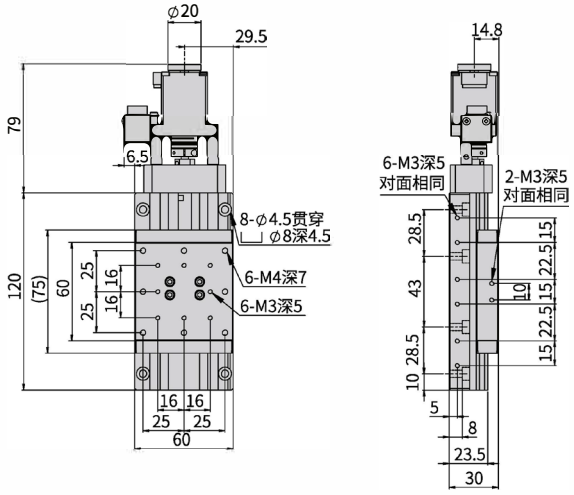


● 接线图

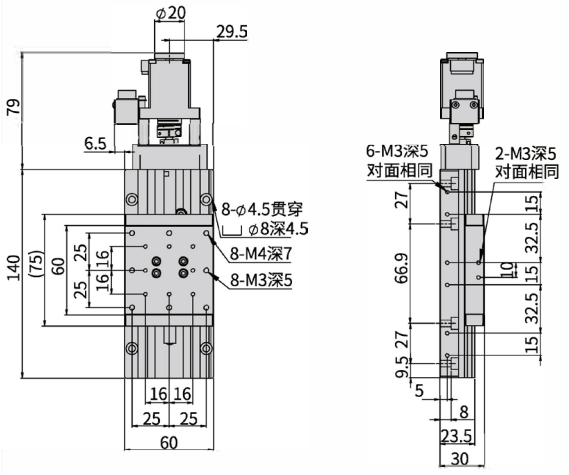


直线滚珠型

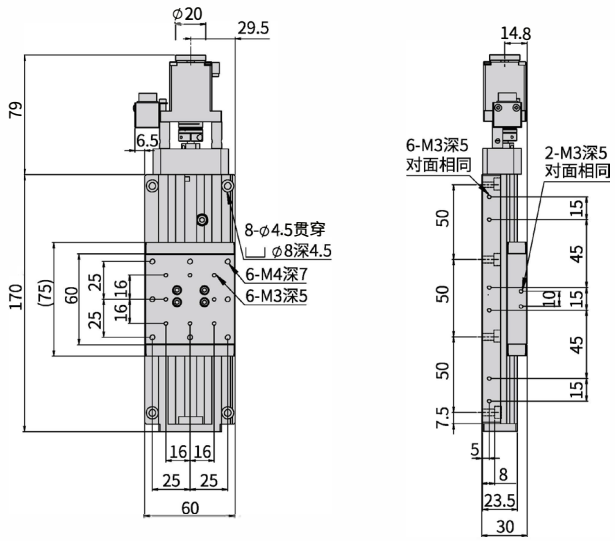
LFTX630-C1



LFTX650-C1

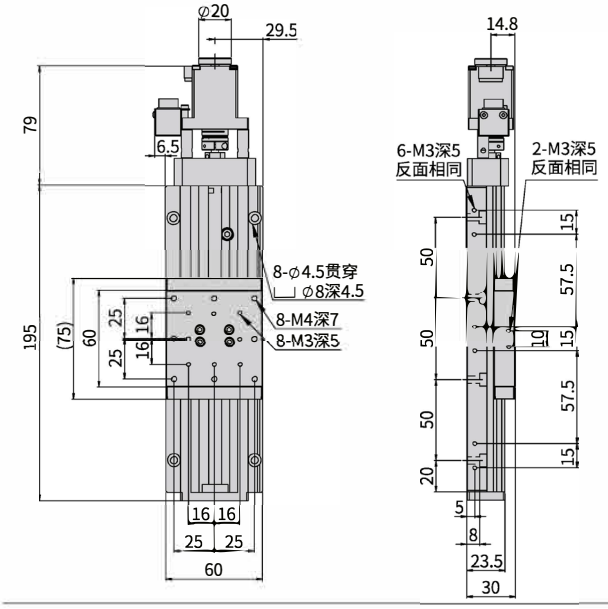


LFTX675-C1

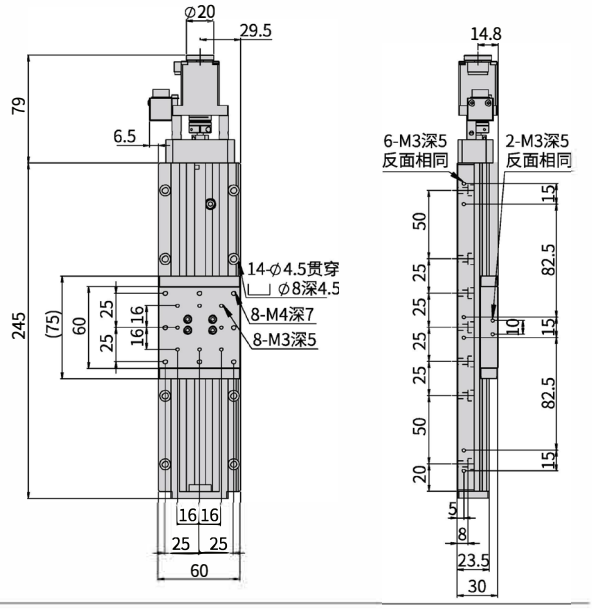


型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LFTX630-C1	30mm	60x60 mm	Φ8 导程1	直线导轨	钢-镀镍	1.2kg	X轴	20mm /sec	15um 以内	±1um	14kgf	3um 以内	3um 以内	20um 以内	有	有
LFTX650-C1	50mm					1.3kg										
LFTX675-C1	75mm					1.4kg										

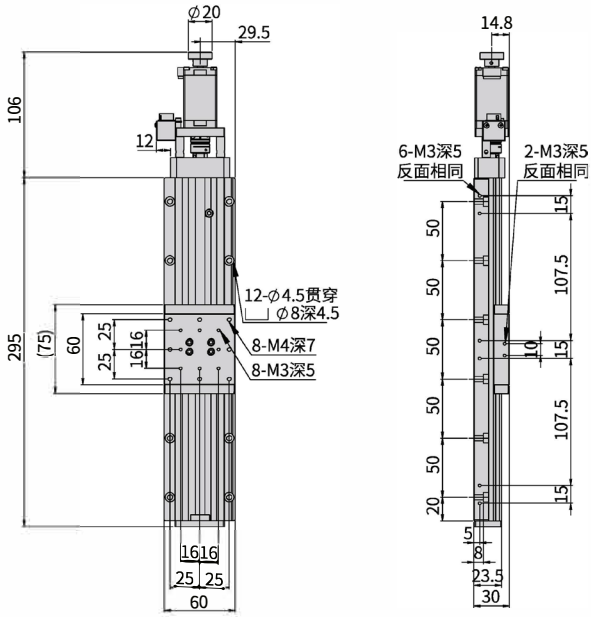
LFTX6100-C1/C2



LFTX6150-C1/C2



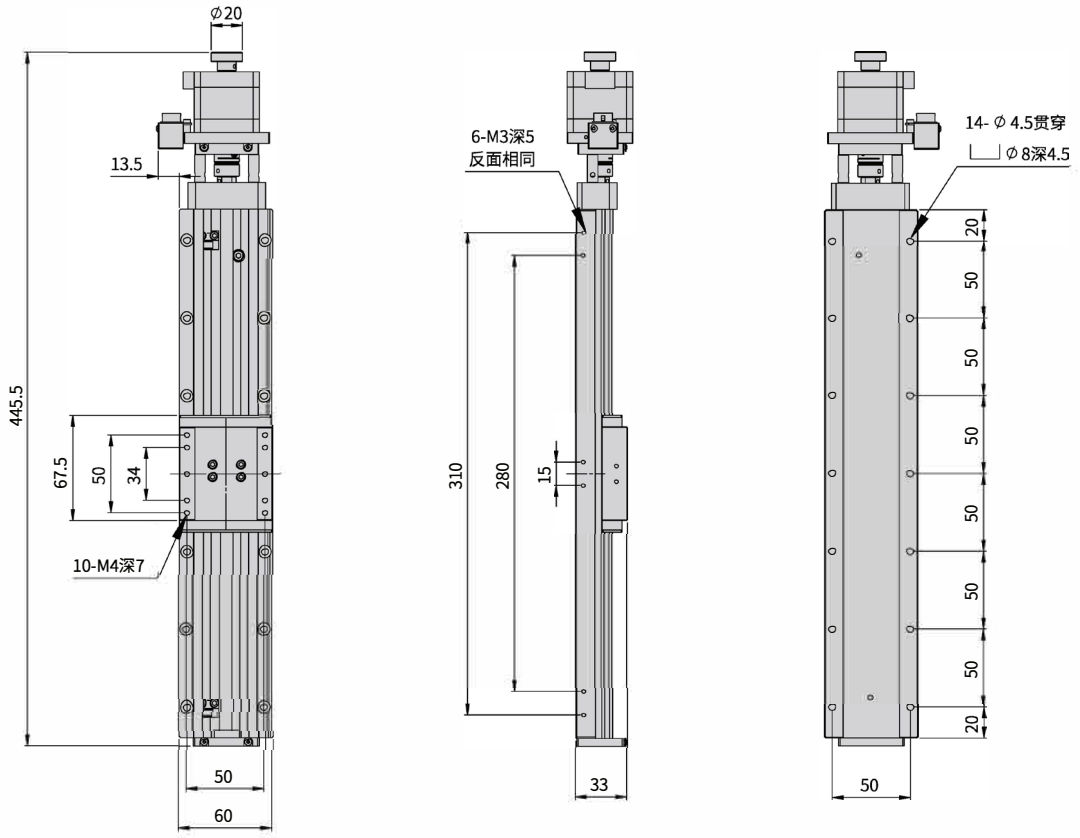
LFTX6200-C1/C2



型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LFTX-6100-C1/C2	100mm	60x60 mm	Φ8 导程1	直线导轨	钢-镀镍	1.55kg	X轴	C1: 20mm/sec C2: 40mm/sec	15um以内	±1um	14kgf	3um以内	3um以内	20um以内	有	有
LFTX-6150-C1/C2	150mm					1.78kg										
LFTX-6200-C1/C2	200mm					2kg										

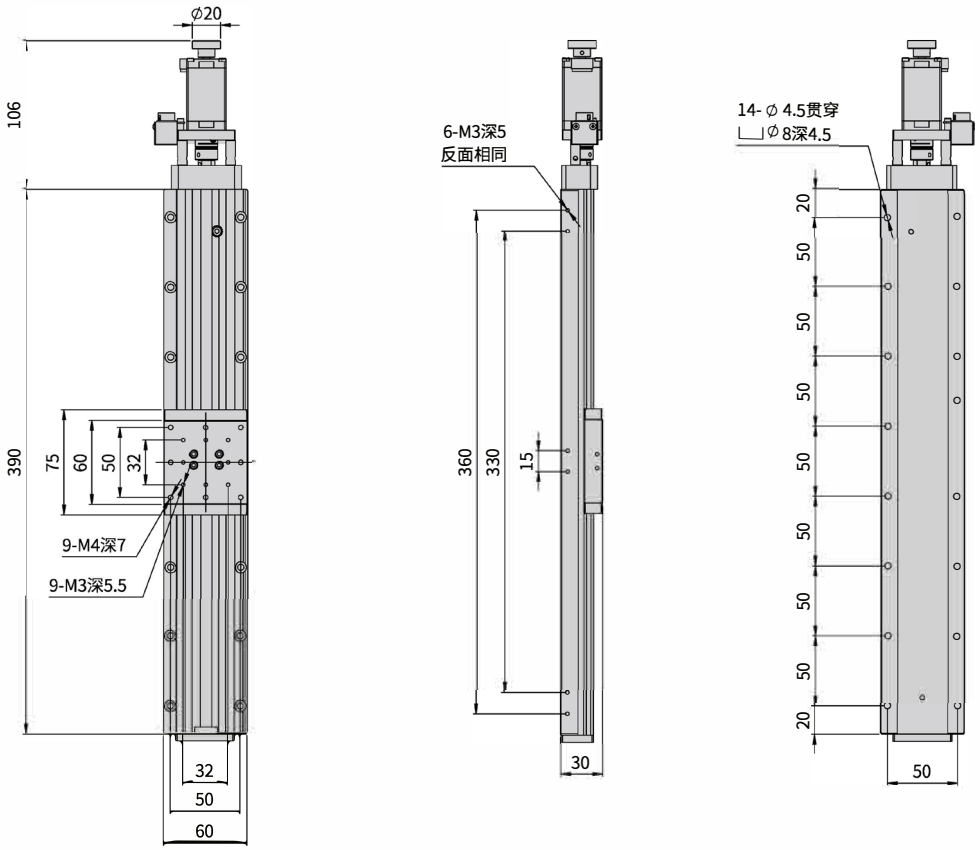
直线滚珠型

LFTX6250



型号	移动量	滑台面尺寸	进给丝杆（滚珠丝杆）	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LFTX6250	250mm	60x60 mm	Φ8 导程2	直线导轨	钢-镀镍	2.3kg	X轴	20mm/sec	15um以内	±1um	14kgf	3um以内	3um以内	20um以内	有	有

LFTX6300



型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LFTX6300	300mm	60x60 mm	Φ8 导程2	直线导轨	钢-镀镍	2.62kg	X轴	20mm/sec	15um以内	±1um	14kgf	3um以内	3um以内	20um以内	有	有

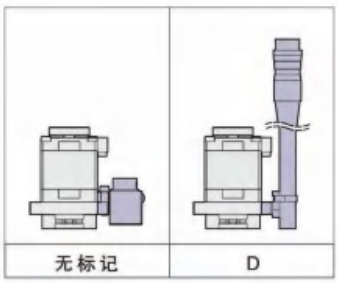
交叉滚子导轨型



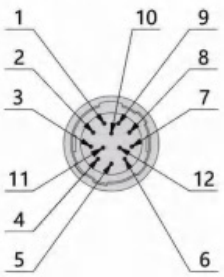
● 型号说明

LA X 6 20 – D – B2 – Q

- Q：电机
- B2：2米航插线
- D：出线方式，参考右图
- 20：行程(mm)
- 6：台面大小 6:60*60
- X：移动方向 X:X轴一个方向 Z:Z轴一个方向 XY:XY轴两个方向 XYZ:XYZ轴三个方向

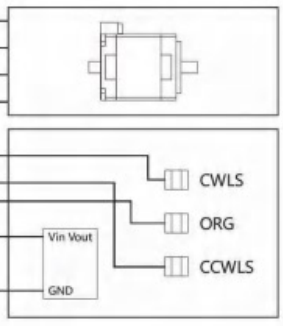


● 针脚排列图

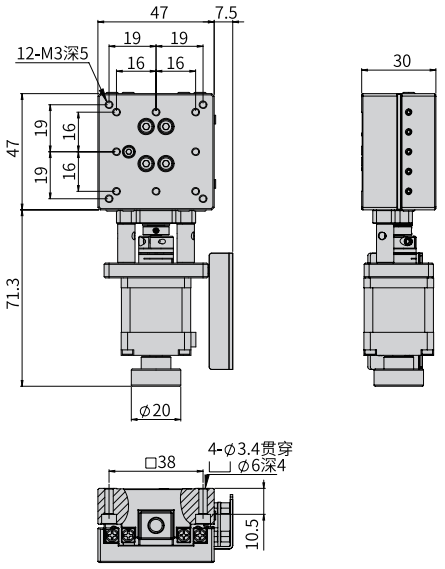


● 接线图

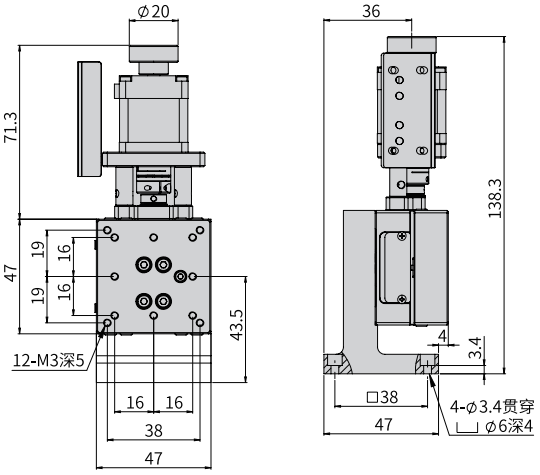
1	A+
2	A-
3	B+
4	B-
5	备用
6	CWLS输出
7	CCWLS输出
8	备用
9	电源输入（+）
10	ORG输出
11	电源输入（-）
12	F.G.



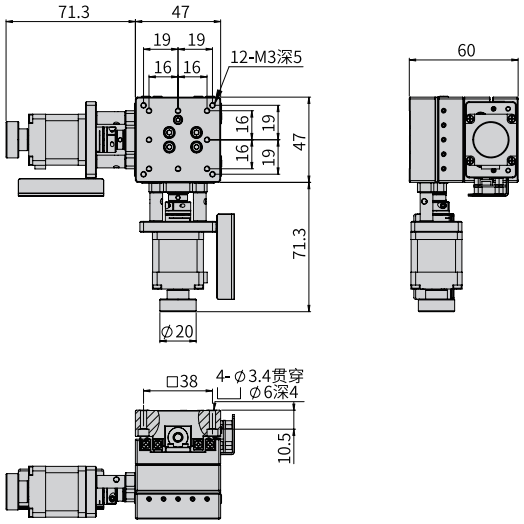
LAX4715



LAZ4715



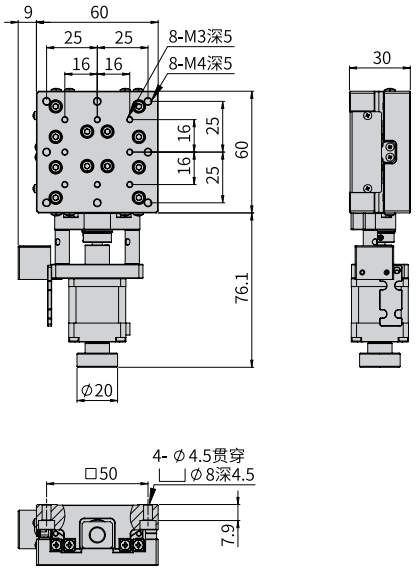
LAXY4715



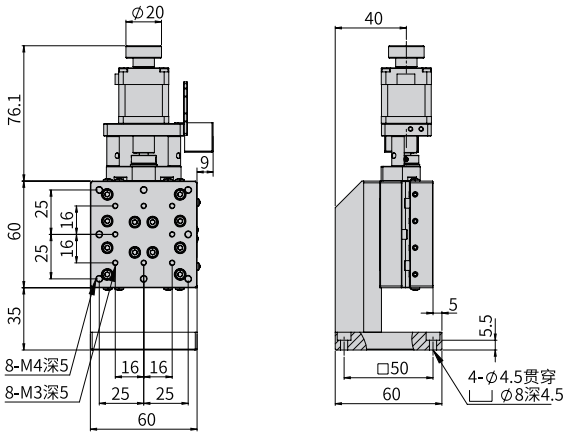
型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LAX4715	15mm	47x47 mm	Φ6 导程1	交叉滚子导轨	铝-阳极氧化	0.35kg	X轴	10mm /sec	15um 以内	±1um	5kgf	3um 以内	3um 以内	30um 以内	有	有
LAZ4715						0.6kg	Z轴				3kgf					
LAXY4715						0.7kg	XY轴				5kgf					

交叉滚子导轨型

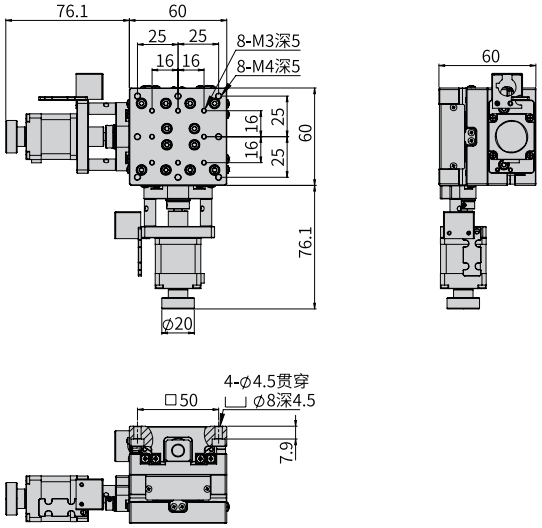
LAX620



LAZ620

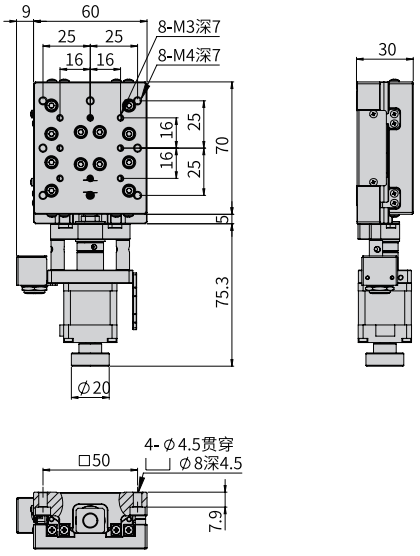


LAXY620

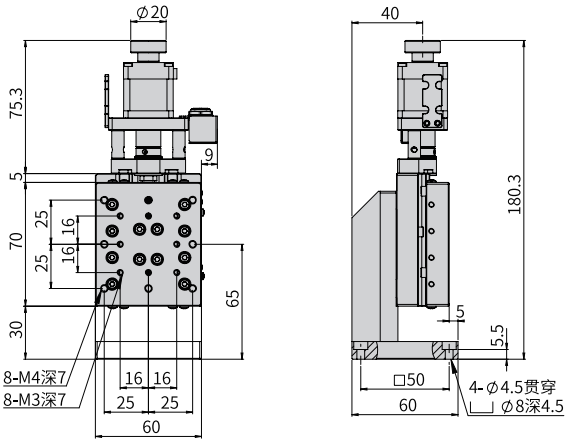


型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LAX620	20mm	60x60 mm	Φ8 导程1	交叉滚子导轨	铝-阳极氧化	0.45kg	X轴	10mm /sec	15um 以内	±1um	5kgf	3um 以内	3um 以内	30um 以内	有	有
LAZ620						0.9kg	Z轴				3kgf					
LAXY620						0.9kg	XY轴				5kgf					

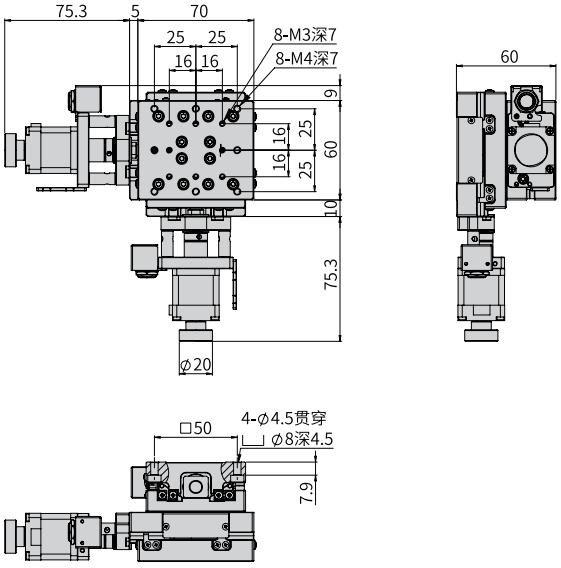
LAX630



LAZ630



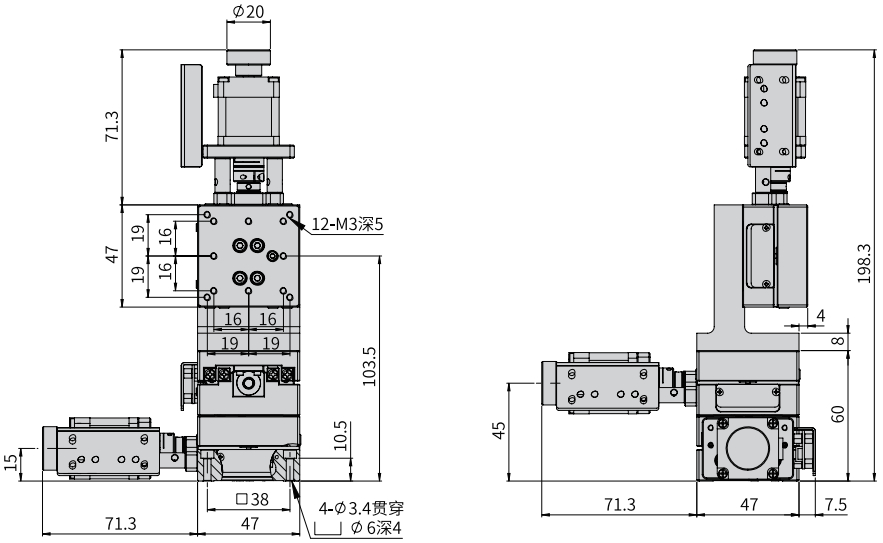
LAXY630



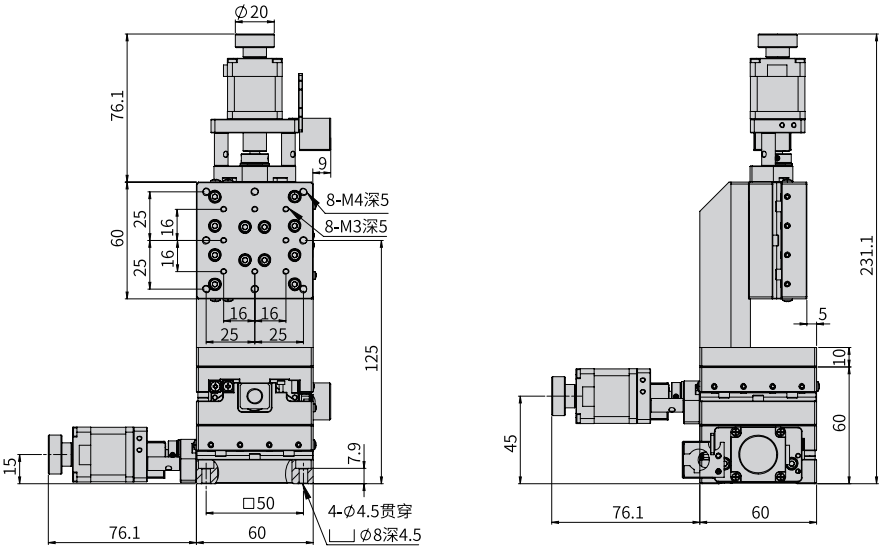
型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LAX630	30mm	60x70 mm	Φ8 导程1	交叉滚子导轨	铝-阳极氧化	0.5kg	X轴	10mm /sec	15um 以内	±1um	5kgf	3um 以内	3um 以内	30um 以内	有	有
LAZ630						0.95kg	Z轴				3kgf					
LAXY630						1kg	XY轴				5kgf					

交叉滚子导轨型

LAXYZ4715

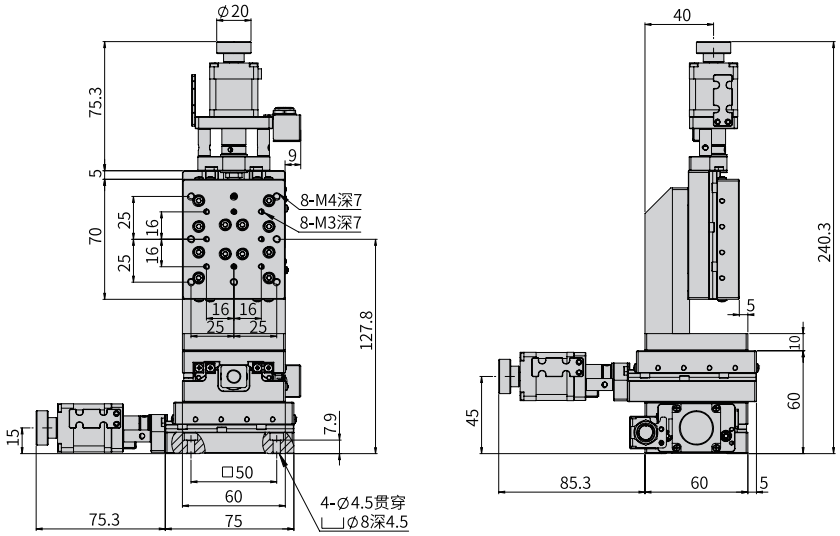


LAXYZ620



型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LAXYZ4715	15mm	47x47 mm	Φ6 导程1	交叉滚子导轨	铝-阳极氧化	1.3kg	XYZ轴	10mm /sec	15um 以内	±1um	3kgf	3um 以内	3um 以内	30um 以内	有	有
LAXYZ620	20mm	60x60 mm	Φ8 导程1			1.8kg										

LAXYZ630



型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LAXYZ630	30mm	60x70 mm	Φ8 导程1	交叉滚子导轨	铝-阳极氧化	1.95kg	XYZ轴	10mm/sec	15um以内	±1um	3kgf	3um以内	3um以内	30um以内	有	有

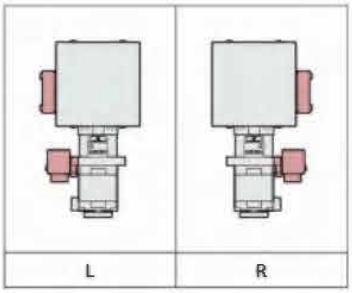
直线滚珠型



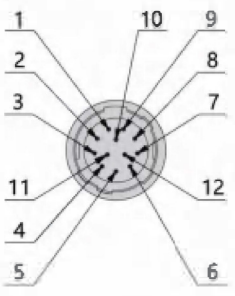
● 型号说明

LA C X 7 25 – L – B2 – Q

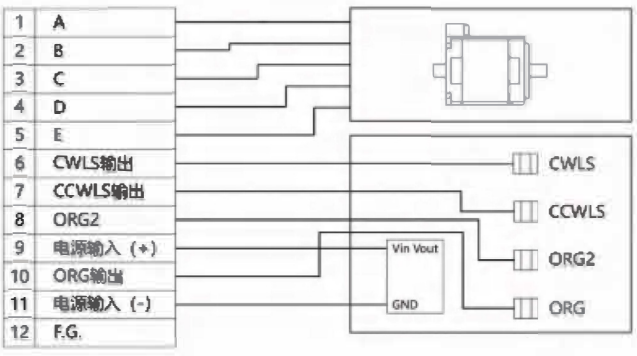
- Q：电机
- B2：2米航插线
- L：光电位置，参考右图
- 25：行程(mm)
- 7：台面大小　7:70*70　8:80*80　10:100*100　12:120*120
- X：移动方向　X:X轴一个方向　Z:Z轴一个方向　XY:XY轴两个方向　XYZ:XYZ轴三个方向
- C:长行程



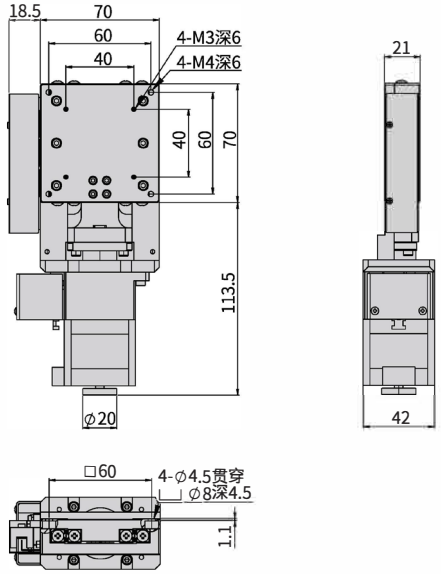
● 针脚排列图



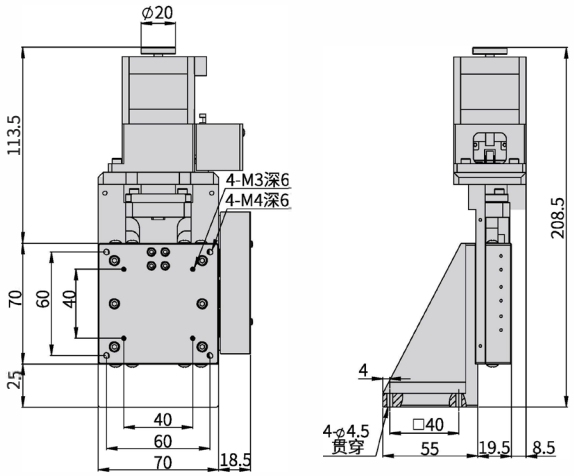
● 接线图



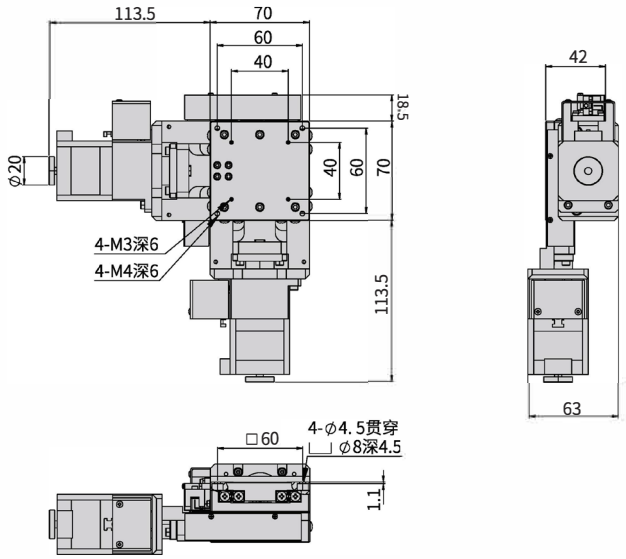
LACX725-L



LACZ725-L



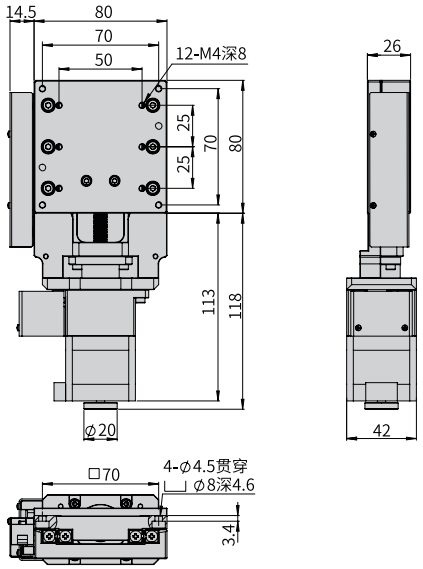
LACXY725-L



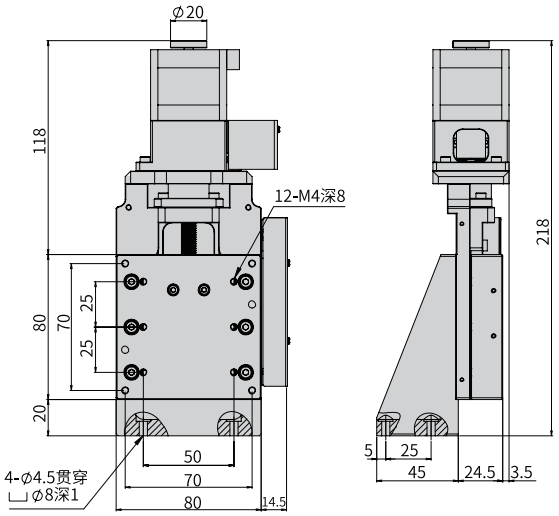
型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LACX725-L	25mm	70x70 mm	Φ6 导程1	直线导轨	铝-阳极氧化	0.92kg	X轴	10mm /sec	10um 以内	±0.5um	10kgf	2.5um 以内	3um 以内	20um 以内	有	有
LACZ725-L						1.12kg	Z轴				5kgf					
LACXY725-L						1.84kg	XY轴				10kgf					

直线滚珠型

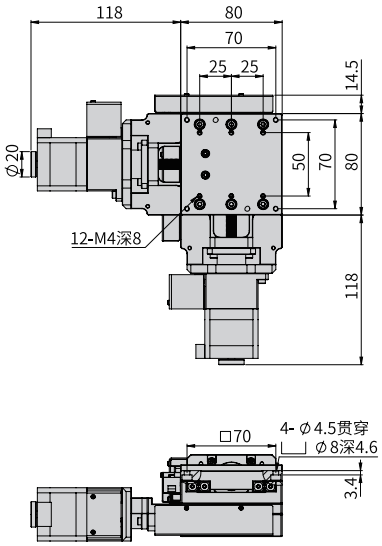
LACX830-L



LACZ830-L

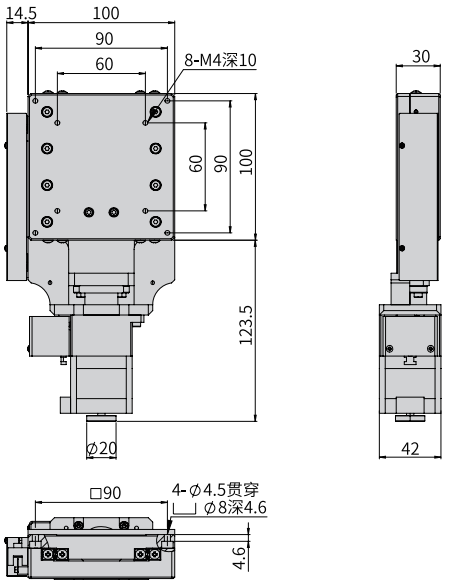


LACXY830-L

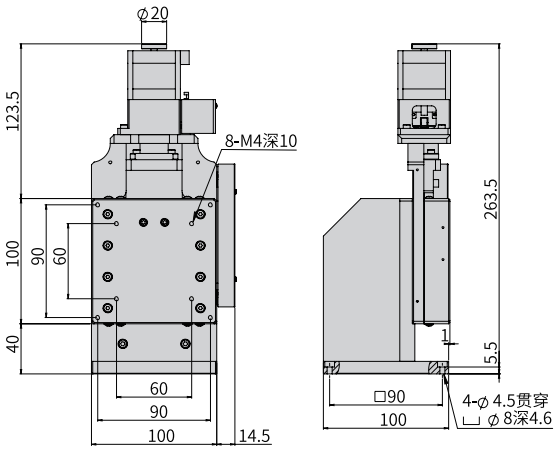


型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LACX830-L	30mm	80x80 mm	Φ8 导程1	直线导轨	铝-阳极氧化	1.15kg	X轴	10mm /sec	10um 以内	±0.5um	15kgf	2.5um 以内	3um 以内	30um 以内	有	有
LACZ830-L						1.44kg	Z轴				7.5kgf					
LACXY830-L						2.3kg	XY轴				15kgf					

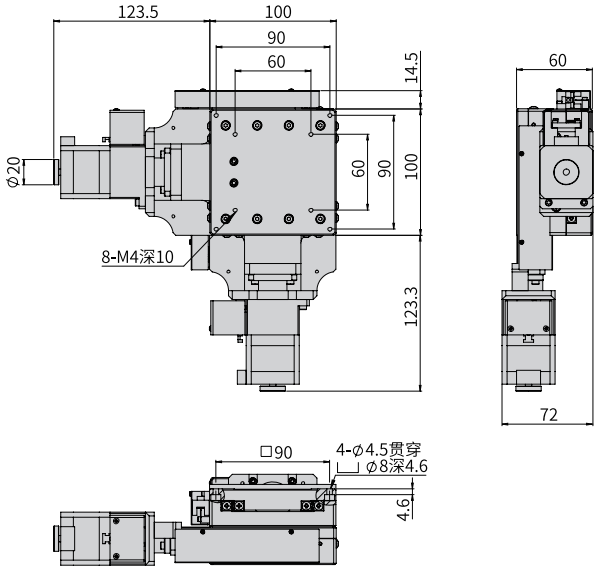
LACX1040-L



LACZ1040-L



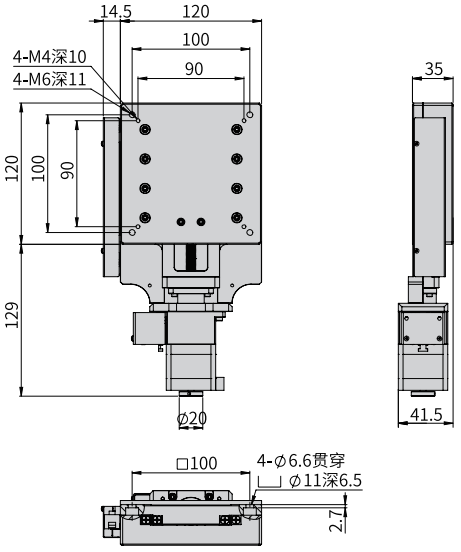
LACXY1040-L



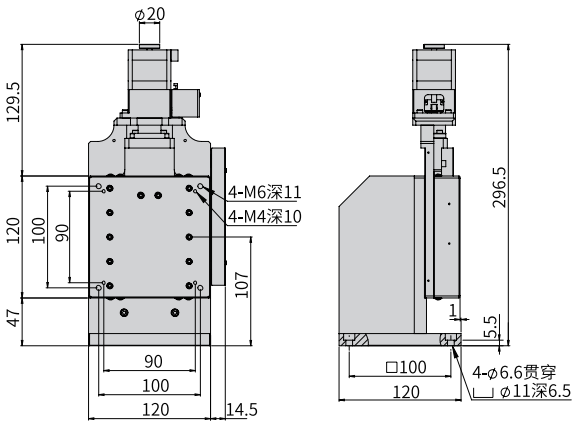
型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LACX1040-L	40mm	100x100 mm	Φ8 导程1	直线导轨	铝-阳极氧化	1.54kg	X轴	10mm /sec	10um 以内	±0.5um	20kgf	2.5um 以内	3um 以内	30um 以内	有	有
LACZ1040-L						2.64kg	Z轴				7.5kgf					
LACXY1040-L						3.08kg	XY轴				20kgf					

直线滚珠型

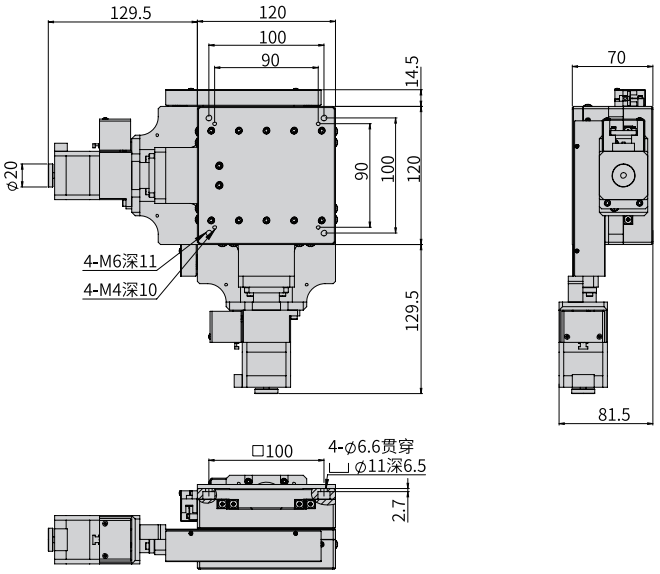
LACX1250-L



LACZ1250-L

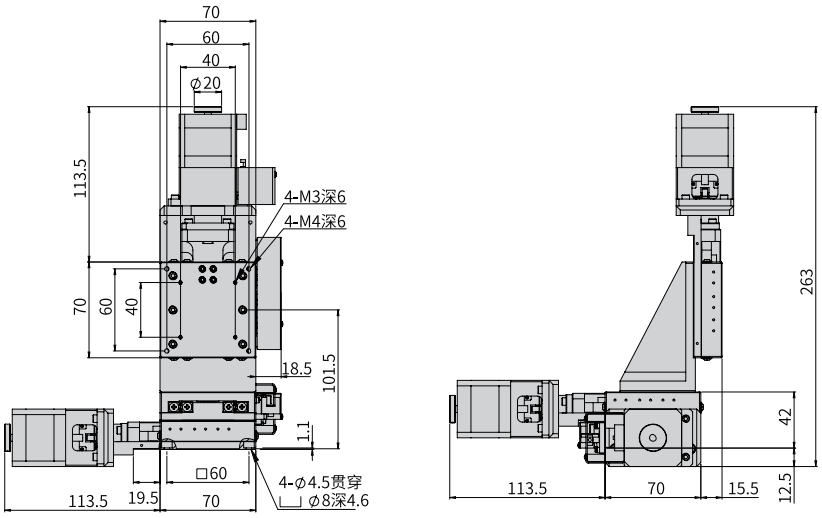


LACXY1250-L

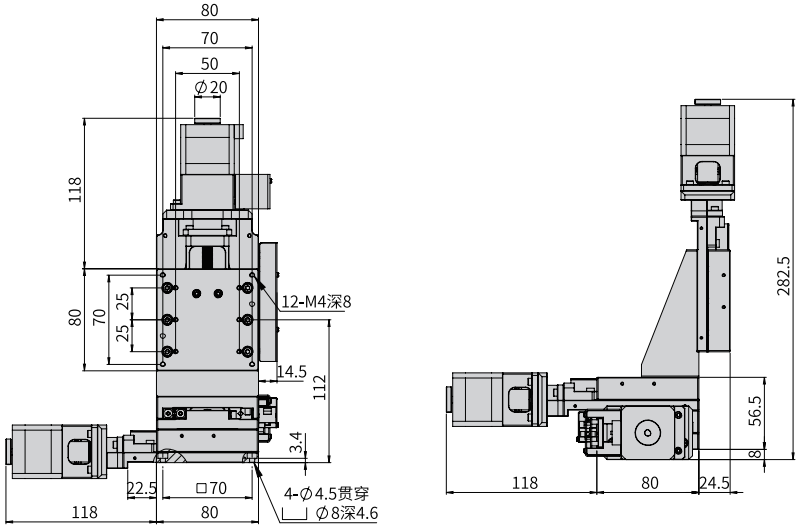


型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LACX1250-L	50mm	120x120 mm	Φ8 导程1	直线导轨	铝-阳极氧化	2.15kg	X轴	10mm /sec	10um 以内	±0.5um	25kgf	2.5um 以内	3um 以内	40um 以内	有	有
LACZ1250-L						3.95kg	Z轴				7.5kgf					
LACXY1250-L						4.3kg	XY轴				20kgf					

LACXYZ725-L



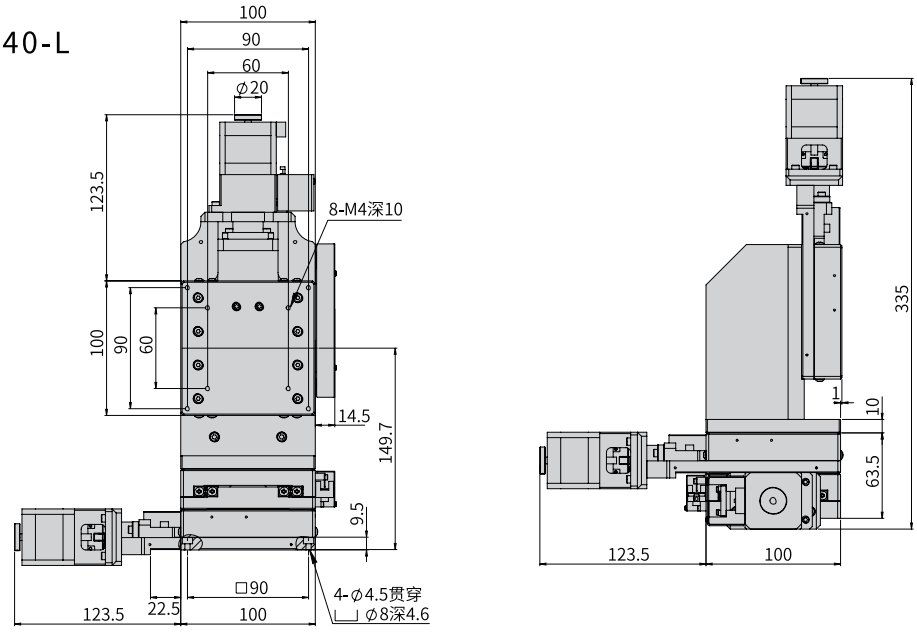
LACXYZ830-L



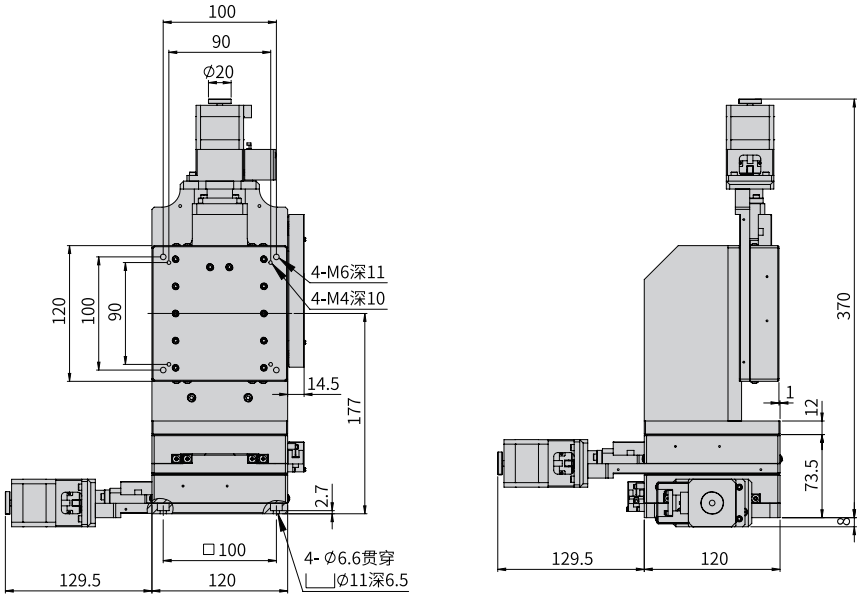
型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LACXYZ725-L	25mm	70x70 mm	Φ6 导程1	直线导轨	铝-阳极氧化	2.96kg	XYZ轴	10mm /sec	10um 以内	±0.5um	5kgf	2.5um 以内	3um 以内	20um 以内	有	有
LACXYZ830-L	30mm	80x80 mm	Φ8 导程1			3.74kg					7.5kgf			30um 以内		

直线滚珠型

LACXYZ1040-L

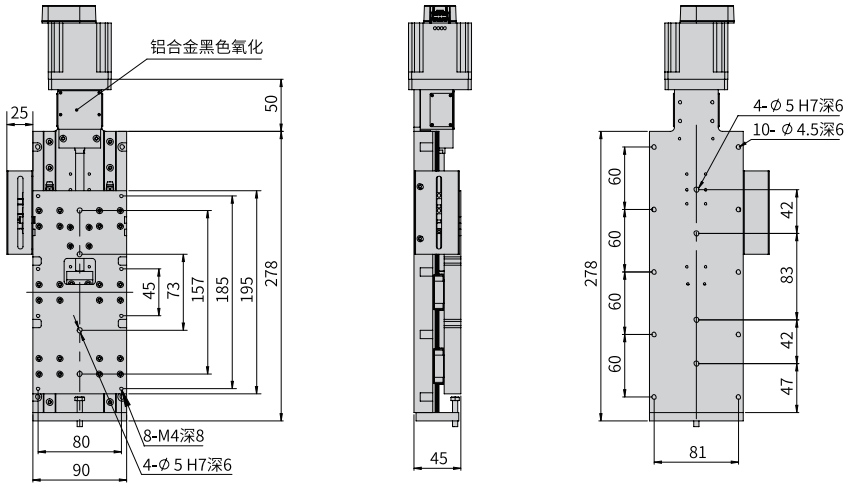


LACXYZ1250-L

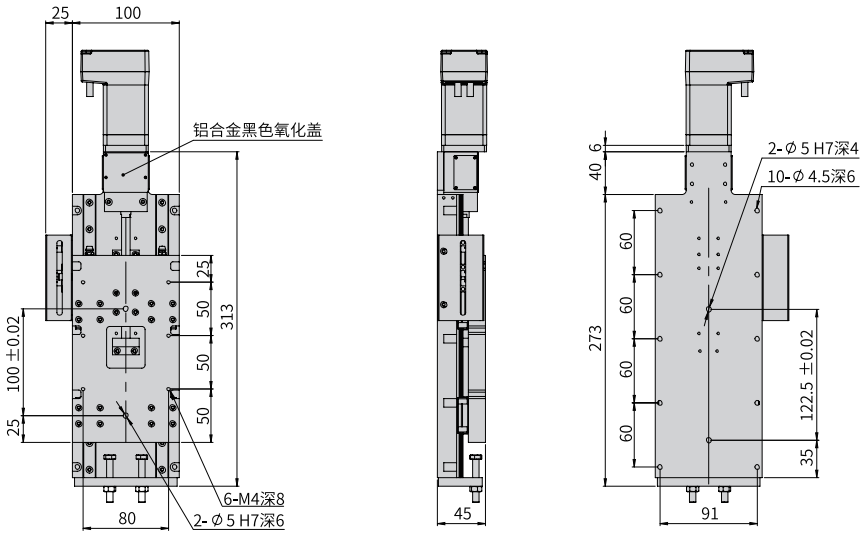


型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	无效运动	直线度	平行度	限位传感器	原点传感器
LACXYZ1040-L	40mm	100x100 mm	Φ8 导程1	直线导轨	铝-阳极氧化	5.72kg	XYZ轴	10mm /sec	10um 以内	±0.5um	7.5kgf	2.5um 以内	3um 以内	30um 以内	有	有
LACXYZ1250-L	50mm	120x120 mm				8.25kg								40um 以内		

LATX6017

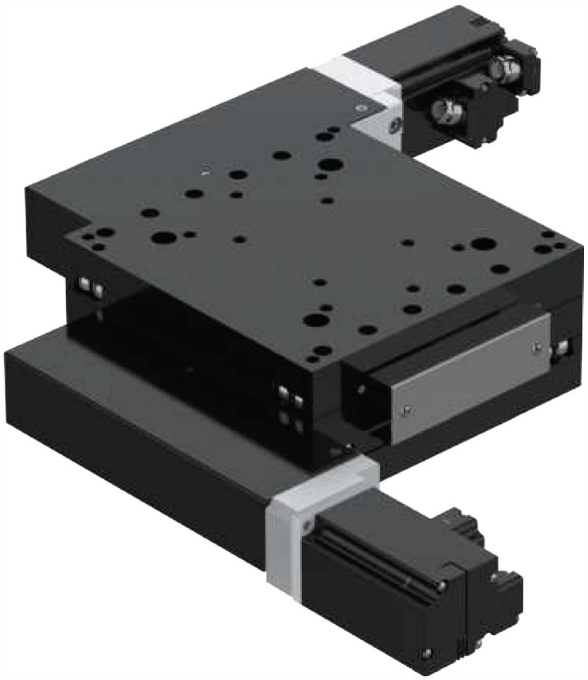


LATX6023



型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	直线度	平行度	限位传感器	原点传感器
LATX6017	17mm	195×90 mm	Φ8 导程1	直线导轨	铝-阳极氧化	3.85kg	X轴	20mm /sec	10um 以内	±2um	15kgf	10um 以内	10um 以内	有	有
LATX6023	正向15mm 反向8mm+	175×100 mm				4.25kg									

一体式XY直线运动型

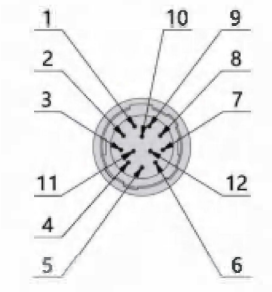


● 型号说明

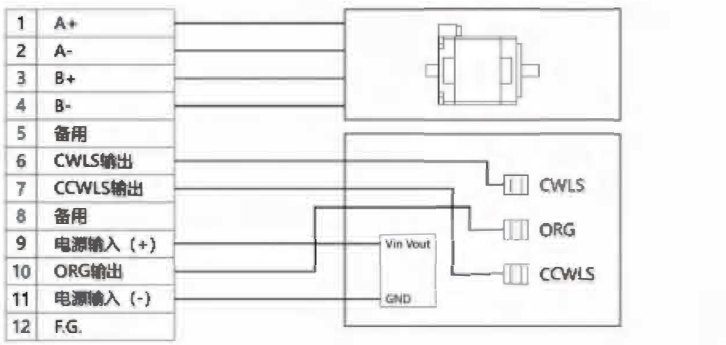
XY 160 – 40 – 1 – B2 – Q

- Q：电机
- B2：2米航插线
- 1：丝杆导程 1=1mm 2=2mm
- 40：移动行程
- 160：台面大小
- XY：XY轴两个方向

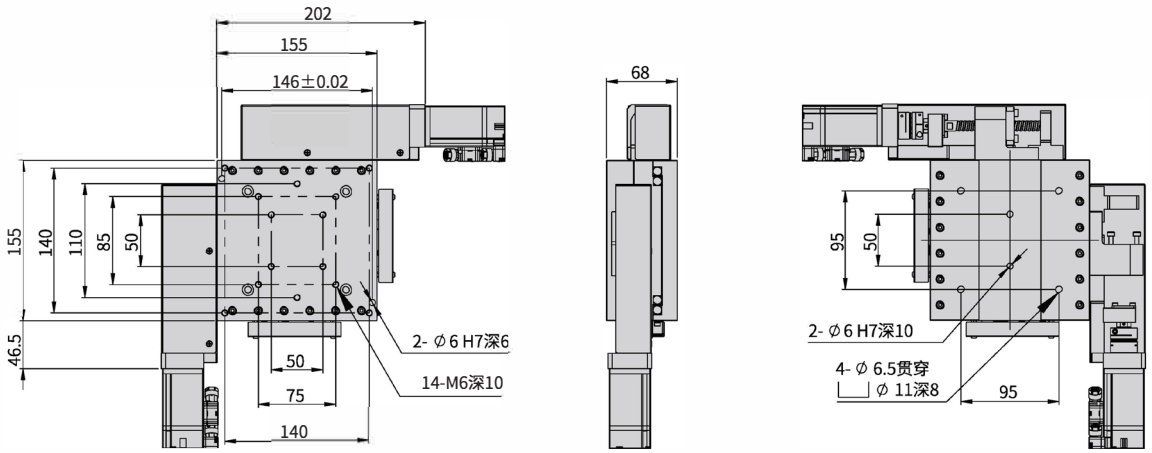
● 针脚排列图



● 接线图



XY160-40-2



型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	最大速度	负载	限位传感器	原点传感器
XY160-40-2	40mm	155x155mm	Φ10导程2	交叉滚子导轨	铝-阳极氧化	80mm/sec	40kgf	有	有

小角度旋转型

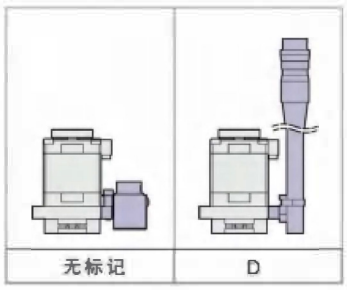




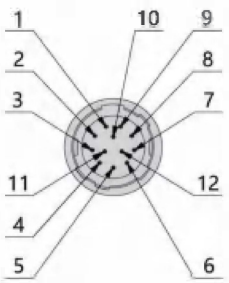
● 型号说明

MR H 40 17 – D – B2 – Q

- Q：电机
- B2：2米航插线
- D：出线方式，参考右图
- 17：行程(度)
- 40：圆盘外径（40：∅40；60：∅60）
- H：丝杆驱动

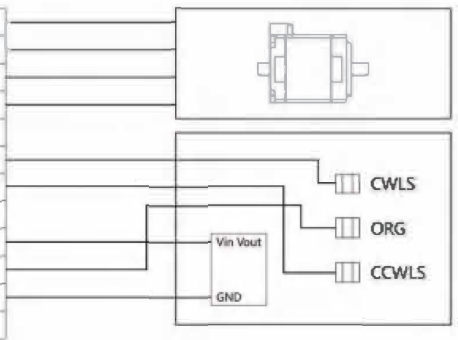


● 针脚排列图

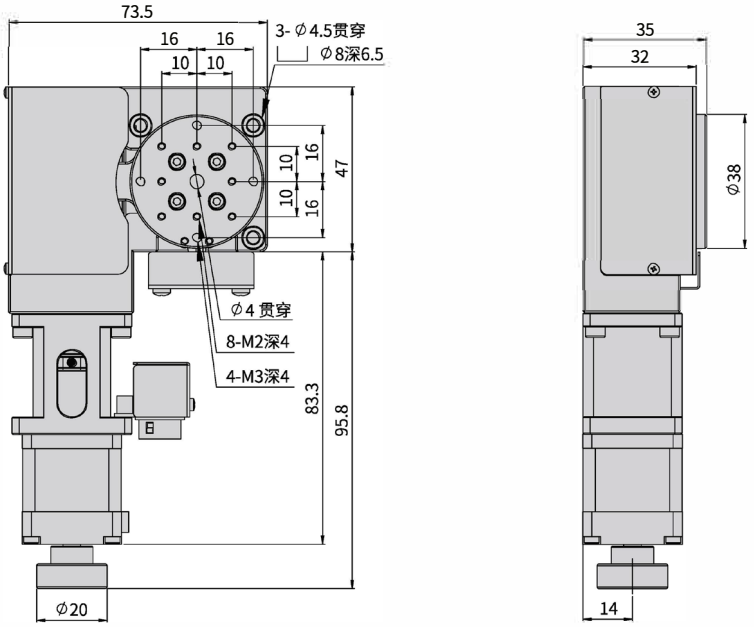


● 接线图

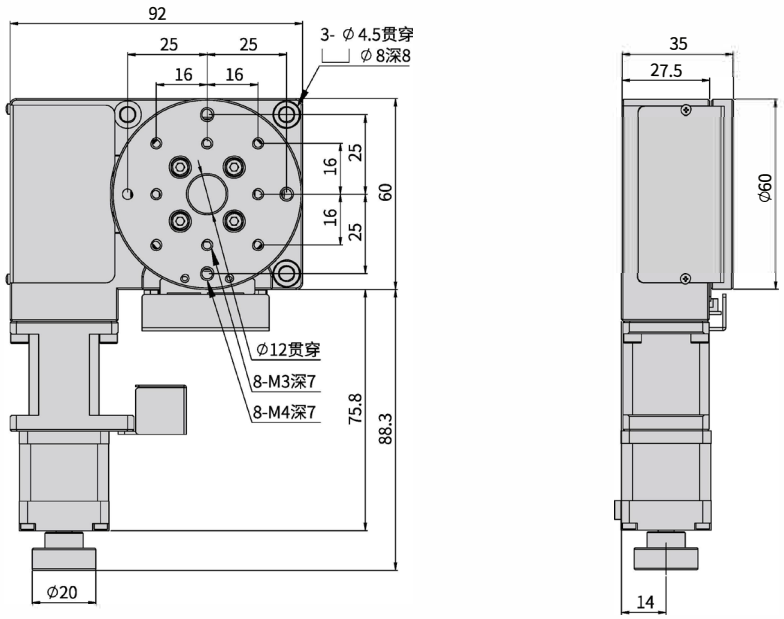
1	A+
2	A-
3	B+
4	B-
5	备用
6	CWLS输出
7	CCWLS输出
8	备用
9	电源输入（+）
10	ORG输出
11	电源输入（-）
12	F.G.



MRH40-17



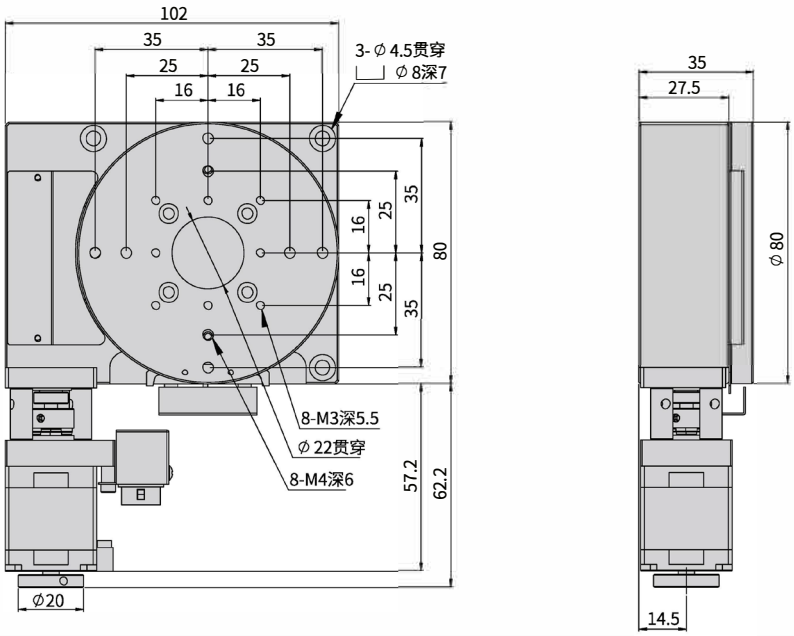
MRH60-11



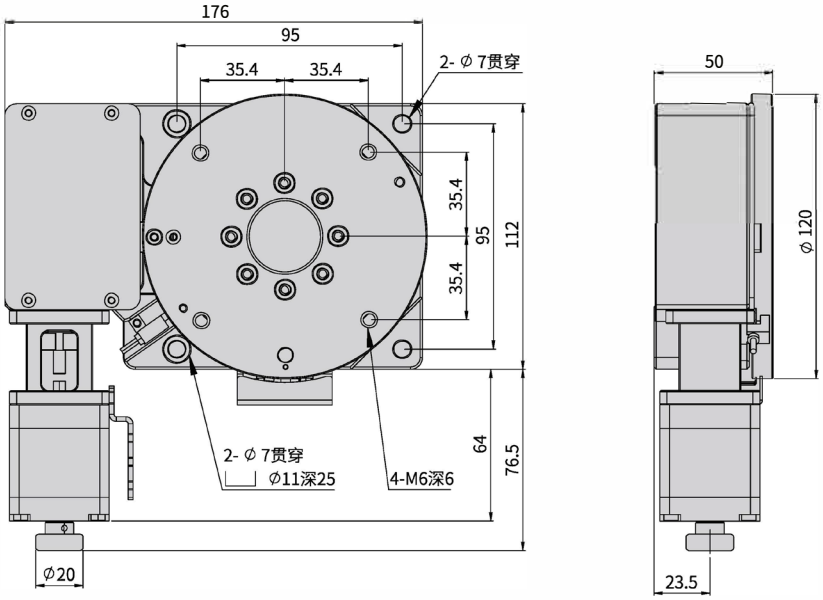
型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	重复定位精度	负载	空转	直线度	限位传感器	原点传感器
MRH40-17	17°	Φ40	Φ6 导程1	角接触轴承	铝-阳极氧化	0.45kg	Θ轴	102°/sec	±0.003°	4kgf	0.003°	30um以内	有	有
MRH60-11	11°	Φ60				0.66kg		64°/sec		6kgf				

小角度旋转型

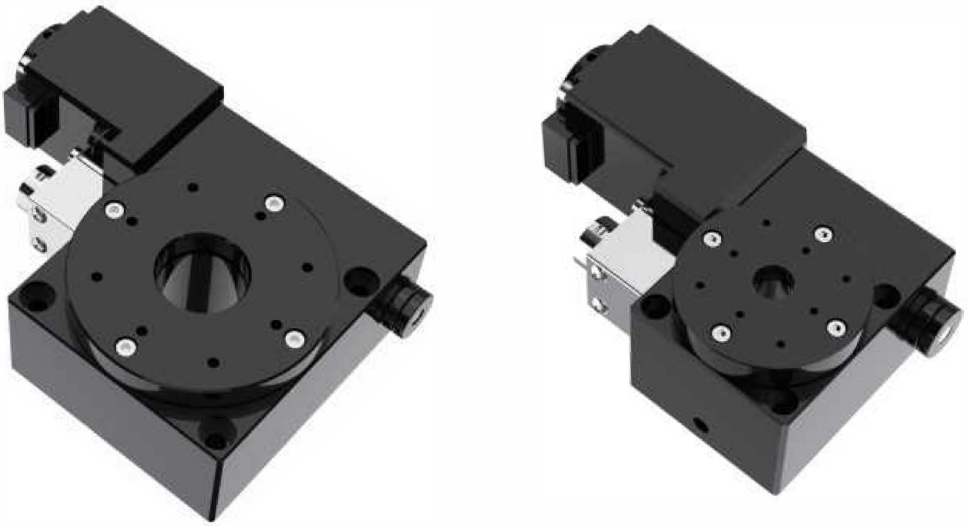
MRH80-20



MRH120-10



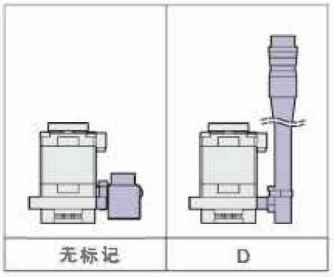
型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	重复定位精度	负载	空转	直线度	限位传感器	原点传感器
MRH80-20	20°	Φ80	Φ6导程1	角接触轴承	铝-阳极氧化	0.9kg	Θ轴	33°/sec	±0.003°	6kgf	0.003°	30um以内	有	有
MRH120-10	10°	Φ120	Φ8导程1			2.92kg		83°/sec		20kgf				



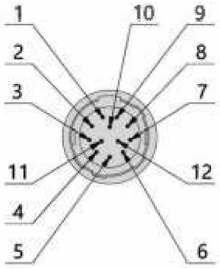
● 型号说明

M R W 40 – D – B2 – Q

- Q：电机
- B2：2米航插线
- D：出线方式，参考右图
- 40：台面大小
- W:蜗轮蜗杆驱动

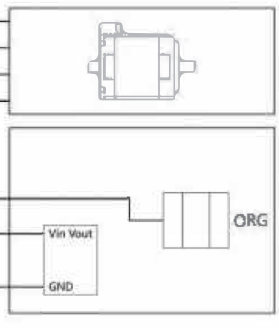


● 针脚排列图



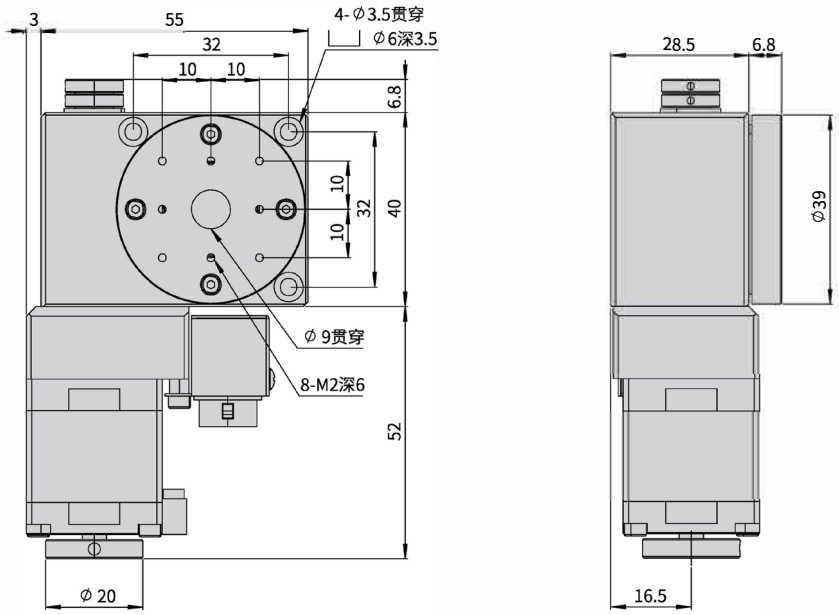
● 接线图

1	A+
2	A-
3	B+
4	B-
5	备用
6	备用
7	备用
8	备用
9	电源输入（+）
10	ORG输出
11	电源输入（-）
12	F.G.

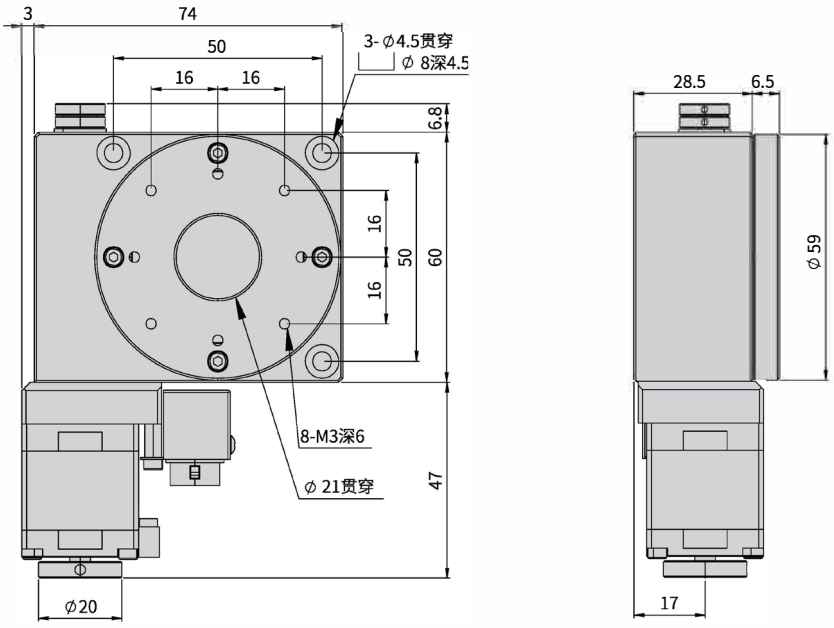


大角度旋转型

MRW40



MRW60



型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	重复定位精度	负载	空转	同心度	平行度	端面跳动	蜗轮蜗杆减速比	限位传感器	原点传感器
MRW40	360°	Φ39	蜗轮蜗杆	角接触轴承	铝-阳极氧化	0.45kg	Θ轴	30°/sec	±0.01°	3kgf	0.1°以内	30um	30um	30um	1/120	无	有
MRW60		Φ59				0.66kg		20°/sec							1/180		



● 型号说明

AGH X 60 50 – L – D – B2 – Q

- Q：电机
- B2：2米航插线
- D：出现位置，参考图1
- L：光电位置，参考图2
- 50：中心高度
- 60：台面大小
- X：移动方向 X:α轴一个方向；XY:α_β轴一个方向
- H:丝杆驱动

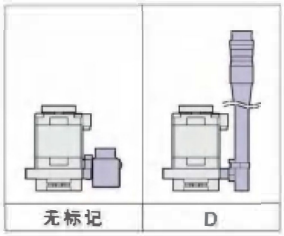


图1

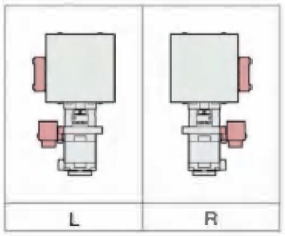
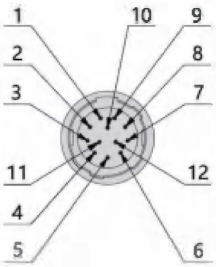


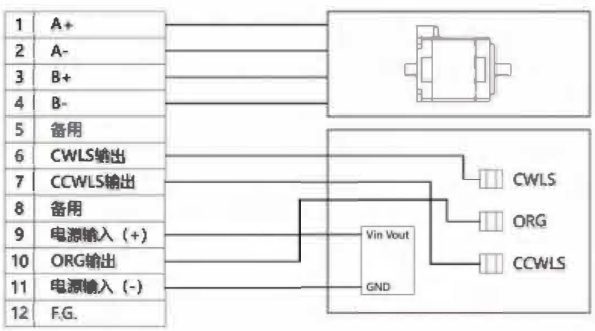
图2

● 针脚排列图



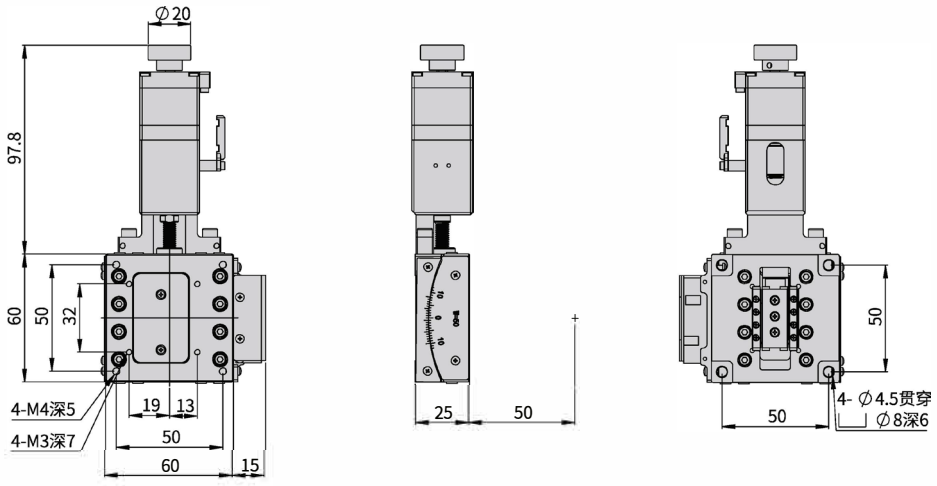
● 接线图

1	A+
2	A-
3	B+
4	B-
5	备用
6	CWLS输出
7	CCWLS输出
8	备用
9	电源输入（+）
10	ORG输出
11	电源输入（-）
12	F.G.

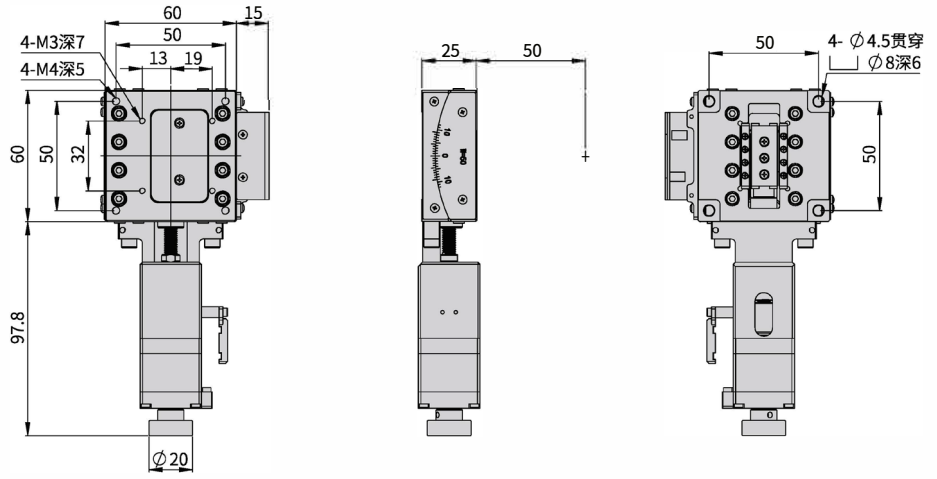


电动弧摆型

AGHX6050-L-D

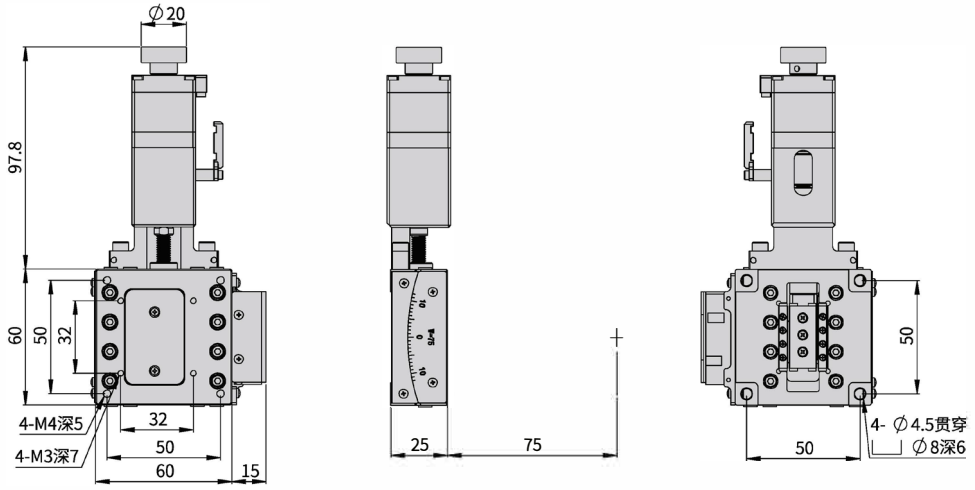


AGHX6050-R-D

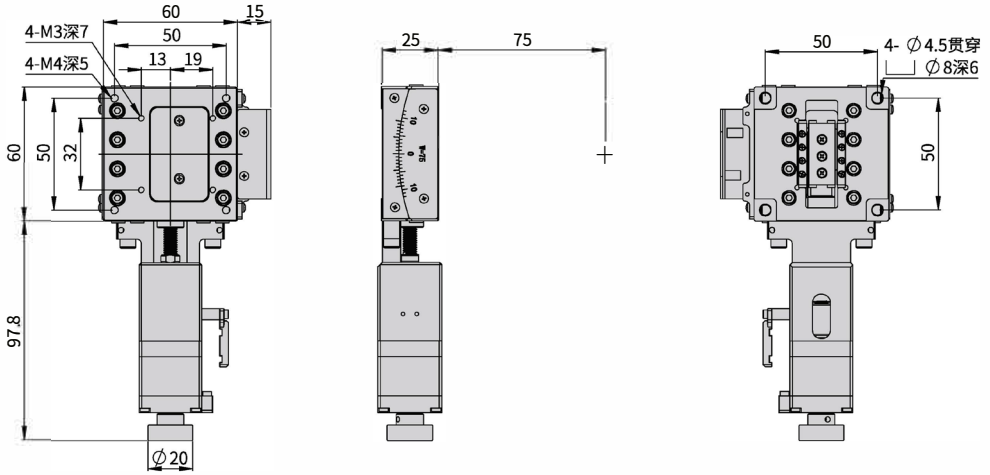


型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	旋转中心高度	滑台高度	负载	重复定位精度	空转	间隙	限位传感器	原点传感器
AGHX6050-L-D	±8.5°	60x60 mm	Φ6 导程1	交叉滚子导轨	铝-阳极氧化	0.5kg	α 轴	10.5° /sec	50±0.2 mm	25±0.2 mm	5kgf	±0.001°	0.003° 以内	0.003° 以内	有	有
AGHX6050-R-D																

AGHX6075-L-D



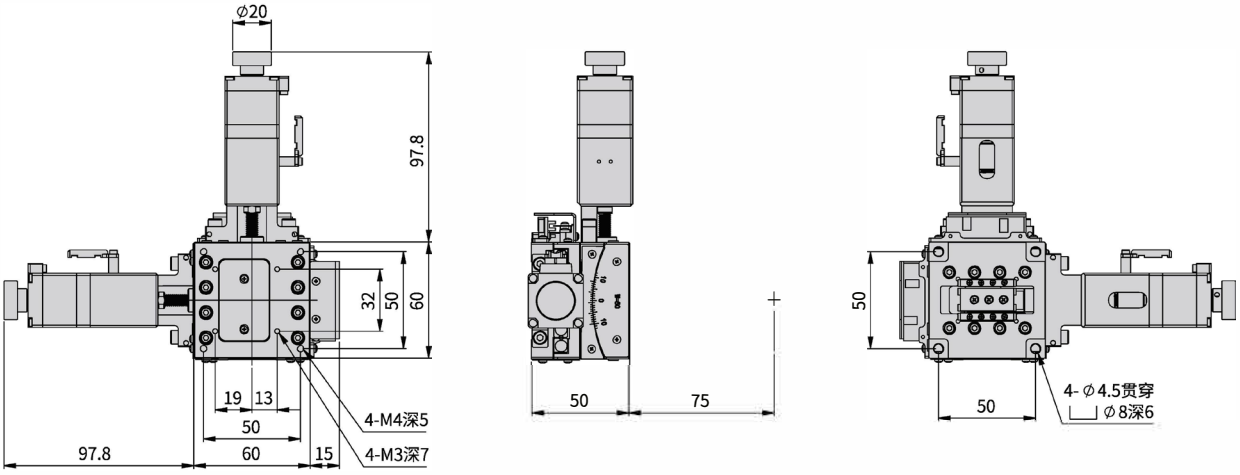
AGHX6075-R-D



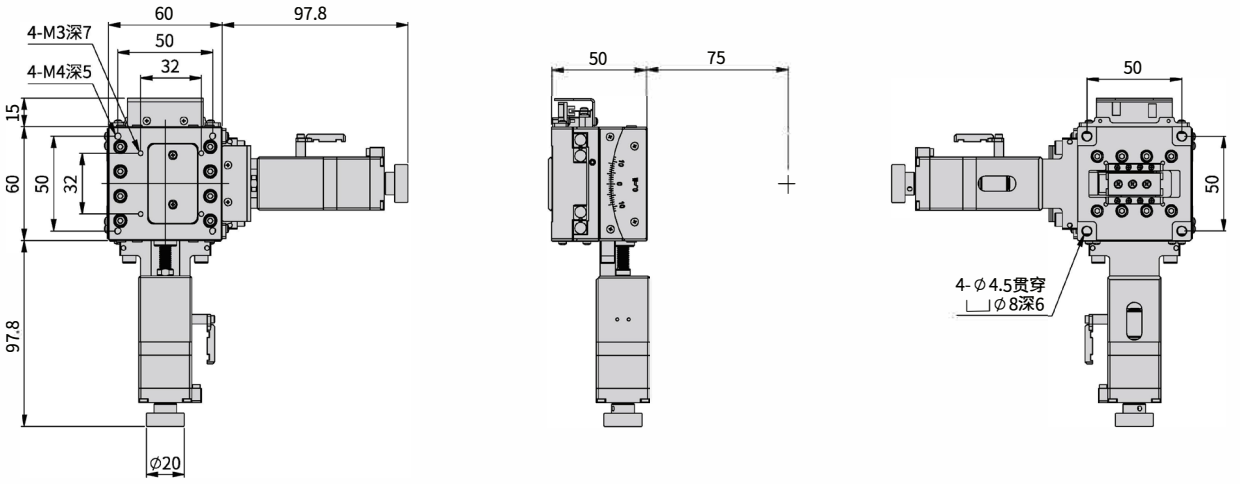
型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	旋转中心高度	滑台高度	负载	重复定位精度	空转	间隙	限位传感器	原点传感器
AGHX6075-L-D	±5.5°	60x60 mm	Φ6 导程1	交叉滚子导轨	铝-阳极氧化	0.5kg	α 轴	7° /sec	75±0.2 mm	25±0.2 mm	5kgf	±0.001°	0.003° 以内	0.003° 以内	有	有
AGHX6075-R-D																

电动弧摆型

AGHXY6075-L-D

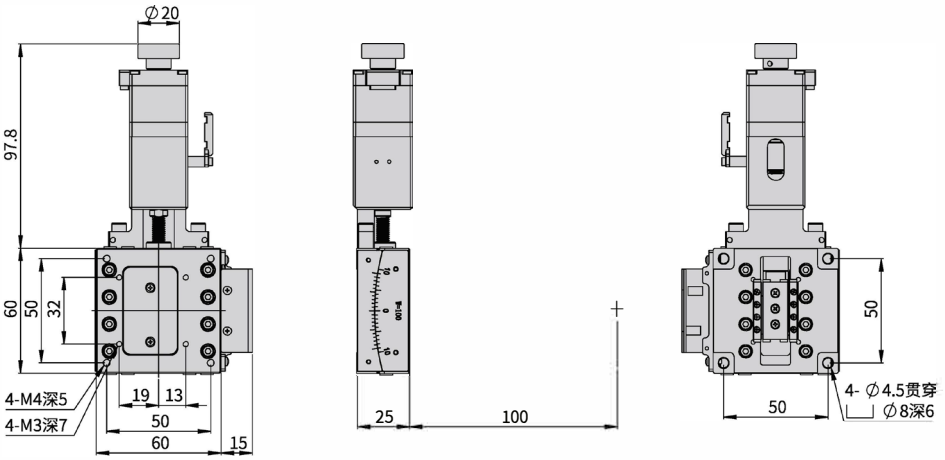


AGHXY6075-R-D

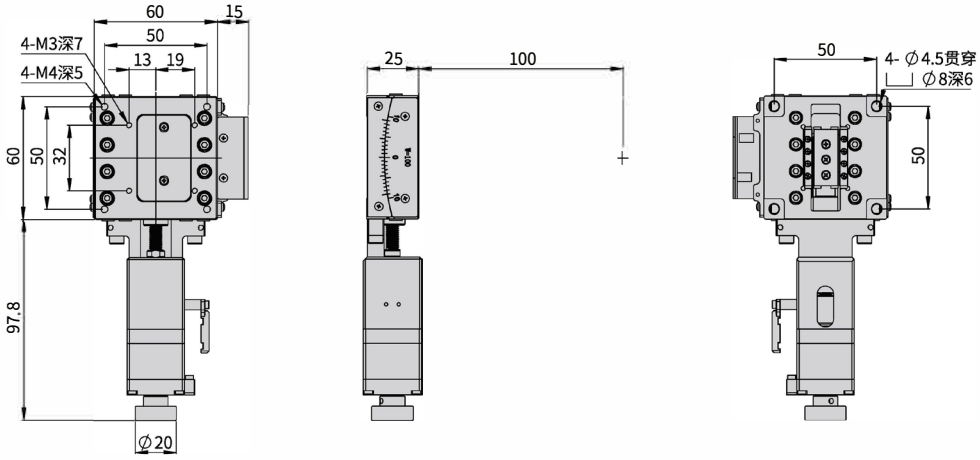


型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	旋转中心高度	滑台高度	负载	重复定位精度	空转	间隙	限位传感器	原点传感器
AGHXY6075-L AGHXY6075-R	上轴±5.5° 下轴5°	60x60 mm	Φ6 导程1	交叉滚子导轨	铝-阳极氧化	1kg	α β轴	上轴7°/sec 下轴5.5°/sec	75±0.4 mm	50±0.4 mm	4.5kgf	±0.001°	0.003°以内	0.003°以内	有	有

AGHX60100-L-D



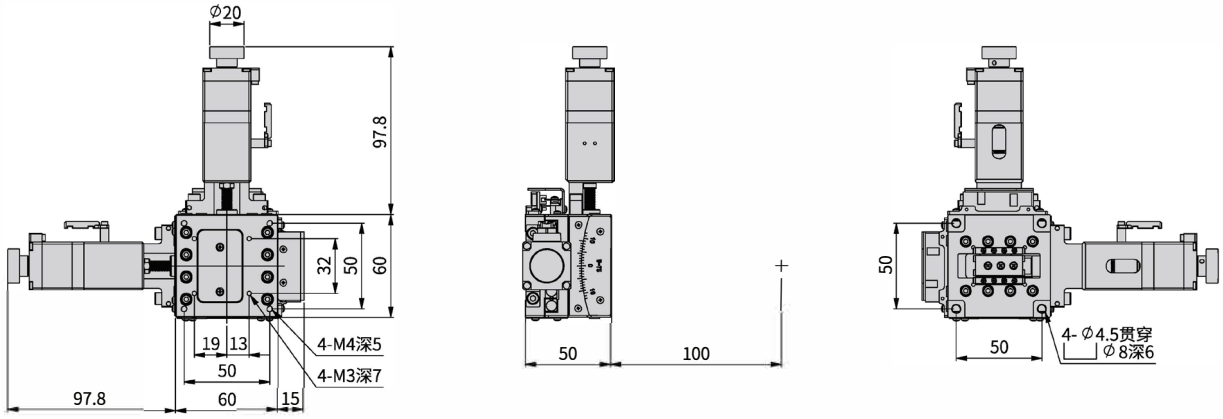
AGHX60100-R-D



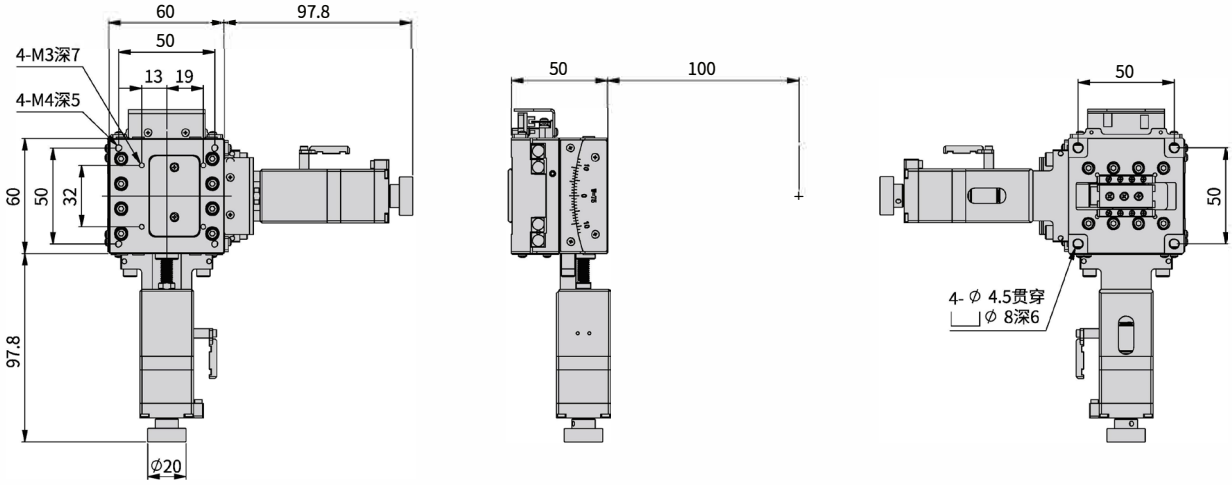
型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	旋转中心高度	滑台高度	负载	重复定位精度	空转	间隙	限位传感器	原点传感器
AGHX60100-L	±5°	60x60 mm	Φ6 导程1	交叉滚子导轨	铝-阳极氧化	0.5kg	α轴	5.5°/sec	100±0.2 mm	25±0.2 mm	5kgf	±0.001°	0.003°以内	0.003°以内	有	有
AGHX60100-R																

电动弧摆型

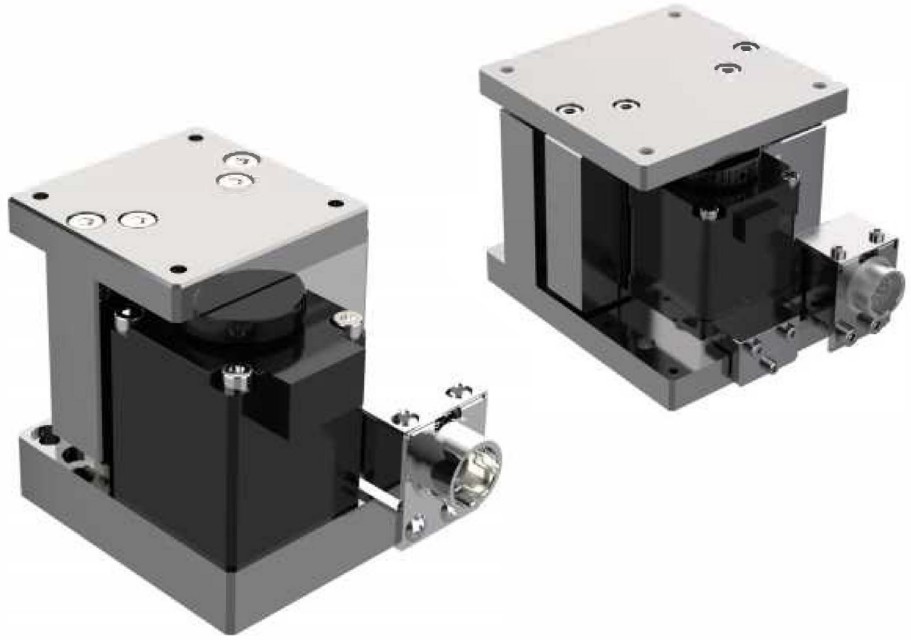
AGHXY60100-L-D



AGHXY60100-R-D



型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	旋转中心高度	滑台高度	负载	重复定位精度	空转	间隙	限位传感器	原点传感器
AGHXY60100-L	上轴±5° 下轴±4°	60x60 mm	Φ6 导程1	交叉滚子导轨	铝-阳极氧化	1kg	α β轴	上轴 5.5°/sec 下轴 4.5°/sec	100±0.2 mm	50±0.4 mm	4kgf	±0.001°	0.003° 以内	0.003° 以内	有	有
AGHXY60100-R																

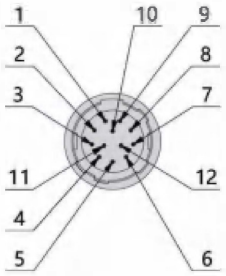


● 型号说明

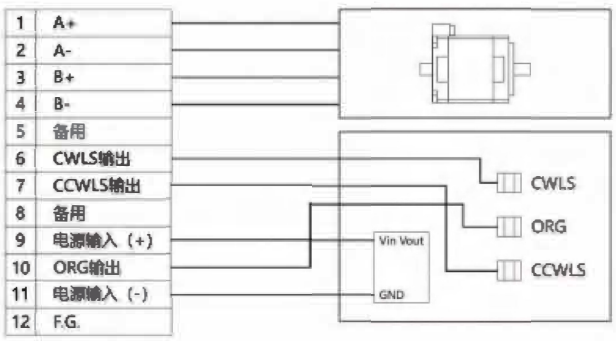
VM Z 4 6 – F – B2 – Q

- Q：电机
- B2：2米航插线
- F：材质：钢
- 6：高度 6:60*60
- 4：台面大小 4:40*40
- Z：移动方向 Z轴一个方向

● 针脚排列图

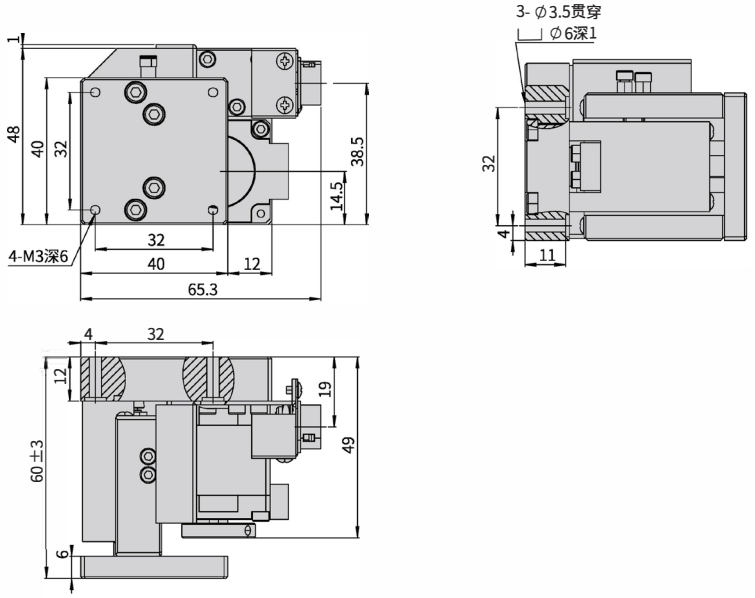


● 接线图

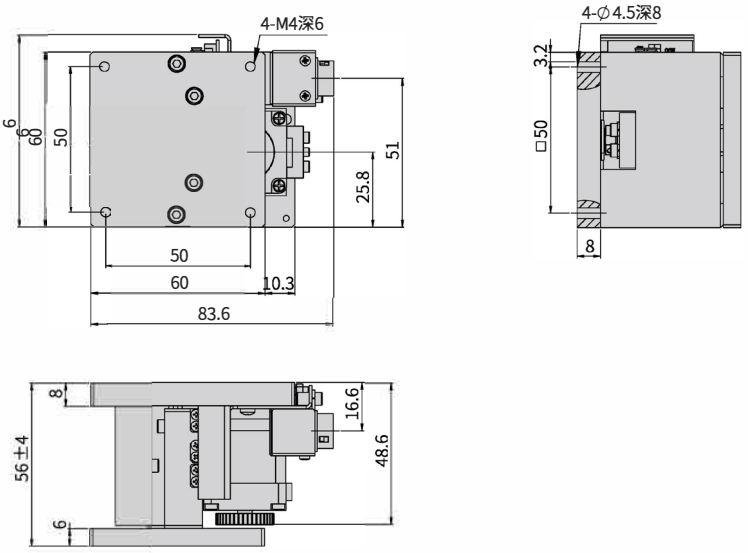


水平升降型

VMZ46-F



VMZ68-F



型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	移动方向	最大速度	单向定位精度	重复定位精度	负载	平行度	限位传感器	原点传感器
VMZ46-F	6mm	40x40mm	Φ6 导程1	直线导轨	钢-镀镍	0.54kg	Z轴	10mm /se c	30um	±5um	3kgf	50um 以内	有	有
VMZ68-F	8mm	60x60mm	Φ8 导程1			0.95kg					4kgf			

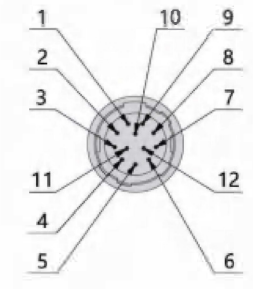


● 型号说明

T Z 60 – 04 – B2 – Q

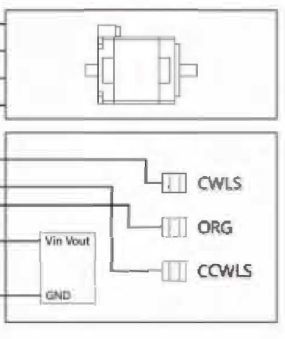
- Q：电机
- B2：2米航插线
- 04：移动行程
- 60：台面大小
- Z：移动方向　Z轴一个方向

● 针脚排列图



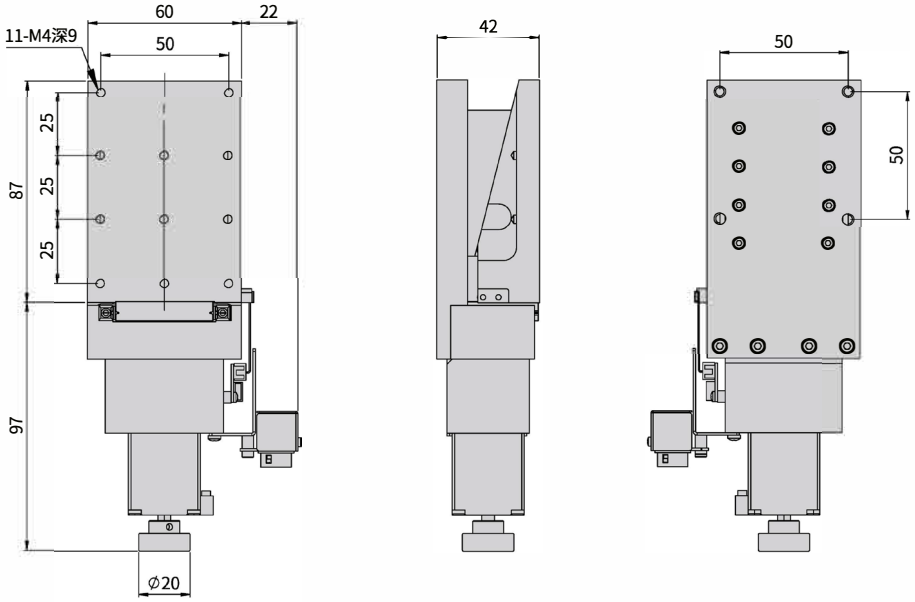
● 接线图

1	A+
2	A-
3	B+
4	B-
5	备用
6	CWLS输出
7	CCWLS输出
8	备用
9	电源输入（+）
10	ORG输出
11	电源输入（-）
12	F.G.

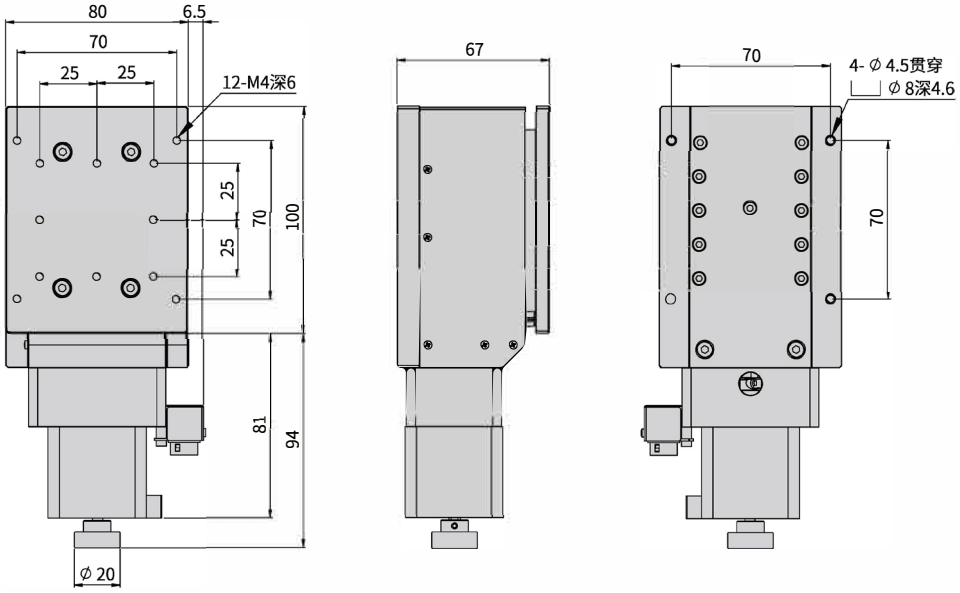


精密水平升降型

TZ60-04

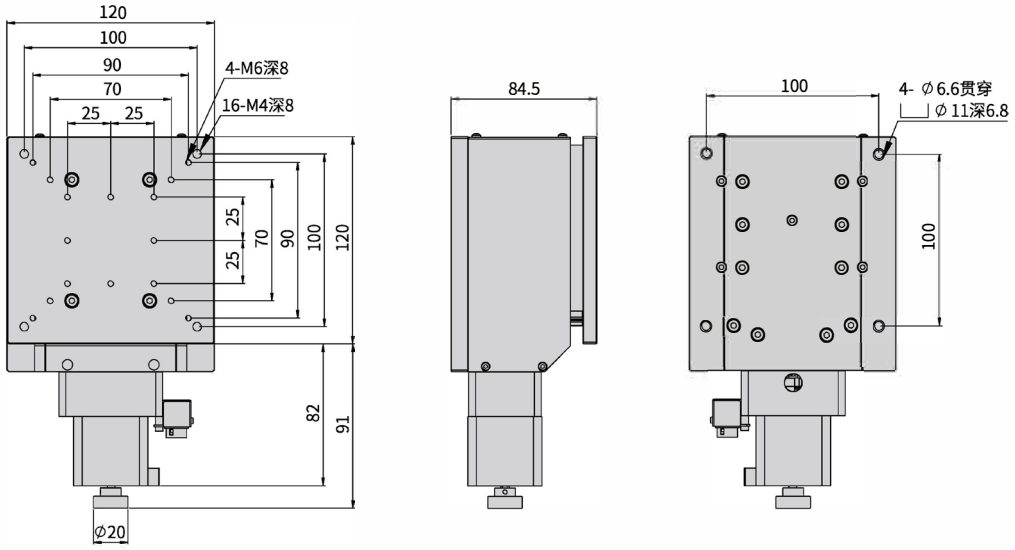


TZ80-08

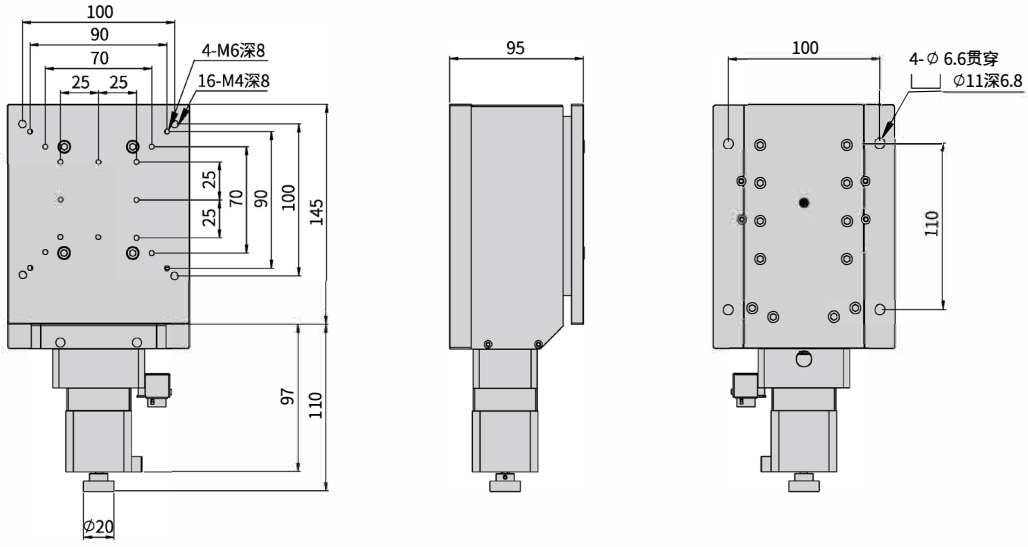


型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	最大速度	单向定位精度	重复定位精度	负载	直线度	平行度	限位传感器	原点传感器
TZ60-04	±2mm	60x88mm	Φ6 导程1	交叉滚子导轨	铝-阳极氧化	约1.14kg	10mm /sec	12um 以内	±1um	7kgf	3um 以内	15um 以内	有	有
TZ80-08	±4mm	60x88mm				约2.5kg				20kgf		30um 以内		

TZ12-12



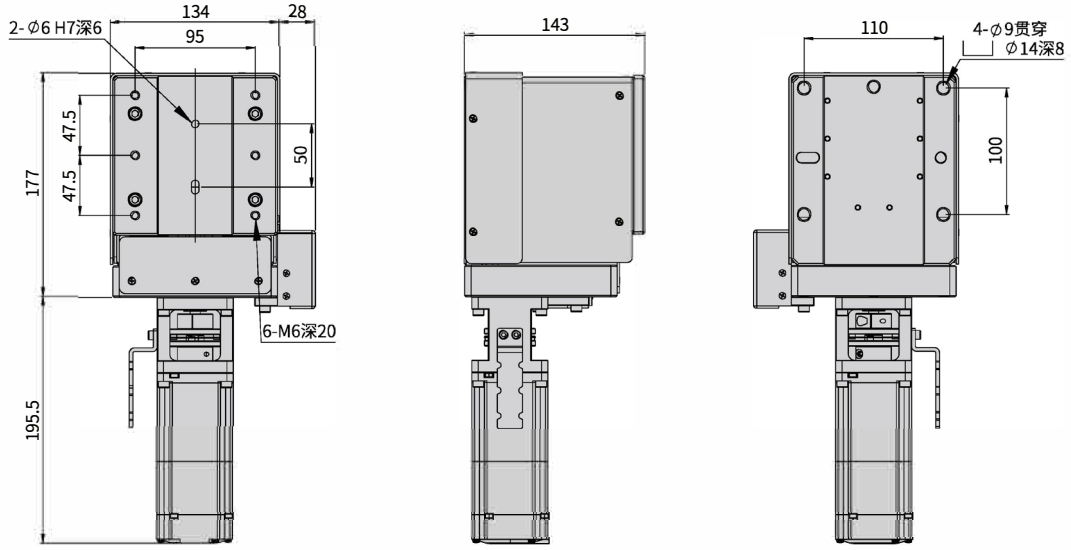
TZ12-20



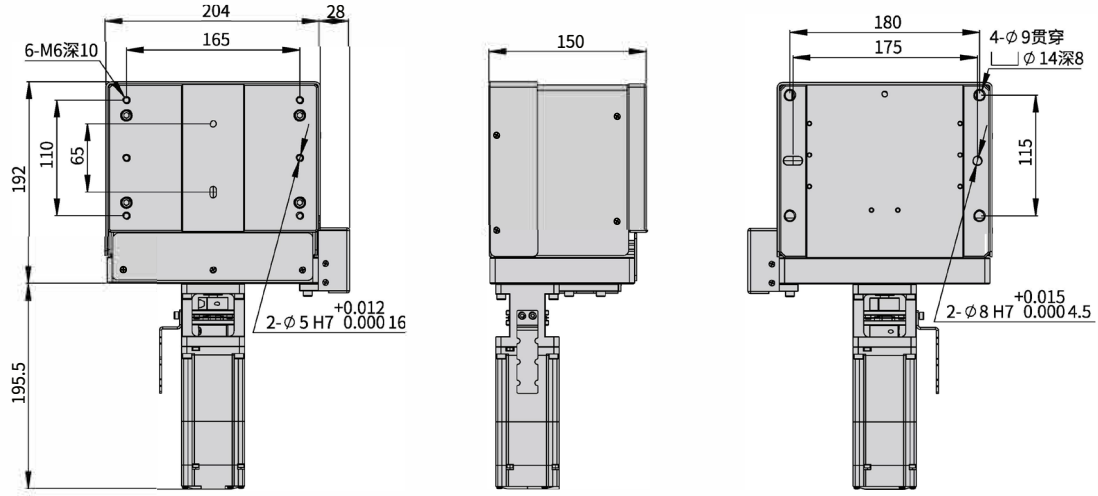
型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	最大速度	单向定位精度	重复定位精度	负载	直线度	平行度	限位传感器	原点传感器
TZ12-12	±6mm	120x120 mm	Φ8 导程1	交叉滚子导轨	铝-阳极氧化	约4kg	10mm /sec	12um 以内	±1um 以内	20kgf	3um 以内	50um 以内	有	有
TZ12-20	±10mm	120x145 mm												

精密水平升降型

TZ130-10

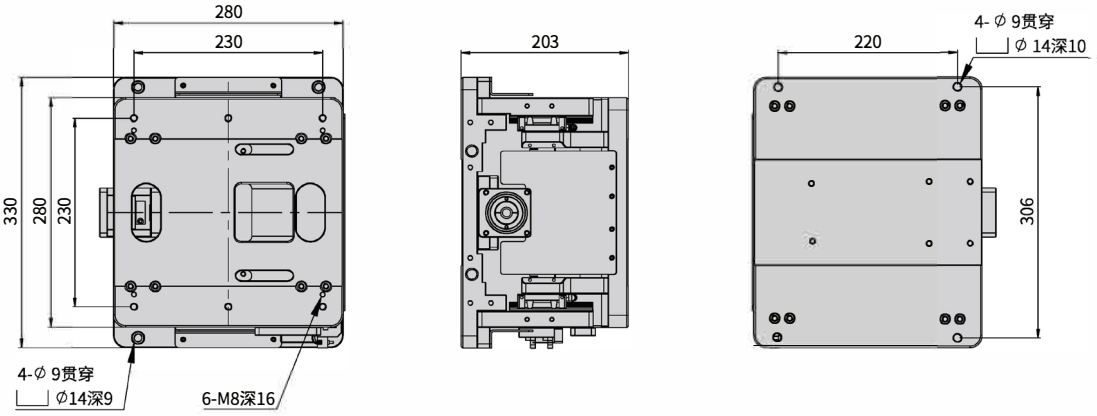


TZ200-20

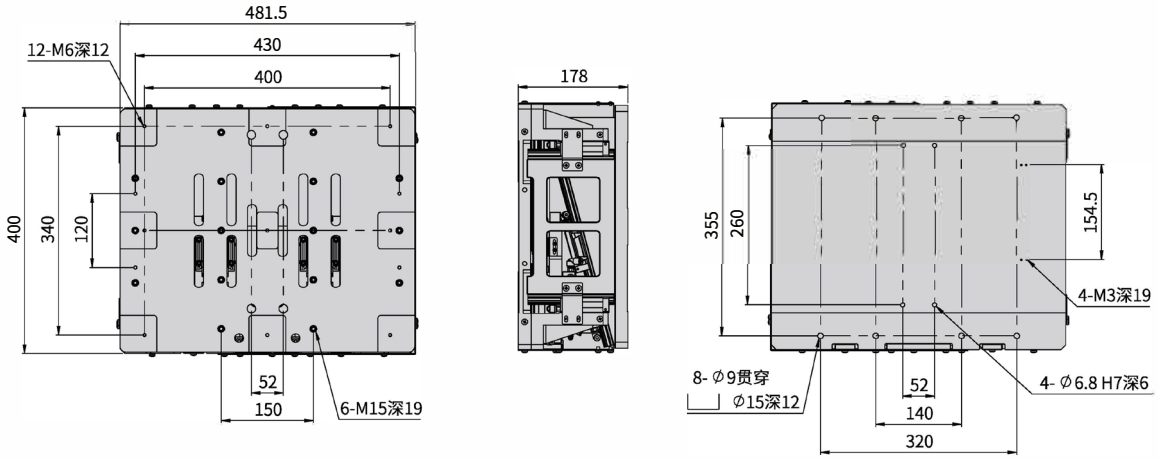


型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	最大速度	单向定位精度	重复定位精度	负载	直线度	平行度	限位传感器	原点传感器
TZ130-10	10mm	130x126 mm	Φ12 导程2	直线导轨	铝-阳极氧化	约10kg	20mm /sec	12um 以内	±2um	40kgf	3um 以内	30um 以内	有	有
TZ200-20	20mm	200x141 mm				约13kg				60kgf		30um 以内		

TZ280-30



TZ480-30



型号	移动量	滑台面尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	最大速度	单向定位精度	重复定位精度	负载	直线度	平行度	限位传感器	原点传感器
TZ280-30	30mm	280x230 mm	Φ12 导程2	直线导轨	铝-阳极氧化	约26kg	30mm /sec	8um	±3um	40kgf	3um 以内	10mm	有	有
TZ480-30	30mm	480x396 mm	Φ16 导程5			约50kg	250mm /sec		±2um	60kgf		50um 以内		

超薄式一体型



● 型号说明

A XYR 60 – 001 – R – CB – B2 – Q

- Q：电机
- B2：2米航插线
- CB：超薄款
- R：光电位置，参考图2
- 001：光电侧接
002：光电直连
- 60：台面大小
- A XYR：移动方向　XYR轴三个方向

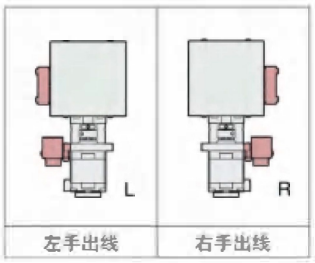
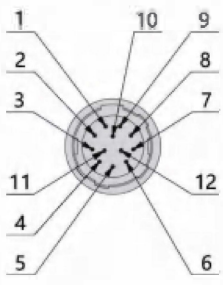
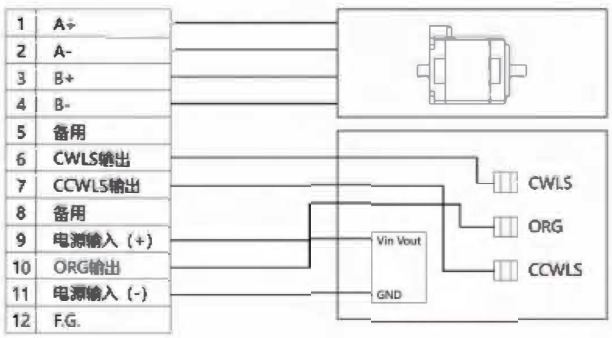


图2

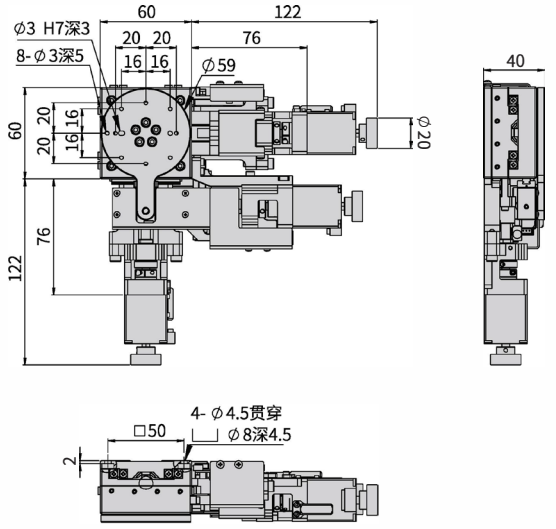
● 针脚排列图



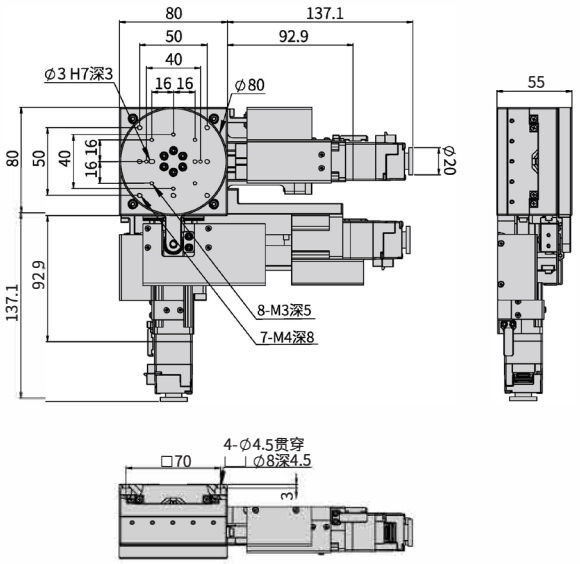
● 接线图



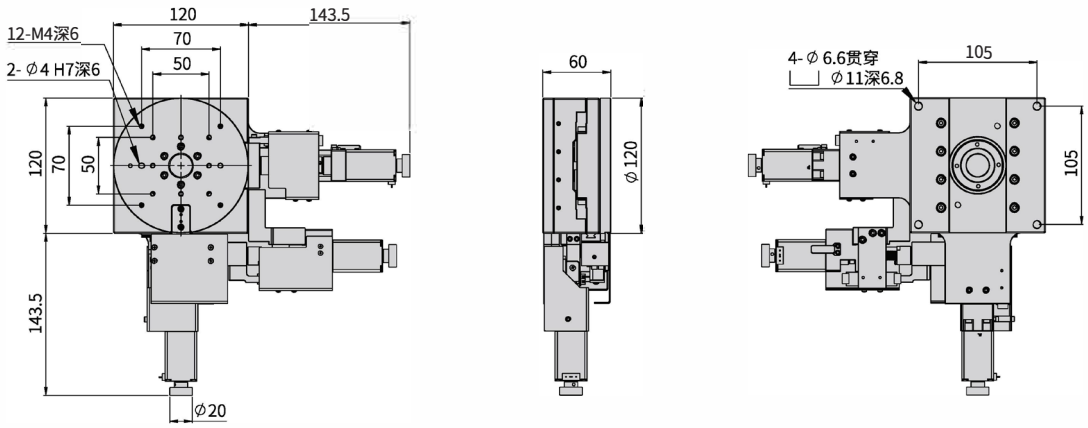
AXYR60-R-CB



AXYR80-R-CB



AXYR120-R-CB

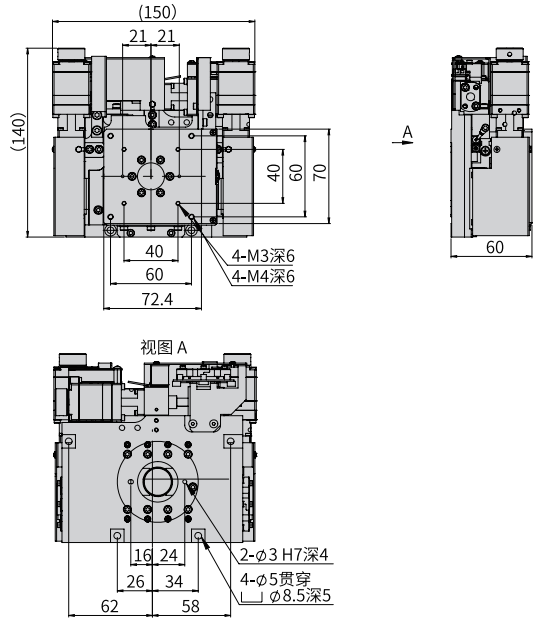


型号	移动量	滑台面尺寸	XY轴行程	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	XY轴最大速度	Θ轴最大速度	XY轴单向精度	XY轴重复精度	Θ轴单向精度	Θ轴重复精度	负载	平行度	限位传感器	原点传感器
AXYR60-R-CB	±8.5°	60x60 mm	±7.5 mm	Φ6 导程1	交叉滚子导轨	铝-阳极氧化	约2.12kg	10mm/sec	8mm/sec	10um以内	±1um	0.05°	±0.01°	6kgf	30um	有	有
AXYR80-R-CB	±10°	80x80 mm	±12 mm	Φ8 导程1			约2.34kg							10kgf			
AXYR120-R-CB	±10°	120x120 mm	±15 mm				约2.86kg							25kgf			

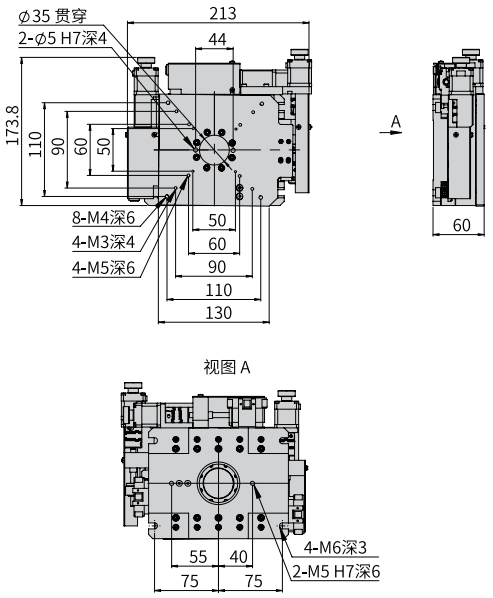
超薄式一体型



AXYR70-CB

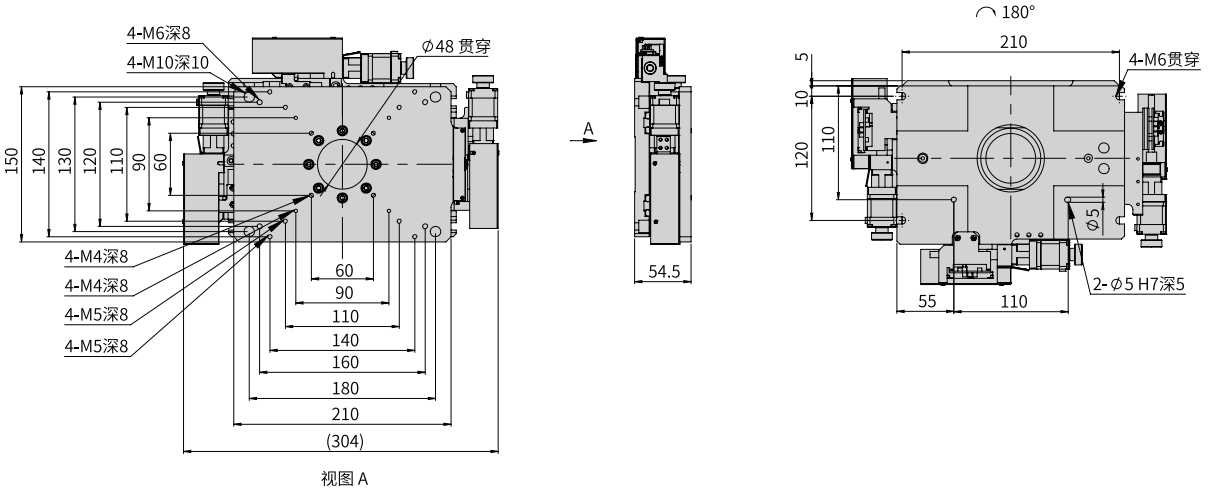


AXYR130-CB



型号	移动量	滑台面尺寸	XY轴行程	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	XY轴最大速度	Θ轴最大速度	XY轴单向精度	XY轴重复精度	Θ轴单向精度	Θ轴重复精度	负载	平行度	限位传感器	原点传感器
AXYR70-CB	±5°	70x70 mm	±5 mm	Φ6 导程1	交叉滚子导轨	铝-阳极氧化	约2.25kg	10mm /sec	12.7° /sec	10um 以内	±1um	0.05°	± 0.003°	7kgf	30um	有	有
AXYR130-CB		130x130 mm	±5 mm				约4kg		6.74° /sec					20kgf			

AXYR200-CB



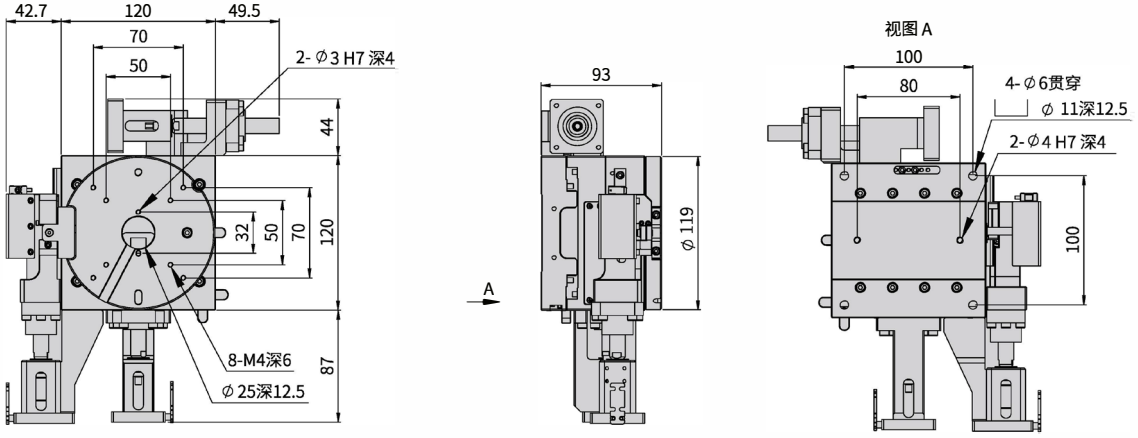
视图 A

型号	移动量	滑台面尺寸	XY轴行程	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	XY轴最大速度	Θ轴最大速度	XY轴单向精度	XY轴重复精度	Θ轴单向精度	Θ轴重复精度	负载	平行度	限位传感器	原点传感器
AXYR200-CB	±5°	210x150 mm	±15 mm	Φ6 导程1	直线导轨	铝-阳极氧化	约5.15kg	10mm/sec	4.98°/sec	10um以内	±1um	0.05°	±0.003°	35kgf	30um	有	有

超薄式一体型

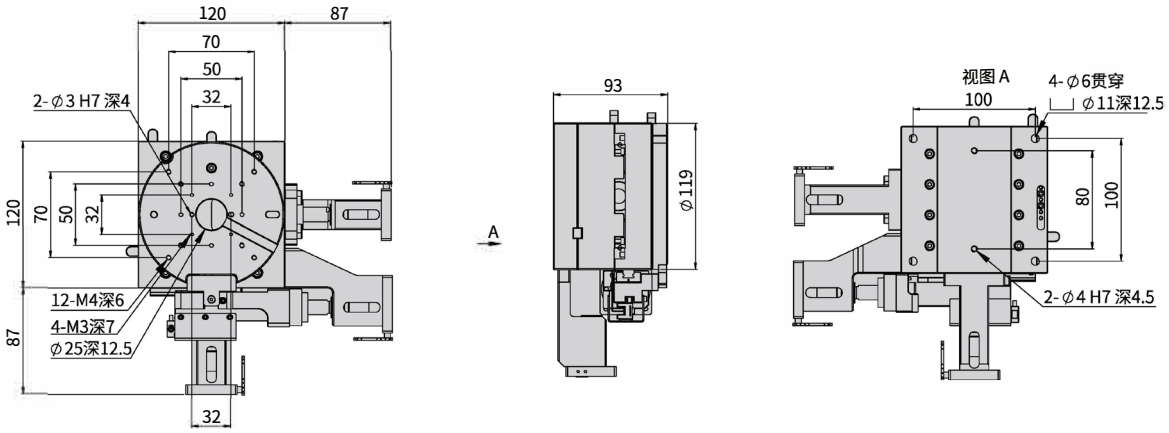


AXYR120-001-R



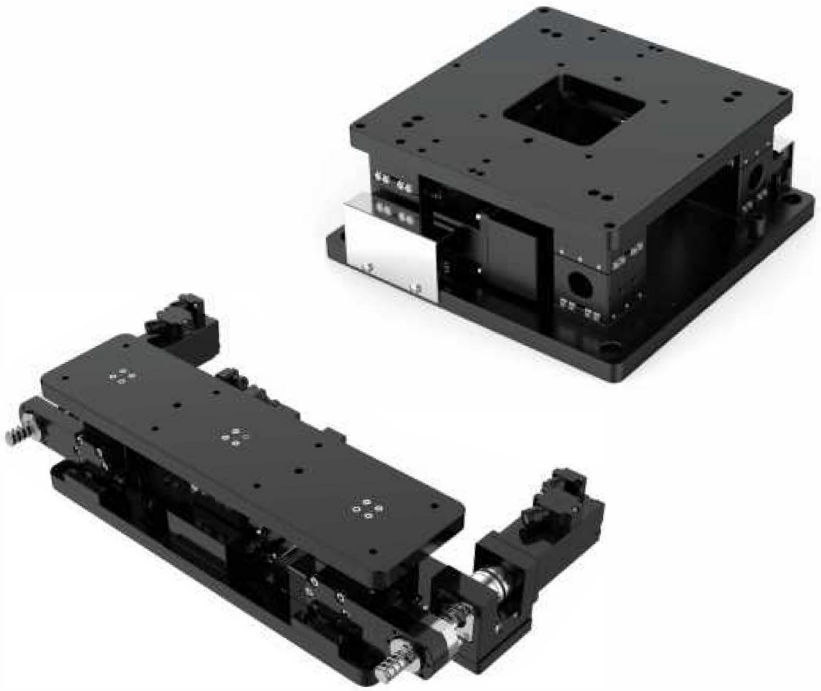
型号	XY轴行程	R轴行程	滑台面尺寸	导轨	主材质-表面处理	自重	最大速度	XY轴单向定位精度	R轴单向定位精度	XY轴重复定位精度	R轴重复定位精度	负载	平行度	限位传感器	原点传感器
AXYR120-001-R	±20 mm	±10.2°	120x120 mm	交叉滚子导轨	铝-阳极氧化	约4.8kg	100mm /sec	0.015 mm	0.06°	±0.005 mm	±0.012°	25kgf	0.06mm	有	有

AXYR120-002-R



型号	XY轴行程	R轴行程	滑台面尺寸	导轨	主材质-表面处理	自重	最大速度	XY轴单向定位精度	R轴单向定位精度	XY轴重复定位精度	R轴重复定位精度	负载	平行度	限位传感器	原点传感器
AXYR120-002-R	±20 mm	±10°	120x120 mm	交叉滚子导轨	铝-阳极氧化	约4.8kg	100mm /sec	0.015 mm	0.06°	±0.005 mm	±0.012°	25kgf	0.06mm	有	有

UVW对位平台



Product Application Introduction

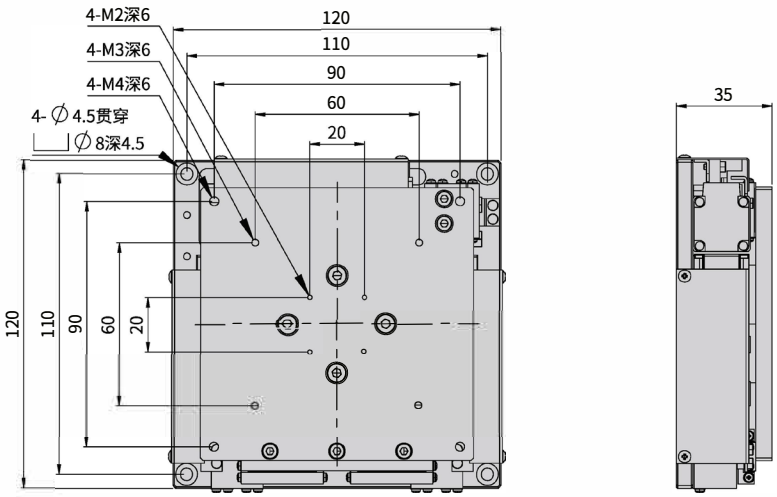
The UVW precision alignment workbench produced and developed by our company has precise alignment and small size. The overall modular design structure is compact, occupying small space, light weight, and good rigidity. It can be widely used in various automation equipment such as panel bonding machines, panel bonding machines, semiconductor equipment, software cutting and bonding equipment, PCB exposure equipment, 3D curved surface bonding equipment, etc. The repeated positioning accuracy can reach micrometer level, thus helping customers solve various precise alignment work

● **型号说明**

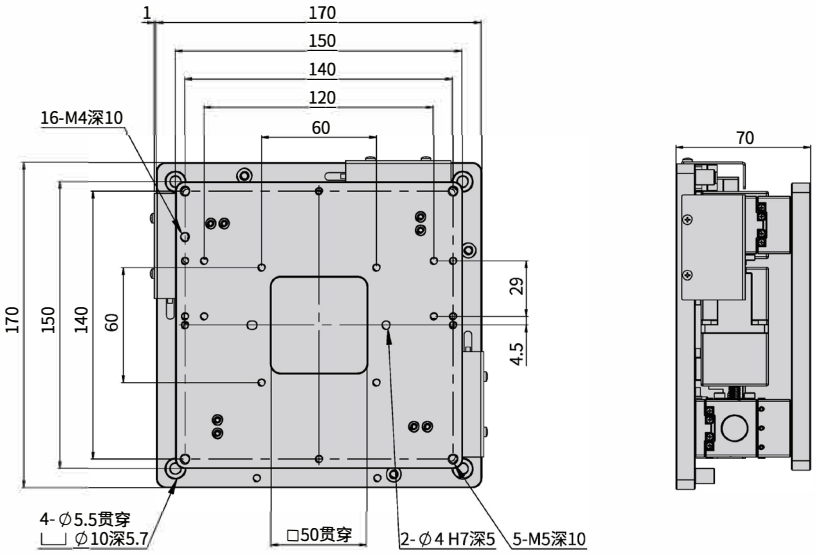
XXY 100 – 35 – 1 – SJ/YZ – M – B2 – Q

- Q：电机
- B2：2米航插线
- M：镜像
- SJ/YZ：SJ：三角型 YZ：一字型
- 1：丝杆导程
- 35：台面厚度
- 100：台面大小
- XXY：UVW系列

XXY100-35-1



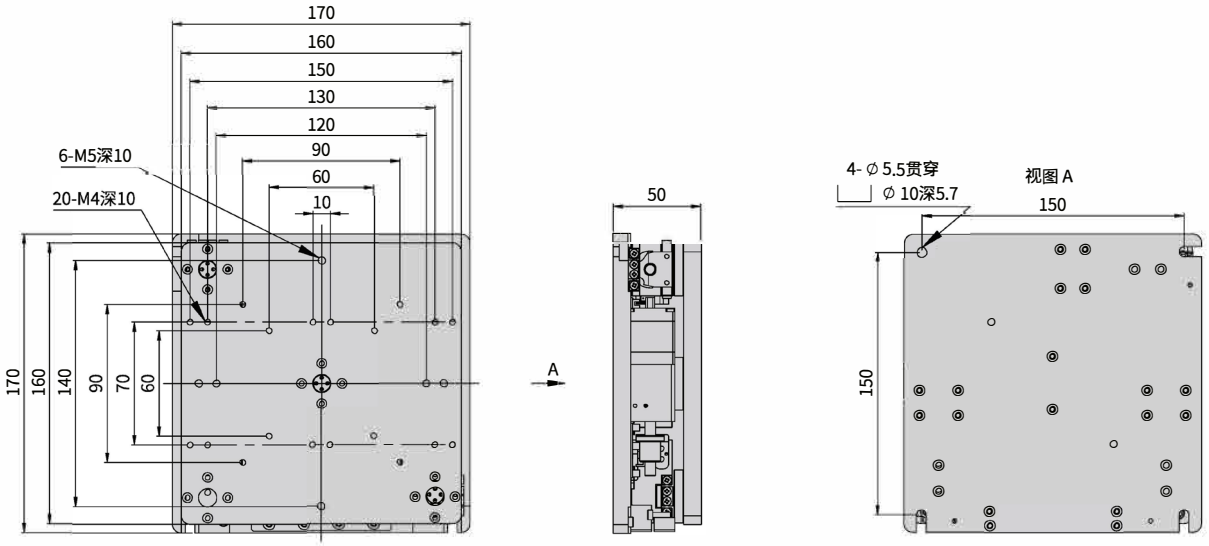
XXY150-70-1



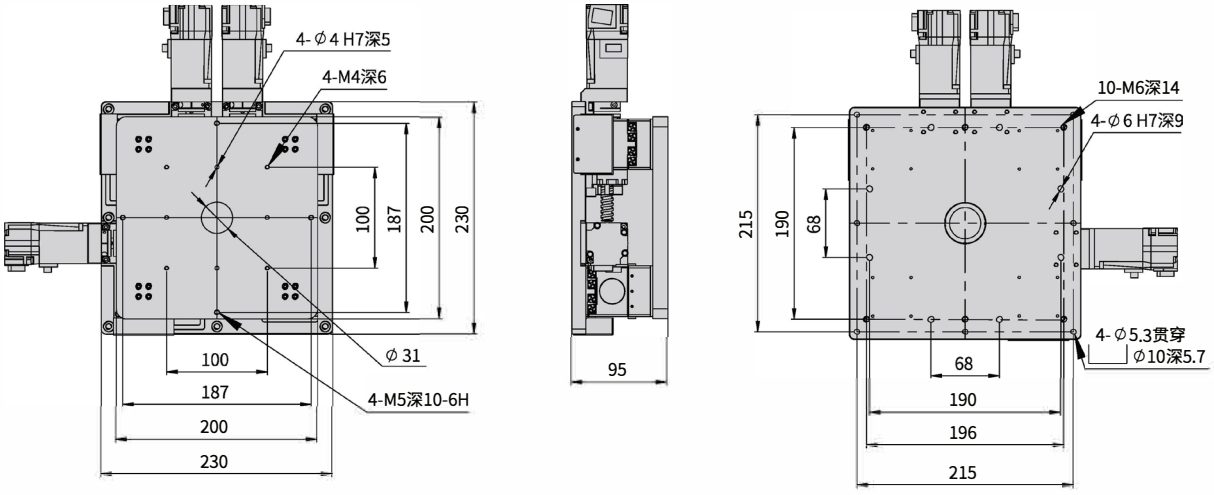
型号	移动量	滑台面尺寸	基座尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	角度	台面平面度	单向定位精度	重复定位精度	负载	平行度	限位传感器	原点传感器
XXY100-35-1	±2mm	100×100 mm	120×120 mm	Φ4 导程1	交叉滚子导轨	铝-阳极氧化	约2.2kg	±2°	30um 以内	8um 以内	±2um 以内	10kg	30um 以内	有	有
XXY150-70-1	±5mm	150×150 mm	170×170 mm	Φ10 导程1			约2.8kg	±3°	30um 以内						

UVW对位平台

XXY160-50-1

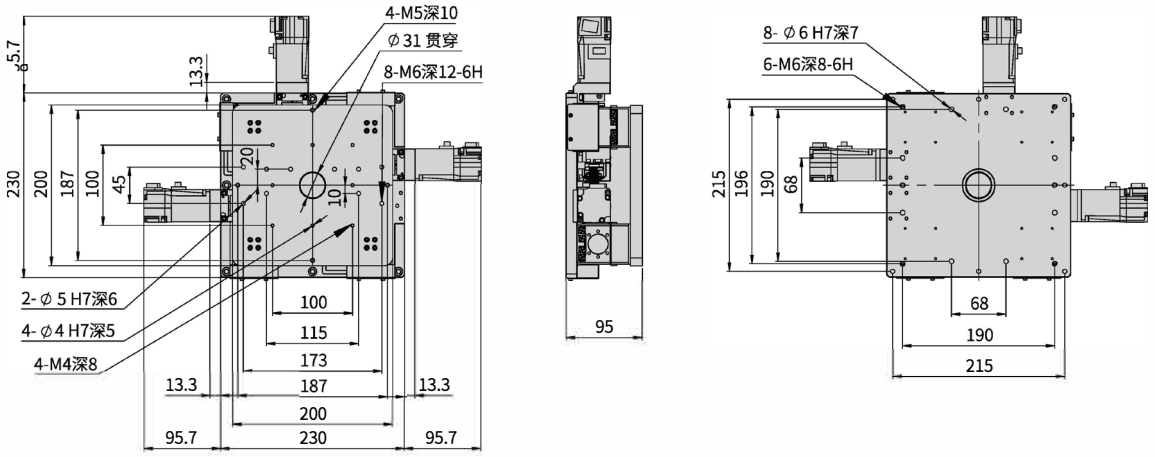


XXY200-95-5

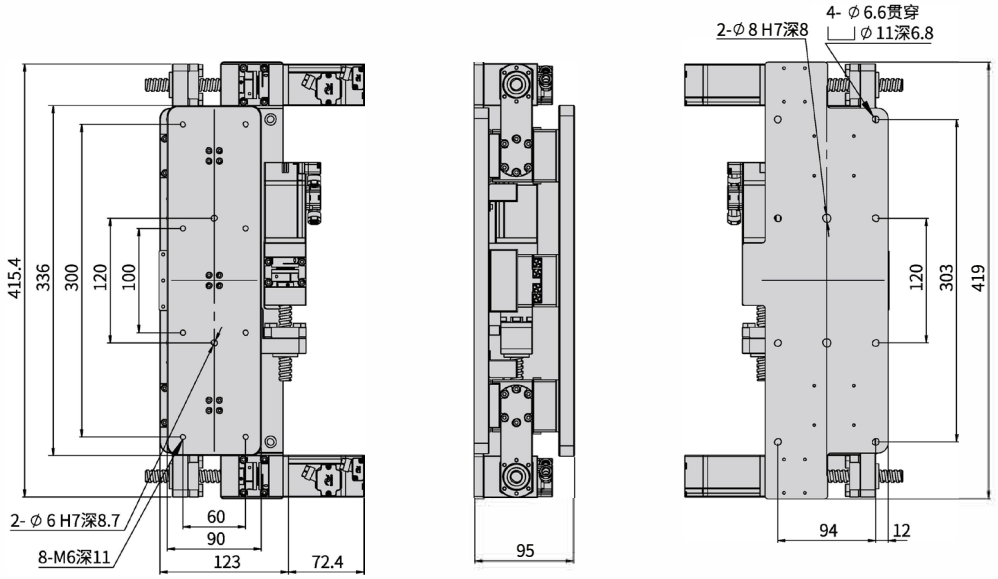


型号	移动量	滑台面尺寸	基座尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	角度	台面平面度	单向定位精度	重复定位精度	负载	平行度	限位传感器	原点传感器
XXY160-50-1	±4mm	160×160 mm	170×170 mm	Φ6 导程1	交叉滚子导轨	铝-阳极氧化	约3kg	±3.5°	40um 以内	8um 以内	±4um 以内	30kg	30um 以内	有	有
XXY200--95-5	±15mm	200×200 mm	230×230 mm	Φ12 导程5	交叉滚子导轨		约8kg	±10.5°	50um 以内		±3um 以内				

XXY200-95-5-M



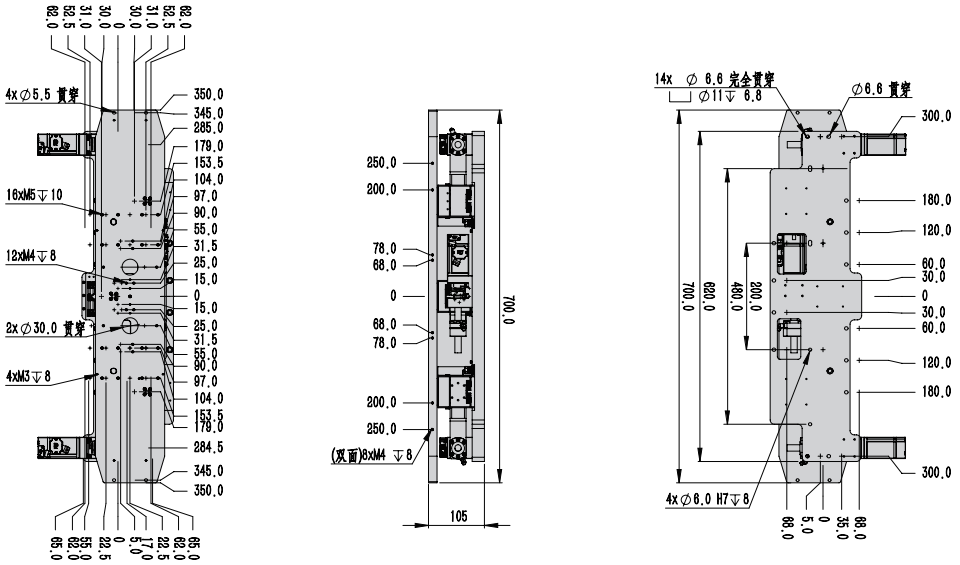
XXY420-95-5



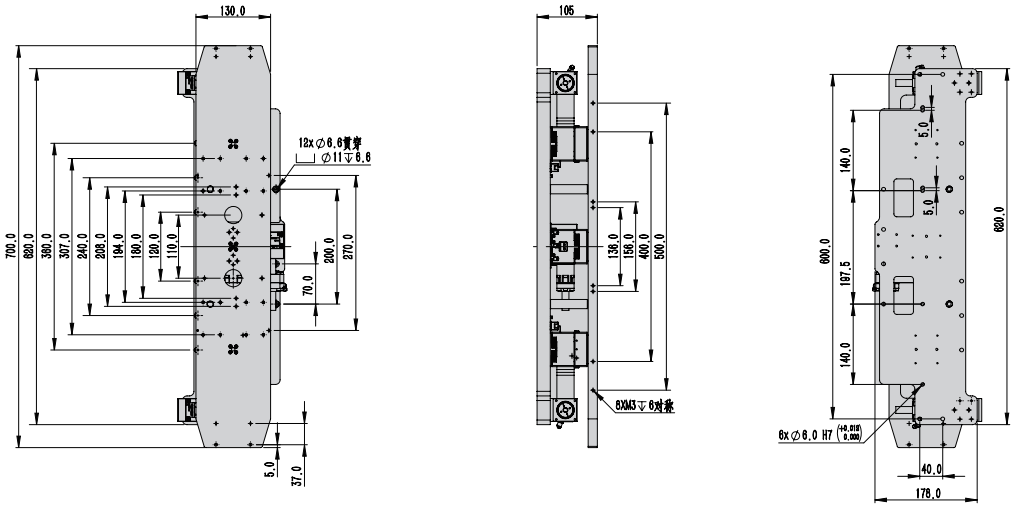
型号	移动量	滑台面尺寸	基座尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	角度	台面平面度	单向定位精度	重复定位精度	负载	平行度	限位传感器	原点传感器
XXY200-95-5-M	±15mm	200×200 mm	230×230 mm	Φ12 导程5	交叉滚子导轨	铝-阳极氧化	约8kg	±10.5°	50um	8um	±3um	30kg	±0.08 mm	有	有
XXY420-95-5	±15mm	90×366 mm	140×419 mm				约10kg	±4.5°	80um		±4um	40kg	±0.03 mm		

UVW对位平台

XXY700-105-05-SJ

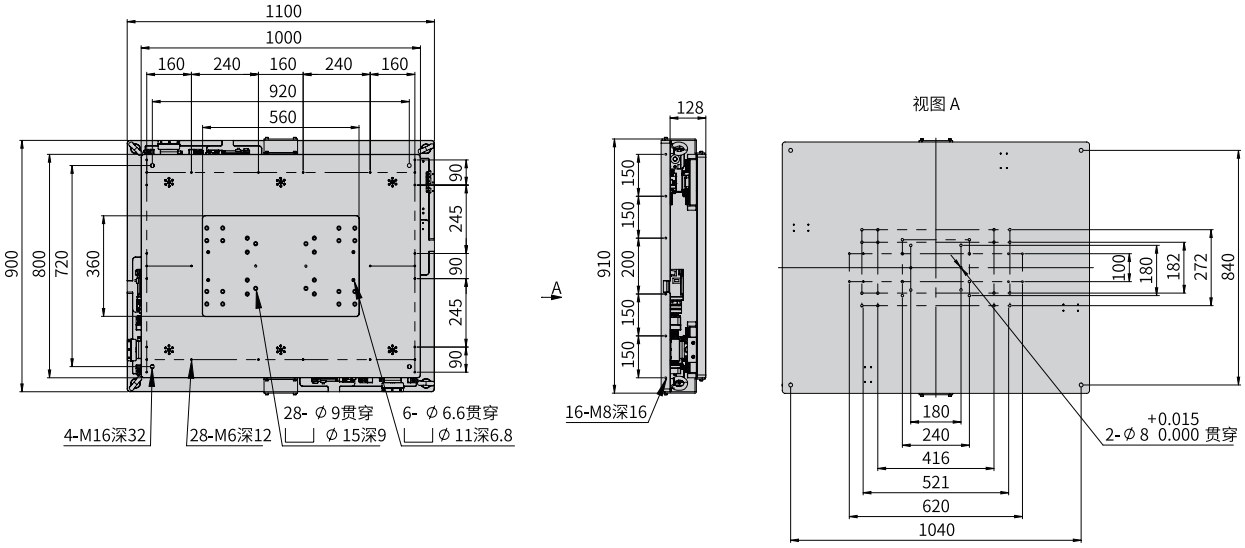


XXY700-105-05-YZ



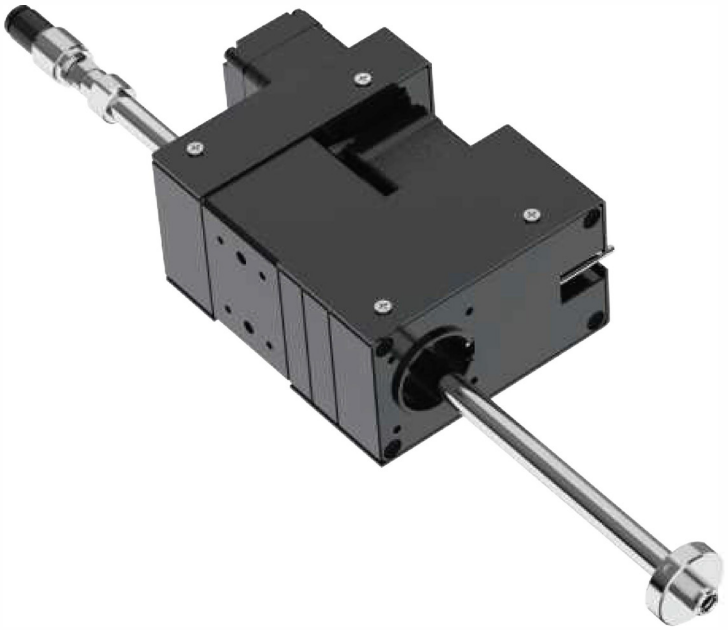
型号	XY轴移动量	台面尺寸	基座尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	角度	台面平面度	单向定位精度	重复定位精度	负载	平行度	限位传感器	原点传感器
XXY700-105-05-SJ	±23mm	700×130mm	620×170mm	Φ12导程5	交叉滚子导轨	铝-阳极氧化	约13kg	±7°	80um以内	8um以内	±2um以内	25kgf	100um以内	有	有
XXY700-105-05-YZ	±23mm	700×130mm	620×178mm												

XXY1000-128-5



型号	移动量	滑台面尺寸	基座尺寸	进给丝杆(滚珠丝杆)	导轨	主材质-表面处理	自重	角度	台面平面度	单向定位精度	重复定位精度	负载	平行度	限位传感器	原点传感器
XXY1000-128-5	±22mm	1000×1000mm	1100×1100mm	Φ20导程5	直线导轨	铝-阳极氧化	约200kg	±3°	100um以内	18um以内	10um以内	500kg	40um以内	有	有

混合驱动型



● 型号说明

HH-B2/28-06-G 10-050-N

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

①. 执行器种类
- HH：混合驱动型
- ZH：直接驱动型
- PD：皮带驱动型

②. 电机种类
- B2：2相开环步进电机
- B5：5相开环步进电机
- BE：闭环步进电机
- AC：伺服电机

③. 电机规格
- 28：□28
- 35：□35
- 42：□42
- 50w：50瓦伺服
- 100W：100瓦伺服

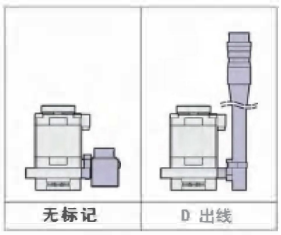
④. 驱动丝杆直径;06表示6mm

⑤. 驱动丝杆种类:
- G:研磨级丝杆

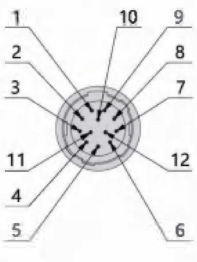
⑥. 丝杆导程：10表示导程10mm

⑦. 行程：050表示50mm

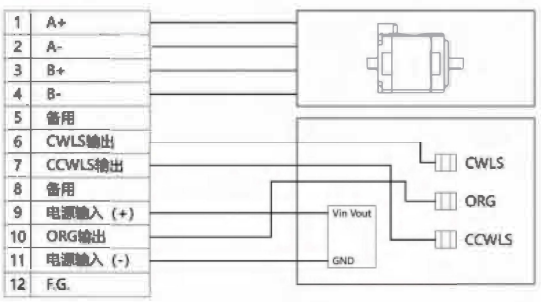
⑧. 连接器种类：
- N：散线
- D：带航空插的D出线



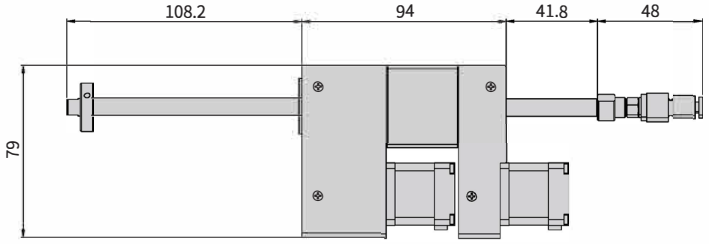
● 针脚排列图

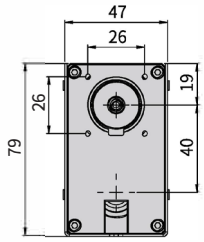


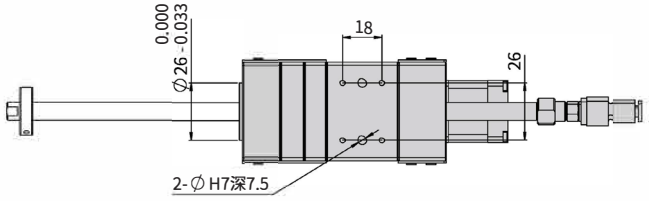
● 接线图



PD-B2/28-06-G 10-050-N

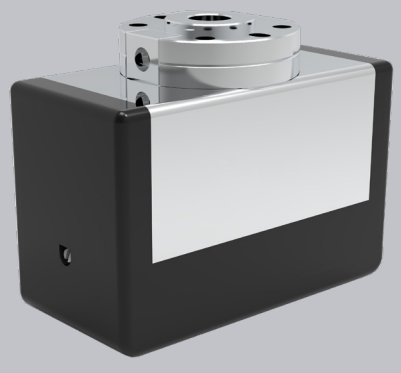


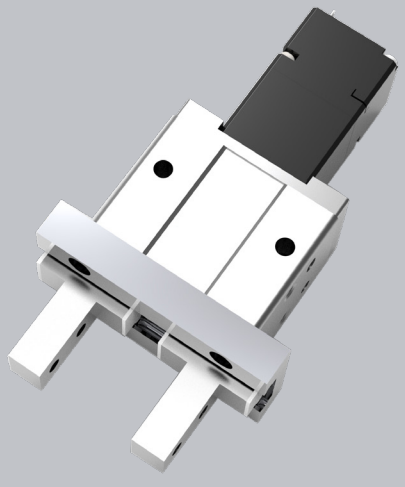




型号	进给丝杆（滚珠丝杆）	主材质 -表面处理	移动方向	行程	重复定位精度	最高速度	减速比	最大允许力矩	参考推力
PD-B2/28-06-G 10-050-N	Φ8导程10	铝-阳极氧化	Z轴	150mm	±0.02	200/sec	1/2	--	10N
			Θ轴	360°	±0.03°	1080°/sec	1/2	0.0N·m²	--

24 Electric gripper







New era of "electric ventilation", new transformation of "manufacturing"

Wiring is simpler

The sampling cylinder has the same wiring method, Directly replace to improve productivity

Selection is simpler

Highly integrated, no additional configuration required

Lower maintenance costs

Compact and simple structure, low difficulty in fault detection

Longer service life

Low energy consumption, minimal downtime, and higher equipment utilization

Teaching is simpler

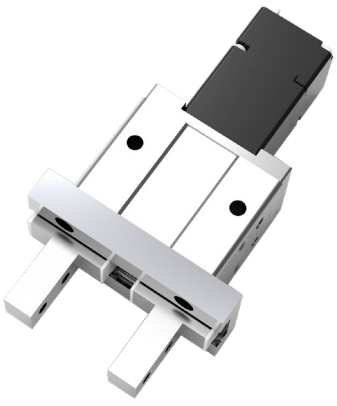
Can set any position point to achieve multi-point and uniform motion

Quiet and environmentally friendly usage environment

Servo/stepper motor drive, no gas noise

Superior performance

High control accuracy, stable operation, and reduced incidence of defective products







EHF&EHZ &EHR Electric gripper

No debugging required, plug and play

Can replace cylinder fingers

Internal integration system

Perfect replacement for air compressor+filter+solenoid valve+throttle valve+pneumatic finger



No need to worry about air leakage



No switch slot require



No need to replace the fixture



No magnetic switch re

EHF

EHF Electric gripper

Service environment	Transmission mode	Model	Shape	Opening and closing stroke/ both sides (mm)	Grab force (N)	Opening and closing speed (mm/ s)
General Environment	Sliding lead screw+timing belt	EHF	20	32(64)	11-28	5-100
General Environment	Sliding lead screw+timing belt	EHF	32	32(64)	48-120	5-100

※The highest speed here is the corresponding speed when the stepping motor speed is 600 rpm

Long stroke
Can accommodate multiple types of workpieces

quick response

Quick response: the electric clamping jaw has fast response speed and accurate control accuracy

Simple teaching demonstration

Set any position point to realize multi-point and uniform motion



Longer service life

Low energy consumption, less shutdown and higher equipment operation

Lower maintenance costs

Compact and simple structure, low fault detection difficulty



EHF

EHF	-	K2	-	64	-	485	5
Model		Two finger style		Stroke		Communication method	Cable length
20						PLS: Pulse	5:5m
32						485: I/O 485	No

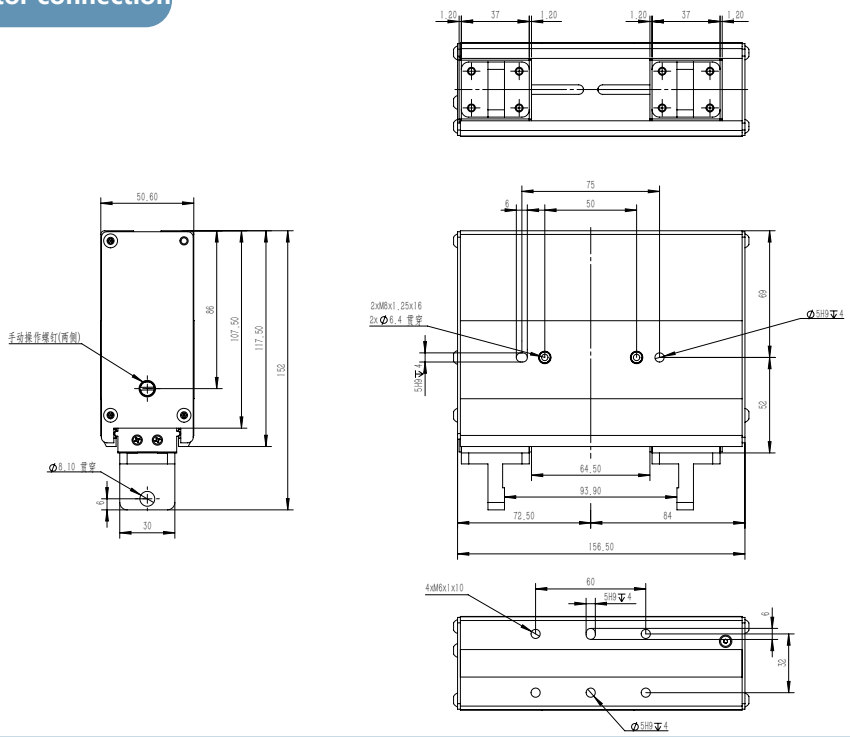
Parameter

	Specification	EHF20	EHF32
Specifications	Repetition accuracy mm ⑥	±0.05	±0.05
	Repeated positioning accuracy/single side[mm]	±0.1	±0.1
	Screw lead mm	4	4
	Maximum stroke mm	64	64
	Specifications of drive&control integrated motor	S42-485/S42-PLS	S42-485/S42-PLS
	Rated voltage V	DC24	DC24
	Motor torque N.m	0.3	0.3
	Mode of communication	PLS (Pulse) 458(I/O.485)	PLS (Pulse) 458(I/O.485)
Component	Clamping force N ①③	11~28	48~120
	Opening and closing speed/pushing speed[mm/s] ②③	5~100/5~30	5~100/5~30
	Finger Clearance/Unilateral mm ⑤	Below 0.5	Below0.5
	Maximum operating frequency [C.P.M]	60	60
	Service temperature range [℃]	5~40	5~40
	Applied humidity range	below 90 (No condensation)	below 90 (No condensation)
	Protection class	IP20	IP20
	Repeated length measurement accuracy ④	±0.05	±0.05

Note 1: The clamping force shall be used when it is 10-20 times more than the weight of the workpiece to be clamped. The factory default clamping force is low, please set the required clamping (pushing) moment via the Schaeffler configuration software.
Note 2: During clamping (pushing), the pushing speed shall be set within the range limit, so as to avoid excessive clamping, poor action and workpiece damage. The opening and closing speed and pushing speed shall be the speed of two fingers, and the speed of one finger shall be 1/2.
Note 3: speed and clamping force may vary according to cable length, load, installation conditions, etc. When the cable length exceeds 5m, the speed and clamping force shall be reduced by 10% at most every 5m. At 15m: max. 20% reduction).
Note 4: During clamping (pushing), clamping jaw and structural member are pressed tightly, which is not affected by clearance. When opening, set the stroke of the clearance amount higher (set stroke+clearance amount). Amount of finger gap
Note 5: Repeated length measurement accuracy refers to the deviation during repeated clamping of the same workpiece under the same action condition.
Note 6: Repetitive accuracy refers to the workpiece movement during repeated clamping of the same workpiece under the same action condition.

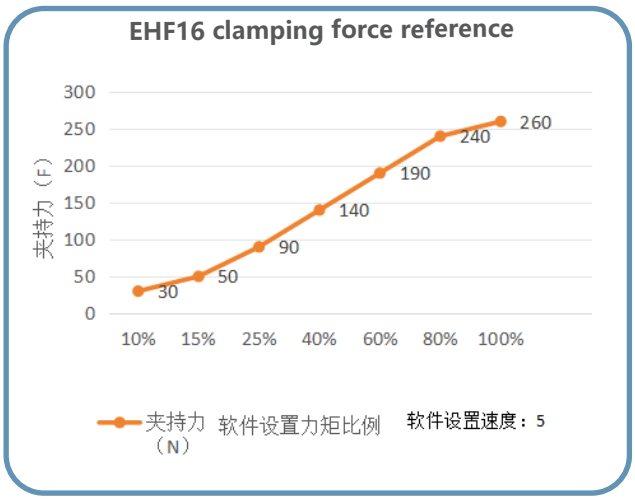
Direct motor connection

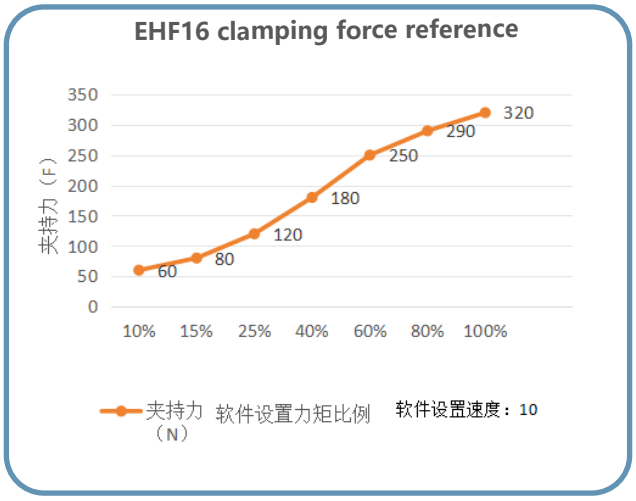
Unit：mm

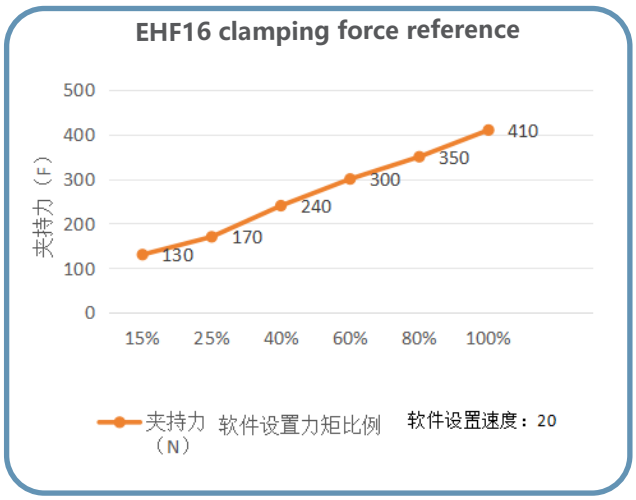


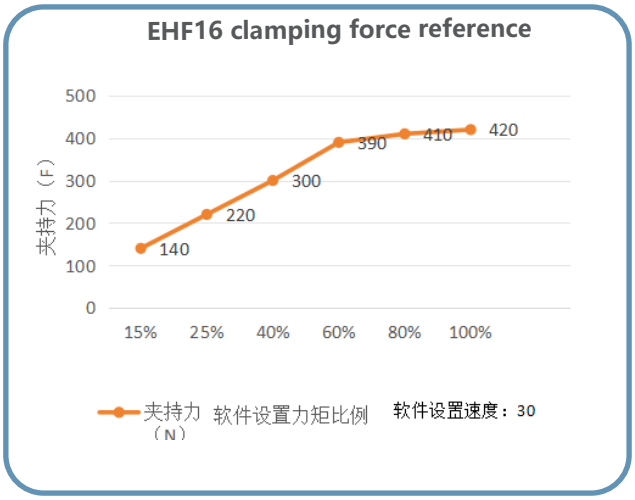
This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Clamping force curve









Note: 1. The clamping and loosening directions are related to the current motor direction. The torque shall be set according to the actual clamping direction
2. The best working torque is maintained between 20% - 80% of the clamping torque. Release 20% - 40% of the torque
3. The clamping force shall be applied when the workpiece weight is more than 10-20 times,the reference gripping force curve diagram is the sum of the forces provided by the jaws on both sides. The actual gripping force required for gripping,the object can be calculated by the following formula:

$$\frac{K\ (m \cdot g + m \cdot a)}{2\mu}$$

F clamp: clamping force required by clamping jaws on both sides (unit: N)
K: Safety factor (normally 5-10, higher for high risk scenarios)
m: mass of clamped object (unit: kg)
g: Gravitational acceleration (9.8 N/kg, 10 N/kg for rough calculation
a: Maximum acceleration during clamping movement (unit: m/s ², a=0 at rest)
μ: Friction coefficient of contact surface between workpiece and clamping jaw (to be measured or checked)
The friction coefficient μ value range is 0.2-0.8 (e.g. nylon - steel: 0.2-0.4 rubber - steel: 0.5-0.8)

Parameter and Wiring Definition of 42&57 Drive&Control Integrated Stepper Motor

TTL communication parameter setting

Baud rate: 115200 by default;

Data bit: 8 bits;

Stop bit: 1 bit;

Check bit: none.

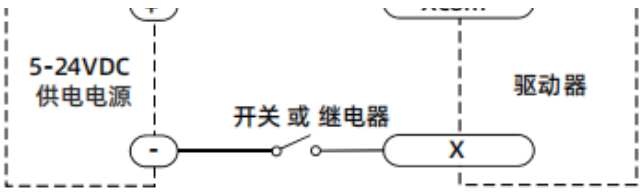
一、485 I/O

1.1 Input

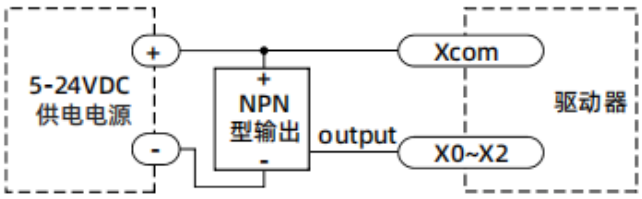
The IP42ET series driver contains 3 digital isolation inputs. The function of each input signal can be configured by software or command, and the input signal and function are corresponding as follows:

Signal	Interface	Function
X0	X0,Xcom	• Universal input (default) • Pulse/limit/origin/emergency stop/speed switch/ location interruption/forward rotation
X1	X1,Xcom	• Universal input (default) Pulse/direction/limit origin/emergency stop/speed switch/location interruption/reversal
X2	X2,Xcom	• Universal input (default) Limit/origin/emergency stop/speed switch/interrupted positioning

Since the input circuit is an optocoupler isolation circuit, a 5-24V power supply is required. For example, when connected to PLC, PLC power supply can be used; When using relays or mechanical switches, a power supply is required.
XCom is the common positive terminal of single-end input signal. XCom needs to be connected to the positive electrode of the power supply, and the X point only supports the connection of leakage type (NPN) signal. The following diagram lists several common wiring modes of X0~X3 input ports:



将输入连接至开关或继电器



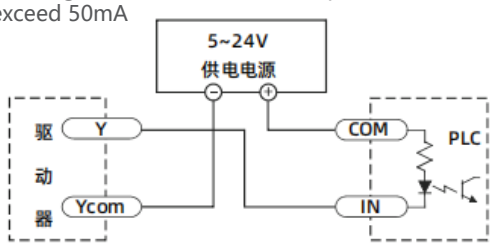
将输入连接至NPN型输出

1.2 Output

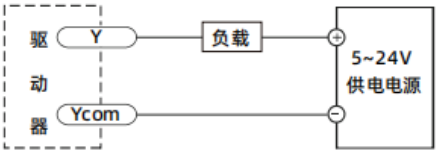
IP28ET series driver 3-channel digital isolated output. The function of each output signal can be configured by software or command, and the output signal and function are corresponding as follows:

Signal	Interface	Function
Y0	Y0,Ycom	• Alarm output (default) Alarm/in place/operating status
Y1	Y1,Ycom	• Position output (closed loop default) Operating state output port (default for open loop) Alarm/in place/operating status
Y2	Y2,Ycom	• Universal output (default) Alarm/in place/operating status

The following figure lists the common wiring modes of Y0~Y2 outputs:
Warning: Do not connect the output terminal to the DC voltage above 30V, and the current flowing into the output terminal shall not exceed 50mA



将Y接成sinking型输出，与PLC的输入相连



将输出Y接成sinking型输出

Connector pin definition

Number	Colour	Name	Function
1	red	V+	Supply voltage (9-48vdc)
2	black	V-	Power supply ground (GND)
3	green	Xcom	Input common positive terminal, compatible with 5-24v
4	yellow	X0	Channel programmable input port, connected to low-level signal Users can configure corresponding port functions through commands or upper computer When it is set as pulse mode, X0 is pulse port and X1 is directional port
5	purple	X1	
6	orange	X2	
7	white	Y2	Y0 Default alarm output, normally closed; Y1 Default in-place output, normally closed: Y2 undefined. Users can configure or redefine corresponding port functions through commands or upper computer. Y2 can be changed to input X3 before leaving the factory, and the default is output port.
8	blue	Y1	
9	brown	Y0	
10	gray	Ycom	Output common ground
11	pink	485A	The communication port can control the slave station driver through the master station MODBUS command. Note that the master station baud rate must be consistent with the slave station. The factory default baud rate is 115200. See the communication description for details.
12	light blue	485B	

Note: The power line is red and black high flexible wire, corresponding to No. 1 and No. 2, wire No. AWG20 #, and the factory default length is 1000mm,

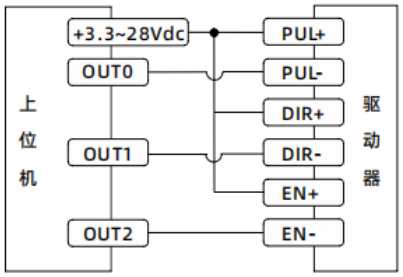
The signal wire is a 10-core twisted high-flexible shielded wire, corresponding to No. 3~12 and AWG28 #, with a factory default length of 1000mm.

二、 Pulse

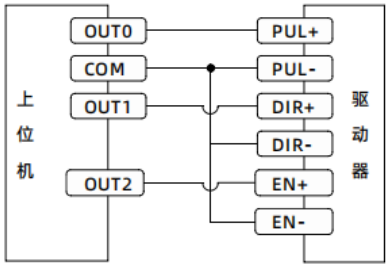
2.1 Inputs and Outputs

IP42 integrated stepper motor has 3 channels of high-speed input signals, and high level can directly receive 3.3-24V DC level. The following are the input and output signalsDetailed function description of:
PUL default is pulse input port, photoelectric isolation, differential, filtering frequency 400KHZ
DIR default direction input port, photoelectric isolation, differential, filtering frequency 400KHZ, pulse input port in case of dual pulse EN default is enabling input port, optoelectronic isolation, differential, filtering frequency 10KHZ

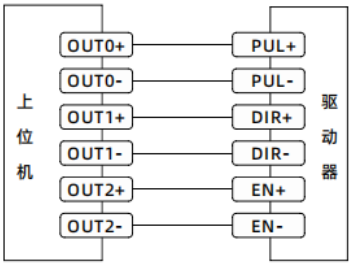
The following diagram lists several common wiring modes of the input port



Irrigation current output connection mode of upper computer (common anode)



Source current output connection mode of upper computer (common cathode)

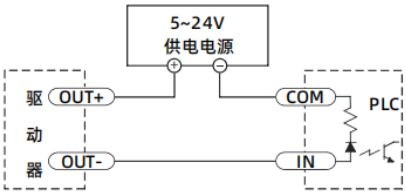


Differential signal output connection mode of upper computer

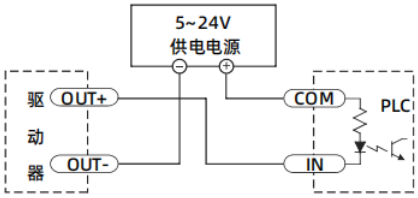
Wiring instructions

In monopulse mode, OUT0 is pulse signal and OUT1 is direction signal. When OUT0 is connected, the motor rotates clockwise. OUT0 and OUT1 are connected at the same time
The through motor rotates counterclockwise.
When in dual pulse mode, OUT0 is pulse signal and OUT1 is pulse signal. The motor rotates clockwise when OUT0 is connected and the motor rotates clockwise when OUT1 is connected
Rotate counterclockwise. OUT0 and OUT1 cannot be connected at the same time.
EN input enables or turns off the power part of the driver. The signal input is optoelectronic isolation, and 3.3-28VDC single-ended or differential signal can be accepted. EN signal
In case of suspension or low electric level (the optocoupler is not conductive), the driver is enabled and the motor operates normally; The EN signal is high level (optocoupler on), and the driver works
The motor is de-energized and the motor is de-energized. The EN input can be used to restart the drive when the motor is in an error condition. Firstly, eliminate the existence from the application system
And then input a falling edge signal to the EN terminal, the driver can restart the power part and the motor operates under excitation.
IP42 has two sets of output signals, maximum withstand voltage of 30V and maximum input or output current of 50mA
·ALM default alarm output, normally closed. The output optocoupler is connected in normal condition and disconnected in alarm.
·EX default position output, normally closed, output optocoupler connected when in position, disconnected when operating or reaching the position.

The following figure lists the common wiring modes of output:
Warning: Do not connect the output terminal to the DC voltage above 30V, and the current flowing into the output terminal shall not exceed 50mA



Y0 is connected to the sourcing output and connected to the input of PLC



Y0 is connected into sinking output and connected with PLC input



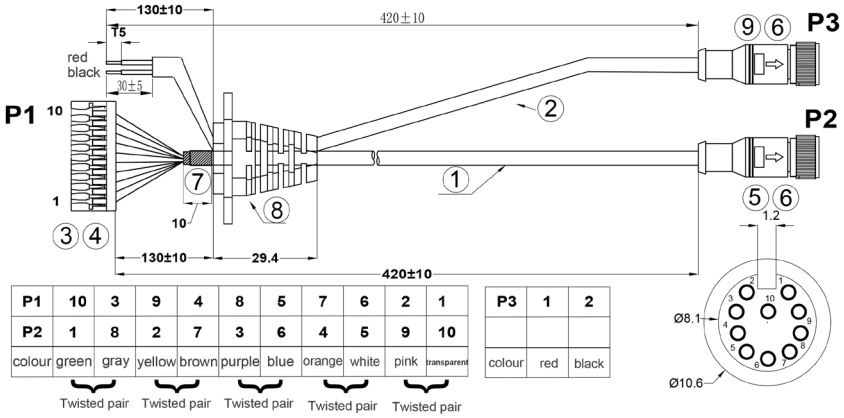
Connect output Y0 to sinking-type output

2.2 Lead definition

Number	colour	Name	Function
1	red	V+	Supply voltage (9~48vdc)
2	black	V-	Supply voltage (GND)
3	green	PUL+	Photoelectric isolation, differential, high level can directly receive 3.3-24VDC, default pulse frequency is 400KHz, pulse width is 2.5us, higher filter frequency can be set through upper computer, maximum 1M; default pulse input port can be set as other functions through upper computer.
4	yellow	PUL-	
5	purple	DIR+	Photoelectric isolation, differential, high level can directly receive 3.3-24VDC, default pulse frequency is 400KHz, pulse width is 2.5us, higher filter frequency can be set through upper computer, maximum 1M; default is direction signal input port, which can be set as other functions through upper computer.
6	orange	DIR-	
7	white	EN+	Photoelectric isolation, differential, high level can directly receive 3.3-24VDC, minimum pulse width 100us, maximum pulse frequency 10KHz， The default is enabling input port, which can be set as other functions through upper computer.
8	blue	EN-	
9	brown	ALM+	Alarm status output port can detect the alarm status of the motor. It is normally closed by default and the output optocoupler is closed under normal conditions. It can be inverted by software or set to other functions.
10	gray	ALM-	
11	pink	EX+	The in-place signal output port can detect the in-place and operation status of the motor. It is normally closed by default. When the motor is in place, the output optocoupler is closed. It can be inverted by software or set to other functions.
12	light blue	EX-	

Note: The power line is red and black high flexible wire, corresponding to No. 1 and No. 2, wire No. AWG20 #, and the factory default length is 1000mm
The signal wire is a 10-core twisted high-flexible shielded wire, corresponding to No. 3~12 and AWG28 #, with a factory default length of 1000mm

2.3 Extension line configuration - 5m extension line<standard configuration>



P1	10	3	9	4	8	5	7	6	2	1
P2	1	8	2	7	3	6	4	5	9	10
colour	green	gray	yellow	brown	purple	blue	orange	white	pink	transparent
	Twisted pair		Twisted pair		Twisted pair		Twisted pair		Twisted pair	

P3	1	2
colour	red	black



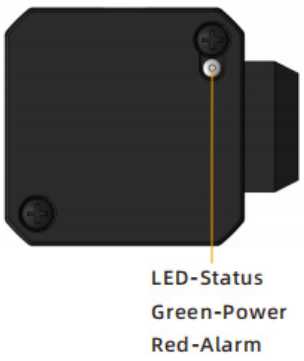
Physical image of cable

Drive cable O.D. 8 Power cord O.D. 6mm Aviation plug M8 Max. O.D. 15mm
P2: communication line (connected with 5m extension line) P3: power line (connected with 5m extension line)

3、 Error code

LED status indicator

IP42 uses a two-color patch LED (red/green) to indicate the normal status, the green LED flashes, and if the red LED flashes, an alarm or an error occurs. The error code can be represented by the flashing combination of red light and green light, as shown in the following figure:



LED codes		ERROR
	Green light on	Motor in operation
	Green light flashing	Motor stop
	One red and one green	Drive overcurrent
	Two red and one green	Motor winding open circuit
	Three red and one green	Drive input overvoltage
	Four red and one green	Undervoltage of driver input
	Five red and one green	Position out of tolerance
	Six red and one green	Detection encoder error

EHZ

EHZ Electric gripper

Environment	Transmission	Name	Size	Opening and closing stroke/both sides (mm)	Grab force (N)	Opening and closing speed (mm/s)
General Environment	Sliding lead screw	EHZ	16	6	6-14	5-80
			20	10	16-40	5-100
			25	14	16-40	5-100

The highest speed here is the corresponding speed when the stepping motor speed is 600rpm

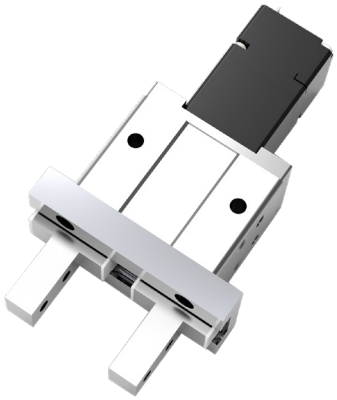
Compact, lightweight and versatile grip

Easier wiring

The sampling cylinder is wired in the same way,direct replacement for increased productivity.

Easier selection

Highly integrated without additional configuration.



Use environment is quiet and environmental-friendly

Servo/stepper motor drive, no gas noise.

Better performance

High control accuracy, stable operation and reduced occurrence rate of defective products.

Product advantages

Comparison category	Electrical/ Gas Cabling	Mounting Dimension	Grab capacity	Gripping speed	Precise force control	Grab Feedback Work piece detection	Intelligent grabbing	Multi-machine linkage	Safety self-locking	product positioning	Operating noise
Pneumatic clamping jaw	Too many pipelines Four lines	Standard	Standard	Standard	Large impact force No force control	No	No	Influenced by air pressure Large error	No self-locking	Medium/ low end	High
Electric air claw	1-2Pieces cable	Same as air claw / Slightly longer tail end	Close / identical	identical / Or faster	Flexible impact / Precise force control	Grab Feedback / Dimension measurement	Intelligent grabbing / real-time control	Reliable electronic control / High execution accuracy	With self-locking function	high-end	Low

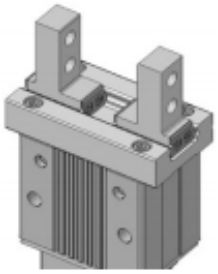
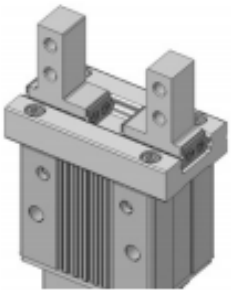
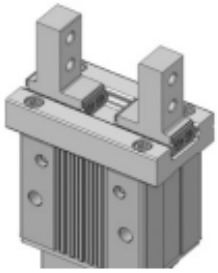
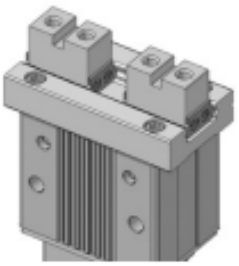
Functional advantages

	I/O RS485	PLS pulse
Automatic stop when the set clamping force is reached	Yes	Yes
Automatic stop when reaching the set position	Yes	Yes
Current check when grabbing workpiece	Yes	Yes
Constant clamping force retention	Yes	Yes
Installation form of driver	built-in	built-in

Communication cable

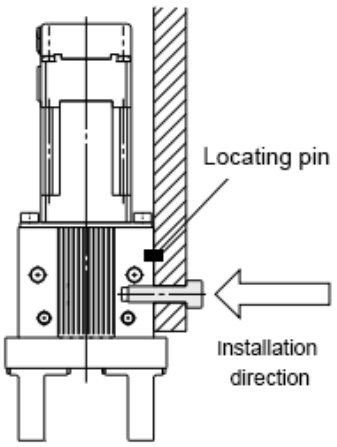
Standard cable length: 150mm cable (optional extension cable at later stage)

Finger Options

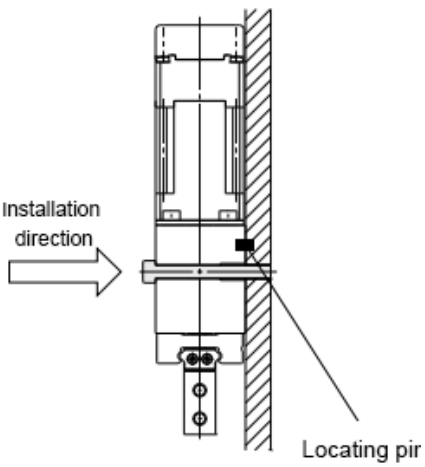
No mark: basic type (screw hole type in opening and closing direction)	A: Side screw hole installation method
	
B: Opening and closing direction through hole mode	**C: Flat finger pattern**
	

Installation mode

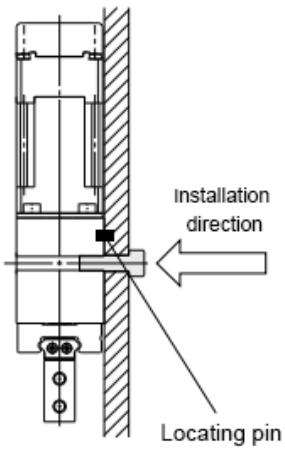
a)Where screw holes on the side of the main body are used

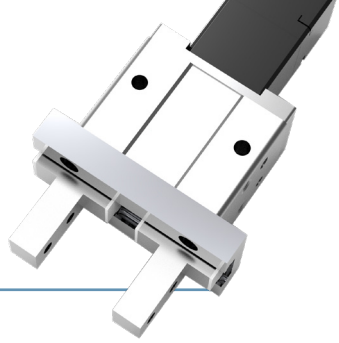


b) Where mounting plate screw holes are used



c)Where screw holes on the back of the main body are used





EHZ16

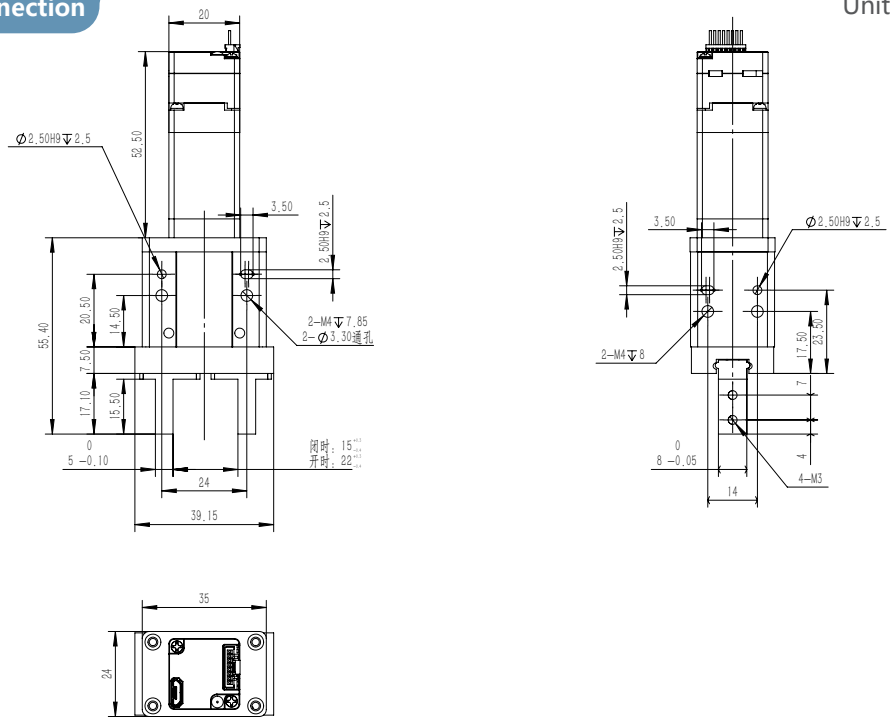
Name	-	Size	-	Stroke	-	Communication mode	-	Finger type
EHZ		16		6		I/O RS485		A
						PLS pulse		B
						EtherCAT		C

Specification of actuator	Model	EHZ16
	Opening and closing stroke/both sides [mm]	6
	Lead [mm]	249/77(3.234)
	Clamping force ① ③ [N]	6-14
	Opening/closing speed/pushing Speed ②③ [mm/s]	5-80/5-50
	Drive mode	Sliding screw+sliding cam
	Finger guide way	Linear guide rail (without circulation)
	Repeated length measurement accuracy ⑤ [mm]	±0.05
	Finger clearance/one side ④ [mm]	Below 0.25
	Repetition accuracy ⑥ [mm]	±0.02
	Repeated positioning accuracy/single side ⑥ [mm]	±0.05
	Idle travel/one side[mm]	Below 0.25
	Impact/vibration resistance[m/s2]	150/30
	Service temperature range[℃]	5-40
	Applied humidity range[%RH]	Below 90 (without condensation)
	Protection class	IP20
	Body quality[g]	200
Electrical specifications	Motor Size	□ 20
	Type of motor	Stepping motor (with encoder DC24V)
	Encoder	Relative increment A/B phase (800 pulse/revolution)
	Rated voltage[V]	DC24V±10%

Note 1: The clamping force shall be used when it is 10-20 times more than the weight of the workpiece to be clamped. The factory default clamping force is low, please set the required clamping (pushing) moment via the Schaeffler configuration software.
Note 2: During clamping (pushing), the pushing speed shall be set within the range limit, so as to avoid excessive clamping, poor action and workpiece damage. The opening and closing speed and pushing speed shall be the speed of two fingers, and the speed of one finger shall be 1/2.
Note 3: speed and clamping force may vary according to cable length, load, installation conditions, etc. When the cable length exceeds 5m, the speed and clamping force shall be reduced by 10% at most every 5m. At 15m: max. 20% reduction).
Note 4: During clamping (pushing), clamping jaw and structural member are pressed tightly, which is not affected by clearance. When opening, set the stroke of the clearance amount higher (set stroke+clearance amount). Amount of finger gap.
Note 5: Repeated length measurement accuracy refers to the deviation during repeated clamping of the same workpiece under the same action condition.
Note 6: Repetitive accuracy refers to the workpiece movement during repeated clamping of the same workpiece under the same action condition.

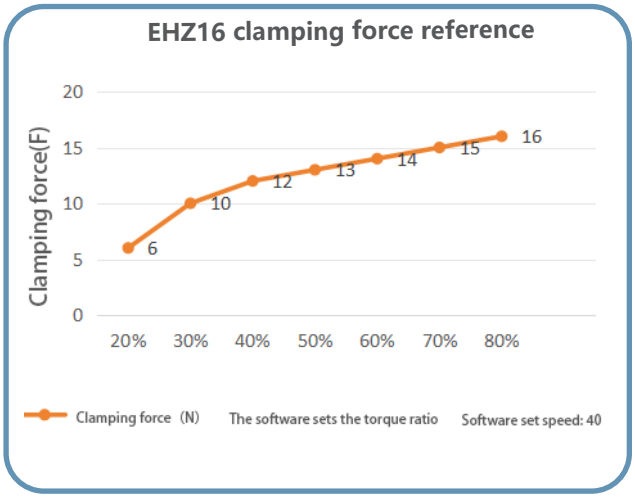
Direct motor connection

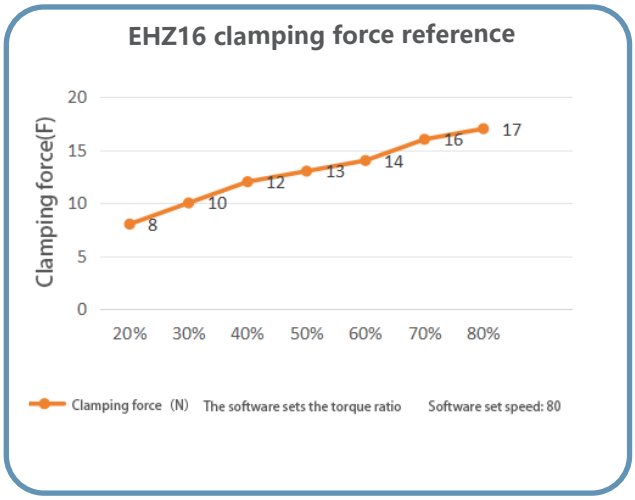
Unit: mm



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Clamping force curve



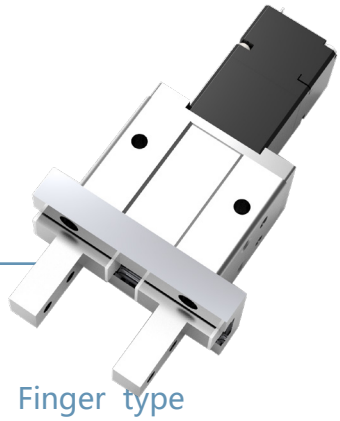


Note: 1. The clamping and loosening directions are related to the current motor direction. The torque shall be set according to the actual clamping direction
2. The best working torque is maintained between 20% - 80% of the clamping torque. Release 20% - 40% of the torque
3. The clamping force shall be applied when the workpiece weight is more than 10-20 times,the reference gripping force curve diagram is the sum of the forces provided by the jaws on both sides. The actual gripping force required for gripping,the object can be calculated by the following formula:

$$\frac{K\ (m \cdot g + m \cdot a)}{2\mu}$$

F clamp: clamping force required by clamping jaws on both sides (unit: N)
K: Safety factor (normally 5-10, higher for high risk scenarios)
m: mass of clamped object (unit: kg)
g: Gravitational acceleration (9.8 N/kg, 10 N/kg for rough calculation
a: Maximum acceleration during clamping movement (unit: m/s ², a=0 at rest)
μ: Friction coefficient of contact surface between workpiece and clamping jaw (to be measured or checked)
The friction coefficient μ value range is 0.2-0.8 (e.g. nylon - steel: 0.2-0.4 rubber - steel: 0.5-0.8)

EHZ20



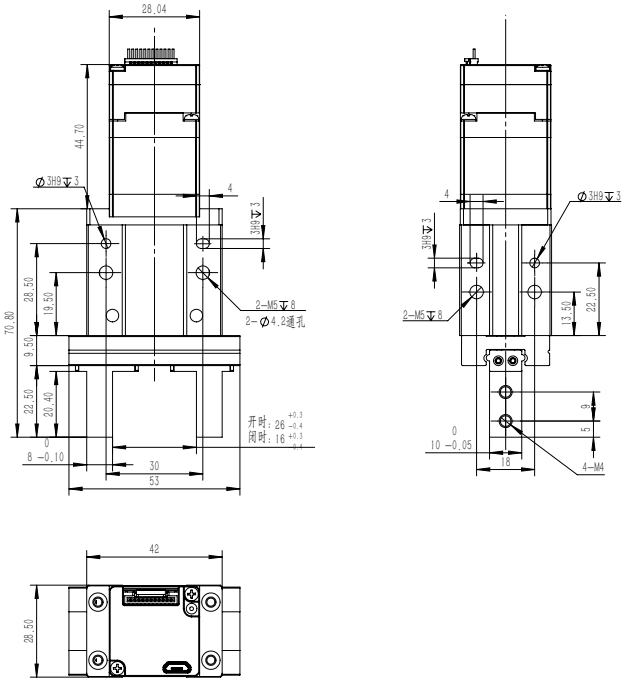
Name	-	Size	-	Stroke	-	Communication mode	-	Finger type
EHZ		20		10		I/O RS485		A
						PLS pulse		B
						EtherCAT		C

Specification of actuator	Model	EHZ20
	Opening and closing stroke/both sides [mm]	10
	Lead [mm]	246/53(4.642)
	Clamping force ① ③ [N]	16 ~ 40
	Opening/closing speed/pushing Speed ②③ [mm/s]	5 ~ 100 / 5 ~ 50
	Drive mode	Sliding lead screw+sliding cam
	Finger guide way	Linear guide rail (without circulation)
	Repeated length measurement accuracy ⑤ [mm]	±0.05
	Finger clearance/one side ④ [mm]	Below 0.25
	Repetition accuracy ⑥ [mm]	±0.02
	Repeated positioning accuracy/ single side ⑥ [mm]	±0.05
	Idle travel/one side[mm]	Below 0.25
	Impact/vibration resistance[m/s2]	150 / 30
	Service temperature range[℃]	5 ~ 40
	Applied humidity range[%RH]	Below 90 (without condensation)
	Protection class	IP20
	Body quality[g]	430
Electrical specifications	Motor Size	□ 28
	Type of motor	Stepping motor (with encoder DC24V)
	Encoder	Relative increment A/B phase (800 pulse/revolution)
	Rated voltage[V]	DC24±10%

Note 1: The clamping force shall be used when it is 10-20 times more than the weight of the workpiece to be clamped. The factory default clamping force is low, please set the required clamping (pushing) moment via the Schaeffler configuration software.
Note 2: During clamping (pushing), the pushing speed shall be set within the range limit, so as to avoid excessive clamping, poor action and workpiece damage. The opening and closing speed and pushing speed shall be the speed of two fingers, and the speed of one finger shall be 1/2.
Note 3: speed and clamping force may vary according to cable length, load, installation conditions, etc. When the cable length exceeds 5m, the speed and clamping force shall be reduced by 10% at most every 5m. At 15m: max. 20% reduction).
Note 4: During clamping (pushing), clamping jaw and structural member are pressed tightly, which is not affected by clearance. When opening, set the stroke of the clearance amount higher (set stroke+clearance amount). Amount of finger gap
Note 5: Repeated length measurement accuracy refers to the deviation during repeated clamping of the same workpiece under the same action condition.
Note 6: Repetitive accuracy refers to the workpiece movement during repeated clamping of the same workpiece under the same action condition.

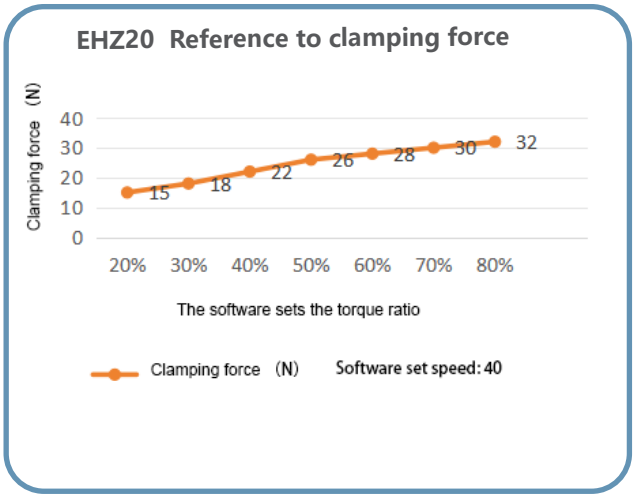
Direct motor connection

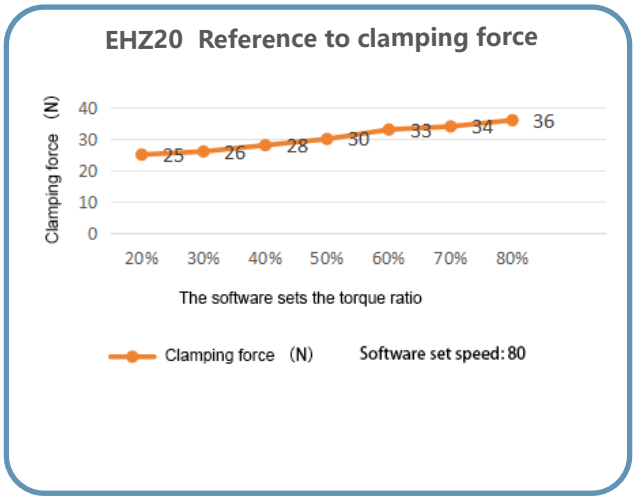
Unit: mm



This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Clamping force curve



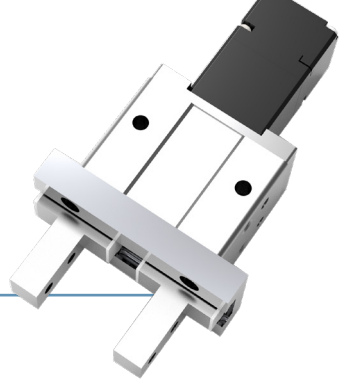


Note: 1. The clamping and loosening directions are related to the current motor direction. The torque shall be set according to the actual clamping direction
2. The best working torque is maintained between 20% - 80% of the clamping torque. Release 20% - 40% of the torque
3. The clamping force shall be applied when the workpiece weight is more than 10-20 times,the reference gripping force curve diagram is the sum of the forces provided by the jaws on both sides. The actual gripping force required for gripping,the object can be calculated by the following formula:

$$\frac{K\ (m \cdot g + m \cdot a)}{2\mu}$$

F clamp: clamping force required by clamping jaws on both sides (unit: N)
K: Safety factor (normally 5-10, higher for high risk scenarios)
m: mass of clamped object (unit: kg)
g: Gravitational acceleration (9.8 N/kg, 10 N/kg for rough calculation
a: Maximum acceleration during clamping movement (unit: m/s ², a=0 at rest)
μ: Friction coefficient of contact surface between workpiece and clamping jaw (to be measured or checked)
The friction coefficient μ value range is 0.2-0.8 (e.g. nylon - steel: 0.2-0.4 rubber - steel: 0.5-0.8)

EHZ25

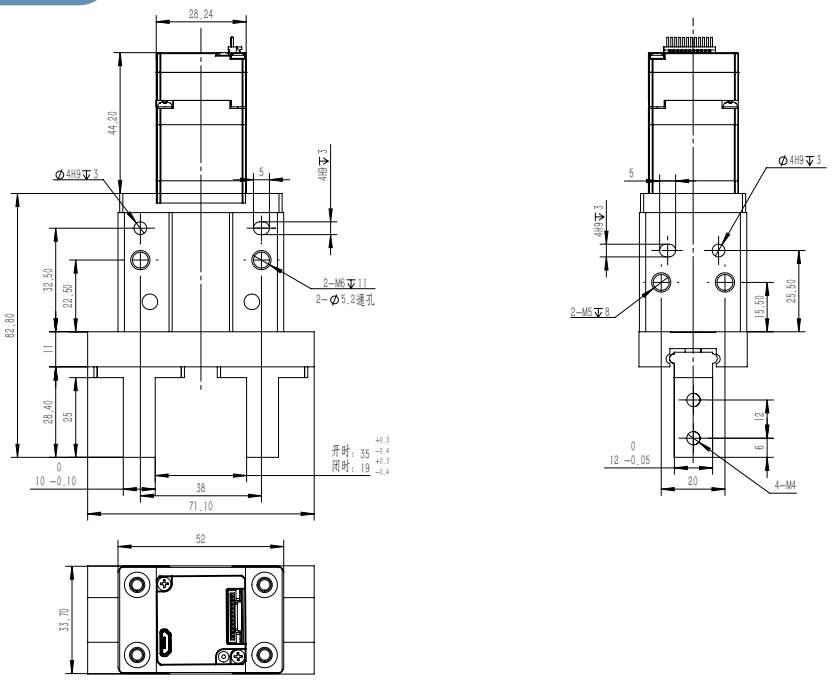


Name	-	Size	-	Stroke	-	Communication mode	-	Finger type
EHZ		25		14		I/O RS485		A
						PLS pulse		B
						EtherCAT		C

Specification of actuator	Model	EHZ25
	Opening and closing stroke/both sides [mm]	14
	Lead [mm]	243/48(5.063)
	Clamping force ① ③ [N]	16-40
	Opening/closing speed/pushing Speed ②③ [mm/s]	5-100/5-50
	Drive mode	Sliding screw+sliding cam
	Finger guide way	Linear guide rail (without circulation)
	Repeated length measurement accuracy ⑤ [mm]	±0.05
	Finger clearance/one side ④ [mm]	Below 0.25
	Repetition accuracy ⑥ [mm]	±0.02
	Repeated positioning accuracy/ single side ⑥ [mm]	±0.05
	Idle travel/one side[mm]	Below 0.25
	Impact/vibration resistance[m/s2]	150/30
	Service temperature range[℃]	5-40
	Applied humidity range[%RH]	Below 90 (without condensation)
	Protection class	IP20
	Body quality[g]	510
Electrical specifications	Motor Size	□ 28
	Type of motor	Stepping motor (with encoder DC24V)
	Encoder	Relative increment A/B phase (800 pulse/revolution)
	Rated voltage[V]	DC24V±10%

Note 1: The clamping force shall be used when it is 10-20 times more than the weight of the workpiece to be clamped. The factory default clamping force is low, please set the required clamping (pushing) moment via the Schaeffler configuration software.
Note 2: During clamping (pushing), the pushing speed shall be set within the range limit, so as to avoid excessive clamping, poor action and workpiece damage. The opening and closing speed and pushing speed shall be the speed of two fingers, and the speed of one finger shall be 1/2.
Note 3: speed and clamping force may vary according to cable length, load, installation conditions, etc. When the cable length exceeds 5m, the speed and clamping force shall be reduced by 10% at most every 5m. At 15m: max. 20% reduction).
Note 4: During clamping (pushing), clamping jaw and structural member are pressed tightly, which is not affected by clearance. When opening, set the stroke of the clearance amount higher (set stroke+clearance amount). Amount of finger gap
Note 5: Repeated length measurement accuracy refers to the deviation during repeated clamping of the same workpiece under the same action condition.
Note 6: Repetitive accuracy refers to the workpiece movement during repeated clamping of the same workpiece under the same action condition.

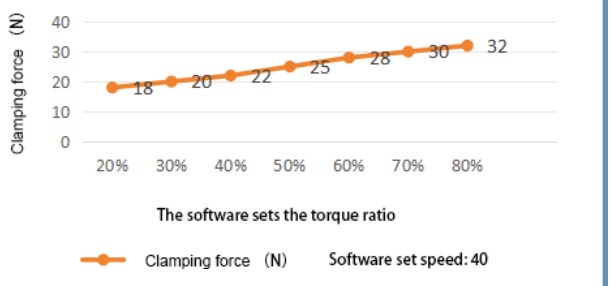
Direct motor connection

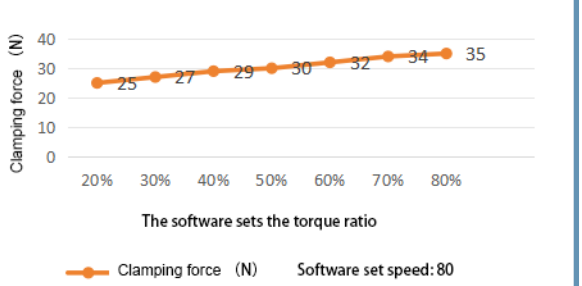


Unit: mm

This drawing is for reference only, the actual dimension is subject to the actual 2D/3D drawings provided

Clamping force curve





Note: 1. The clamping and loosening directions are related to the current motor direction. The torque shall be set according to the actual clamping direction
2. The best working torque is maintained between 20% - 80% of the clamping torque. Release 20% - 40% of the torque
3. The clamping force shall be applied when the workpiece weight is more than 10-20 times,the reference gripping force curve diagram is the sum of the forces provided by the jaws on both sides. The actual gripping force required for gripping,the object can be calculated by the following formula:

$$\frac{K\ (m \cdot g + m \cdot a)}{2\mu}$$

F clamp: clamping force required by clamping jaws on both sides (unit: N)
K: Safety factor (normally 5-10, higher for high risk scenarios)
m: mass of clamped object (unit: kg)
g: Gravitational acceleration (9.8 N/kg, 10 N/kg for rough calculation
a: Maximum acceleration during clamping movement (unit: m/s ², a=0 at rest)
μ: Friction coefficient of contact surface between workpiece and clamping jaw (to be measured or checked)
The friction coefficient μ value range is 0.2-0.8 (e.g. nylon - steel: 0.2-0.4 rubber - steel: 0.5-0.8)

Index

Spec Index

EHR

EHR Electric gripper

Environment	Transmission mode	Series	Specification	Opening and closing stroke/ both sides (mm)	Clamping force (N)	Clamping speed
General Environment	Sliding screw rod+timing belt	EHR	32	50	60~140	5~30

*Hold speed is the speed of two fingers; The speed of a single finger is 1/2 of its speed

Easy tool change, plug and play

Simple installation

Only 2 bolts need to be tightened to complete tool replacement; Only one electrical wiring is required for action

Wider usage scenarios

This product is only 63mm thick and can be used in narrow places



Environmental protection and energy conservation

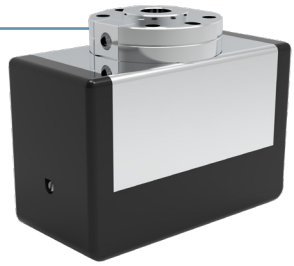
Significant reduction in energy consumption through optimized motor control technology

Lightweight design

Body weight only 1kg

EHR32

Model -	Two finger type -	Opening and closing stroke	Longitudinal type
EHR32	K2	50	B



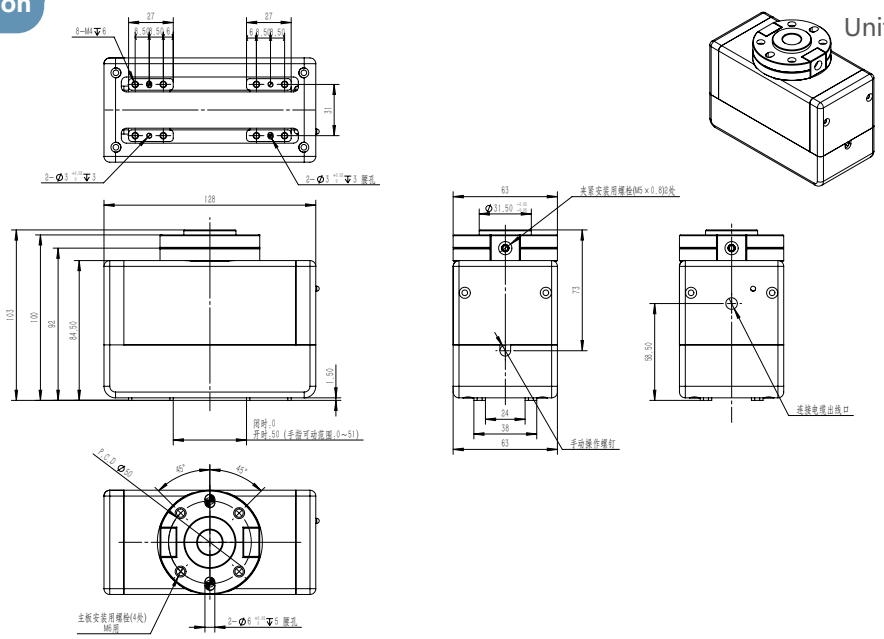
Parameter

Specification of actuator	Model	EHR32
	Opening and closing stroke/ both sides [mm]	50
	Clamping force ①③ [N]	60~140
	Clamping speed ②③ (mm/s)	5~30
	Amount of finger gap(mm)	below 0.5
	Repeated positioning accuracy ④ (mm)	±0.1
	Service temperature range (℃)	5~40
	Protection class	IP20
Electrical specifications	Weight of main body (KG)	1
	Mode of communication	PLS(Pulse) 485(I/O 485)
	Supply voltage (V)	24

Note 1: The clamping force shall be used when it is 10-20 times more than the weight of the workpiece to be clamped. The factory default clamping force is low, please set the required clamping (pushing) moment via the Schaeffler configuration software.
Note 2: During clamping (pushing), the pushing speed shall be set within the range limit, so as to avoid excessive clamping, poor action and workpiece damage. The opening and closing speed and pushing speed shall be the speed of two fingers, and the speed of one finger shall be 1/2.
Note 3: speed and clamping force may vary according to cable length, load, installation conditions, etc. When the cable length exceeds 5m, the speed and clamping force shall be reduced by 10% at most every 5m. At 15m: max. 20% reduction).
Note 4: Repetitive accuracy refers to the workpiece movement during repeated clamping of the same workpiece under the same action condition.

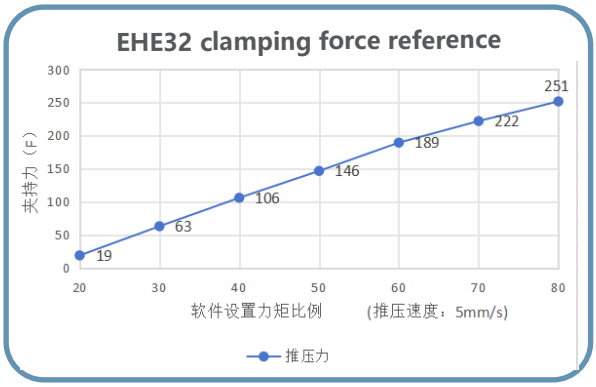
Direct motor connection

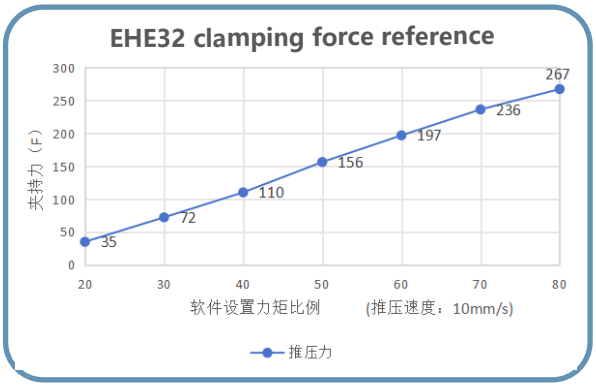
Unit: mm

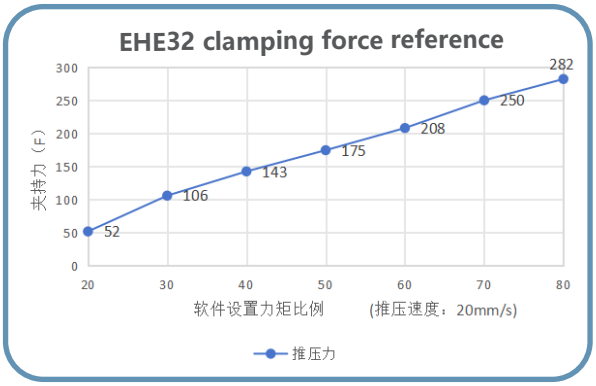


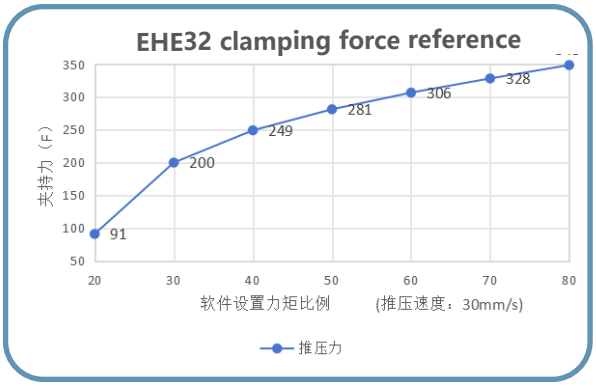
This drawing is only for reference. The actual dimensions are subject to the 2D/3D drawings provided. The product style, appearance and specifications are subject to change without notice.

Clamping force curve









Note: 1. The clamping and loosening directions are related to the current motor direction. The torque shall be set according to the actual clamping direction
2. The best working torque is maintained between 20% - 80% of the clamping torque. Release 20% - 40% of the torque
3. The clamping force shall be used when the workpiece weight is more than 10-20 times. The reference clamping force curve diagram is the sum of the forces provided by the jaws on both sides. The clamping force required for actually clamping the object can be calculated by the following formula:

$$F \geq \frac{K\ (m \cdot g + m \cdot a)}{2\mu}$$

F clamp: clamping force required by clamping jaws on both sides (unit: N)
K: Safety factor (normally 5-10, higher for high risk scenarios)
M: mass of clamped object (unit: kg)
G: Gravitational acceleration (9.8 N/kg, 10 N/kg for rough calculation
A: Maximum acceleration during clamping movement (unit: m/s ², a=0 at rest)
μ: Friction coefficient of contact surface between workpiece and clamping jaw (to be measured or checked)
The friction coefficient μ value range is 0.2-0.8 (e.g. nylon - steel: 0.2-0.4 rubber - steel: 0.5-0.8)

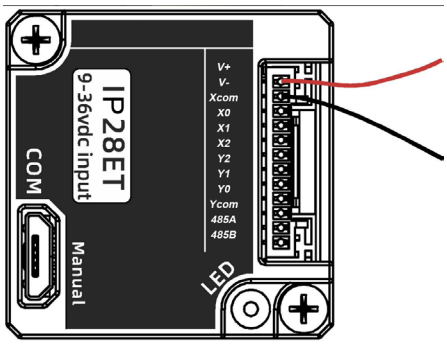
28&35 Stepper Motor Parameters and Wiring Definitions

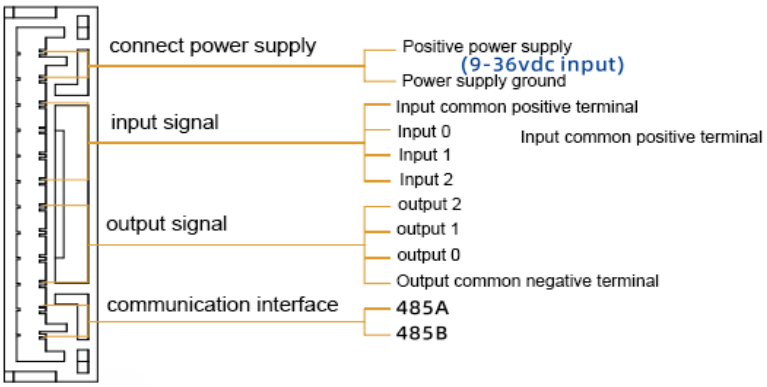
TTL communication parameter setting

Baud rate: 115200 by default;
Data bit: 8 bits;
Stop bit: 1 bit;
Check bit: none.

1、485 I/O

Wiring diagram and harness definition





Connector pin definition

Number	Colour	Name	Function
1	Red	V+	Supply voltage (9-36vdc)
2	Black	V-	Supply voltage (GND)
3	Green	Xcom	Input common positive terminal, compatible with 5~24v
4	Yellow	X0	Channel programmable input port, connected to low-level signal. Users can configure corresponding port functions through commands or upper computer. When it is set as pulse mode, X0 is pulse port and X1 is directional port.
5	Purple	X1	
6	Orange	X2	
7	White	Y2	Y0 Default alarm output, normally closed; Y1 Default in-place output, normally closed; Y2 not defined. Users can configure or redefine corresponding port functions through commands or upper computer Y2 can be changed to input X3 before leaving the factory, and the default is output port.
8	Blue	Y1	
9	Brown	Y0	
10	Gray	Ycom	Output common ground
11	Pink	485A	The communication port can control the slave station driver through the master station MODBUS command. Note that the master station baud rate must be consistent with the slave station. The factory default baud rate is 115200. See the communication description for details.
12	Transparent	485B	

1.1 Input

The IP28ET series driver contains 3 digital isolation inputs. The function of each input signal can be configured by software or command, and the input signal and function are corresponding as follows:

Signal	Interface	Function
X0	X0,Xcom	• Universal input (default) Pulse/Limit/Home/Emergency stop/Seed switching/ Location interruption/Forward rotation
X1	X1,Xcom	• Universal input (default) Pulse/Direction/Limit origin/Emergency stop/Speed switch/Location interruption/Reversal
X2	X2,Xcom	• Universal input (default) Limit/origin/Emergency stop/Speed switch/Interrupted positioning

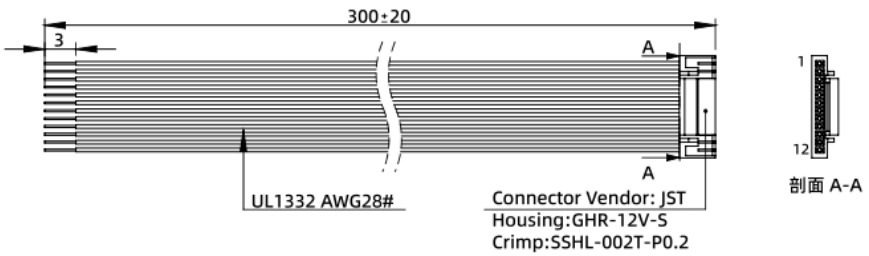
1.2 Output

IP28ET series driver 3-channel digital isolated output. The function of each output signal can be configured by software or command, and the output signal and function are corresponding as follows:

Signal	Interface	Function
Y0	Y0,Ycom	• Alarm output (default) Alarm/in place/operating status
Y1	Y1,Ycom	• Position output (closed loop default) Operating state output port (default for open loop) Alarm/in place/operating status
Y2	Y2,Ycom	• Universal output (default) Alarm/in place/operating status

Wire harness and accessories

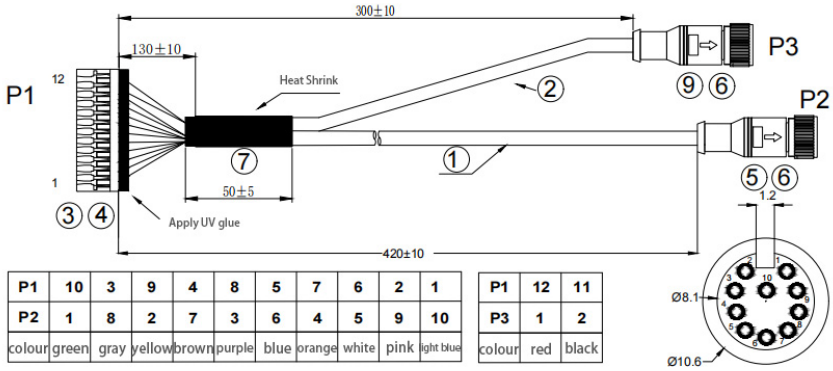
1.3 Standard wire harness<supplied with product>



Pin number	1	2	3	4	5	6	7	8	9	10	11	12
colour	red	black	green	yellow	purple	orange	white	blue	brown	gray	pink	transparent
definition	V+	GND	Xcom	X0	X1	X2	Y2	Y1	Y0	Ycom	485A	485B

This harness contains power supply, I/O and communication lines.

1.3 Configuration of extension line-5m extension line



P1	10	3	9	4	8	5	7	6	2	1
P2	1	8	2	7	3	6	4	5	9	10
colour	green	gray	yellow	brown	purple	blue	orange	white	pink	light blue

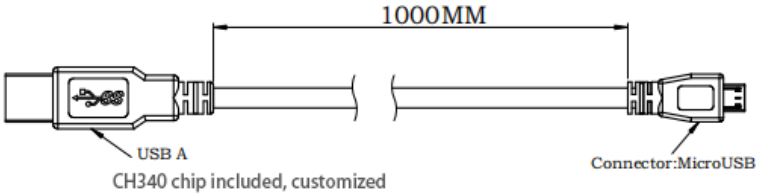
P1	12	11
P3	1	2
colour	red	black



Physical image of cable

- Drive cable O.D. 8 Power cord O.D. 6mm Aviation plug M8 Max. O.D. 15mm
  P2: communication line (connected with 5m extension line) P3: power line (connected with 5m extension line)

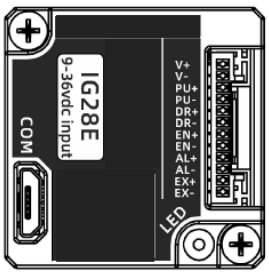
1.4 USB to TTL data cable<to be purchased separately>

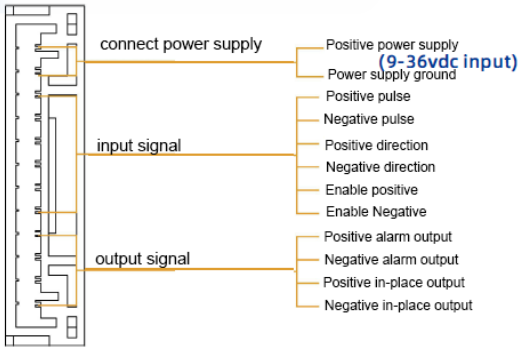


CH340 chip included, customized

2、Pulse

Wiring diagram and harness definition





2.1Input

The IG28E series driver contains 3 digital isolation inputs. The input signal corresponds to the function as follows:

Signal	Interface	Function
PUL	PUL+,PUL-	Default pulse input port, 10 mode control motor forward rotation
DIR	DIE+,DIR-	The default is the direction input port, and the pulse port in the dual pulse mode Mode control motor reversal
EN	EN+,EN-	Default to enable input

2.2 output

IG28E series driver 1-channel digital isolated output. The output signal corresponds to the function as follows:

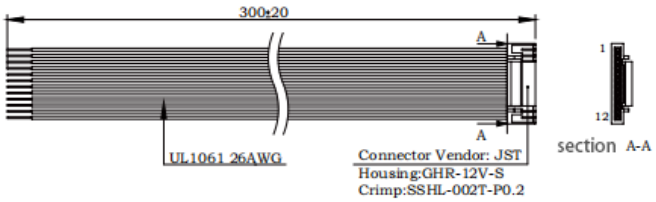
Signal	Interface	Function
ALM	AL+,AL-	Alarm output port (default), normally closed by default, output disconnected in case of alarm. Alarm/in place/operating status
EX	EX+,EX-	Output port in place (default), normally open by default, output closed when in place. Alarm/in place/operating status

Connector pin definition

Number	Colour	Name	Function
1	Red	V+	Supply voltage(9-36vdc)
2	Black	V-	Supply voltage (GND)
3	Green	PUL+	Photoelectric isolation, differential, high level can directly receive 3.3-24VDC, the minimum pulse width is 2.5us, the maximum pulse frequency is 400KHz, the default is pulse input port, which can be set as other functions through the upper computer.
4	Yellow	PUL-	
5	Purple	DIR+	Photoelectric isolation, differential, high level can directly receive 3.3-24VDC, minimum pulse width 2.5us, maximum pulse frequency 400KHz, the default is the direction signal input port, which can be set as other functions through the upper computer.
6	Orange	DIR-	
7	White	EN+	Photoelectric isolation, differential, high level can directly receive 3.3-24VDC, the minimum pulse width is 100us, the maximum pulse frequency is 10KHZ, the default is enabling input port, and it can be set as other functions through the upper computer.
8	Blue	EN-	
9	Brown	ALM+	Alarm status output port, which can detect the alarm status of the motor. It is normally closed by default and output normally. It can be inverted by software or set to other functions.
10	Gray	ALM-	
11	Pink	EX+	The in-place output port can detect the operating state of the motor. It is normally open by default and output when it is in place. It can be inverted by software or set to other functions.
12	Transparent	EX-	

Wire harness and accessories

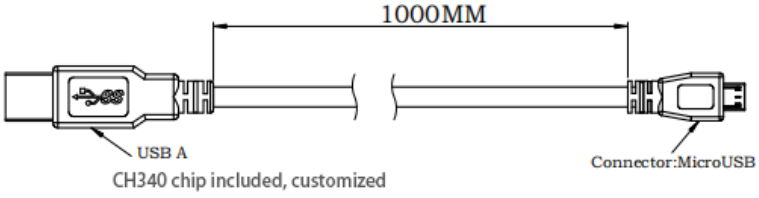
2.3 Standard wire harness<attached with product>



Pin number	1	2	3	4	5	6	7	8	9	10	11	12
colour	red	black	green	yellow	purple	orange	white	blue	brown	gray	pink	transparent
definition	V+	GND	PUL+	PUL-	DIR+	DIR-	EN+	EN-	ALM+	ALM-	EX+	EX-

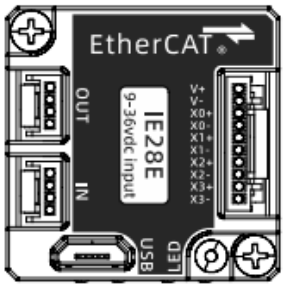
This harness contains power supply, I/O and communication lines. Wire harness model: LS-IC28-300mm
Plastic shell: GHR-12V-S<JST>
Terminal: SSHL-002T-P0.2<JST>

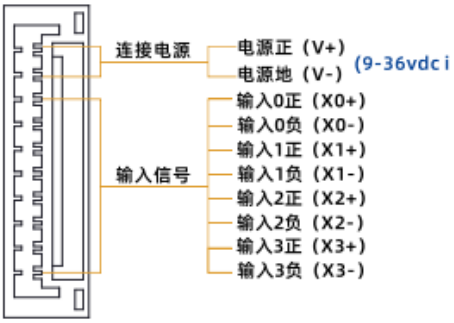
2.4 USB to TTL data cable<to be purchased separately>



3、EtherCat

Wiring diagram and harness definition



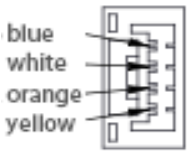


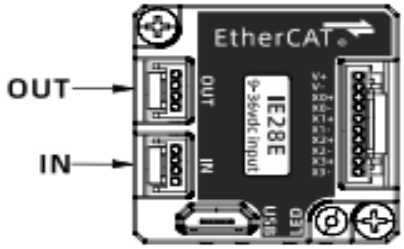
3.1Input

The IE28 series driver contains 4 digital isolation inputs. The function of each input signal can be configured by software or command, and the input signal and function are corresponding as follows:

Signal	Interface	Function
X0	X0+,X0-	Negative limit (default) Limit/Origin/Emergency stop/Probe
X1	X1+,X1-	Positive limit (default) Limit/Origin/Emergency stop/Probe
X2	X2+,X2-	Origin (default) Limit/Origin/Emergency stop/Probe
X3	X3+,X3-	Probe (default) Limit/Origin/Emergency stop/Probe

Connecting EtherCat



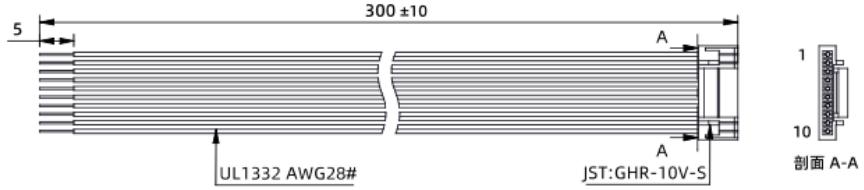


Two GH1.25 connectors are used for EtherCAT connection, which conform to 100BASE-TX (100Mbps) interface and can be connected with our customized connecting line. The standard of customized line is superior to CAT5. There are two customized lines: CAB-IE28-GH-GH line is used for interconnection of IE28, and CAB-IE28-RJ45-GH line is used for connection between IE28 and other master stations or slave stations with RJ45 interface; The Ethernet input IN is connected to the Ethernet output OUT of the previous drive on the controller or bus. The Ethernet output OUT is connected to the Ethernet input IN of the next driver on the bus. If the drive is the last node on the bus, connect only the Ethernet input IN.

Number	Colour	Definition	Note
1	Blue	TX+	Send data+
2	Orange	TX-	Send data-
3	White	RX+	Receive data +
6	Blue	RX-	Receive data -

Wire harness and accessories

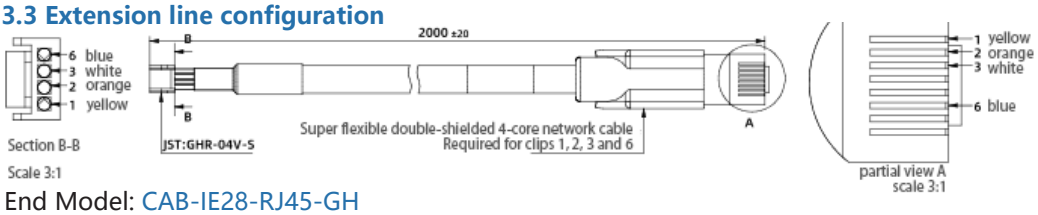
3.2 Standard wire harness<attached with product>



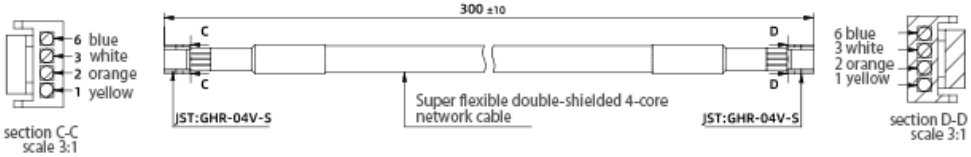
Pin number	1	2	3	4	5	6	7	8	9	10
colour	red	black	green	yellow	purple	orange	white	blue	brown	gray
definition	V+	GND	X0+	X0-	X1+	X1-	X2+	X2-	X3+	X3-

This harness includes power supply and I/O line. Ending model: CAB-IE28-300mm
Plastic shell: GHR-12V-S<JST>
Terminal: SSHL-00ST-P0.2<IST>

3.3 Extension line configuration

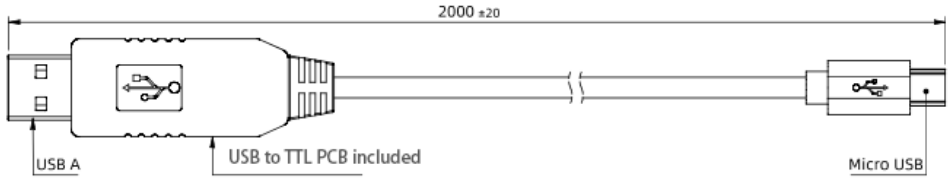


End Model: CAB-IE28-RJ45-GH
This harness is used to connect IE28 and master or slave station with RJ45 interface



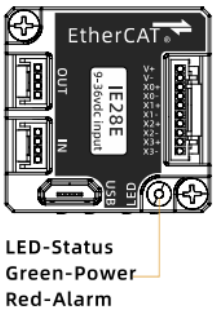
Wire harness model: CAB-IE28-GH-GH
This harness is used for series communication between IE28

3.4 USB to TTL data cable<to be purchased separately>



4、 Error code

LED status indicator
The motor uses a two-color patch LED (red/green) to display the status normally green LED flashing, if red LEDs are flashing, an alarm or an error has occurred. The error code can be represented by the flashing combination of red light and green light, as shown in the following figure:



LED codes		ERROR
	Green light on	Motor in operation
	Green light flashing	Motor stop
	One red and one green	Drive overcurrent
	Two red and one green	Motor winding open circuit
	Three red and one green	Drive input overvoltage
	Four red and one green	Undervoltage of driver input
	Five red and one green	Position out of tolerance
	Six red and one green	Detection encoder error

25

ERA linear rotary actuator

Product features



- **Ultra-thin dense configuration**

  Exquisite design, with a minimum body thickness of 16mm; highly integrated, supporting parallel installation of multiple actuators

- **Precise control of force**

  Direct drive motor+intelligent algorithm to achieve ± 5G dynamic force control, ensuring non-destructive handling of precision components

- **Micron level positioning**

  Linear 0.2 μ m grating+rotating 17 bit dual encoder configuration, achieving ± 2 μ m through precise positioning repeatability

- **Intelligent soft landing**

  Automatically switch to flexible mode upon contact, reducing the fragmentation rate during the transportation of precision or expensive components,
  Improve yield and production capacity

Naming rules

ERA	-	25	-	50	-		-	00	-	A	-	IP40
Product series		thickness		Stroke		Motor type		Resolution		Voltage		IP Grade

Motor type: None: Linear motor; M:Rod shaped motor

Resolution: 00: Straight line 0.2 μ m +Rotate 17 bit default

Voltage: A:24V

ERA-16-40-M-00-A-IP40

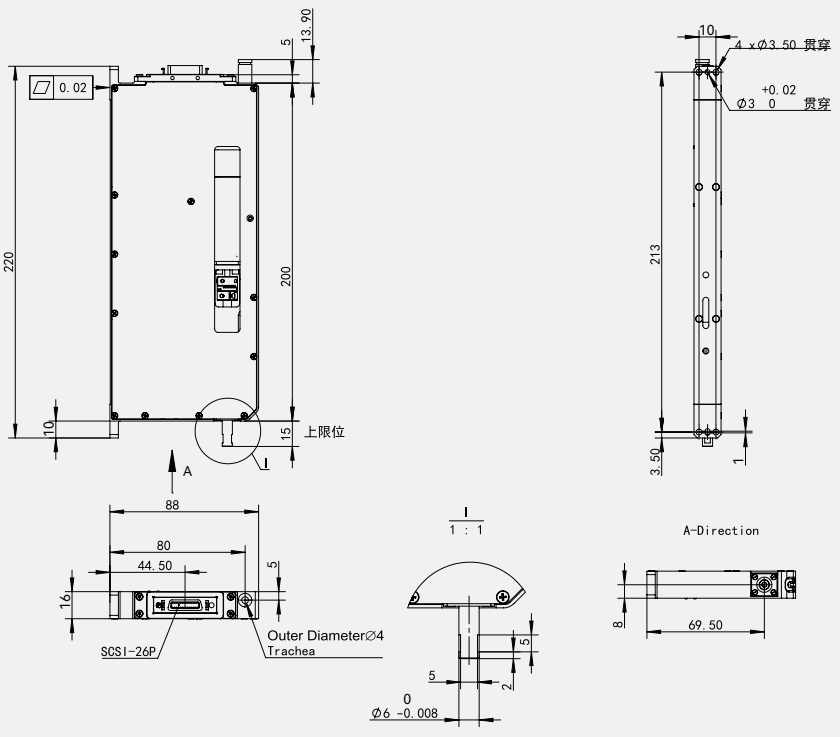
Product parameters

Z-axis	Adjustable stroke	40mm
	Continuous thrust	6N
	Peak thrust	17.8N
	Force constant	7.9 N/A
	Persistent current	0.76A
	Peak current	2.24A
	Linear encoder resolution	0.2 μm
Parameter	Position repeatability positioning accuracy	±2μm
	Thickness	16mm
	Voltage	DC24V±10%
	Usage environment	5-40 ℃ below 85% RH
	Body weight	0.78 Kg

R-axis	Rotation angle	±360°
	Resolution of rotary encoder	131072 line
	Rotation positioning accuracy	±0.01°
	Torque	0.01N •m
	Peak torque	0.036N •m
	Rated current	0.4A
	Peak current	1.2A
Repetitive accuracy of force control	Radial runout	±5μm(±1μmcustomizable)
	20~50g	±5g
	50g~300g	±10g
	complies with international standards	CE

Explanation: The repeatability accuracy of force control is a laboratory test result, which is related to factors such as matching drivers

ERA-16-40-M dimension



Note: The above is an example of naming conventions

ERA-25-50-00-A-IP40

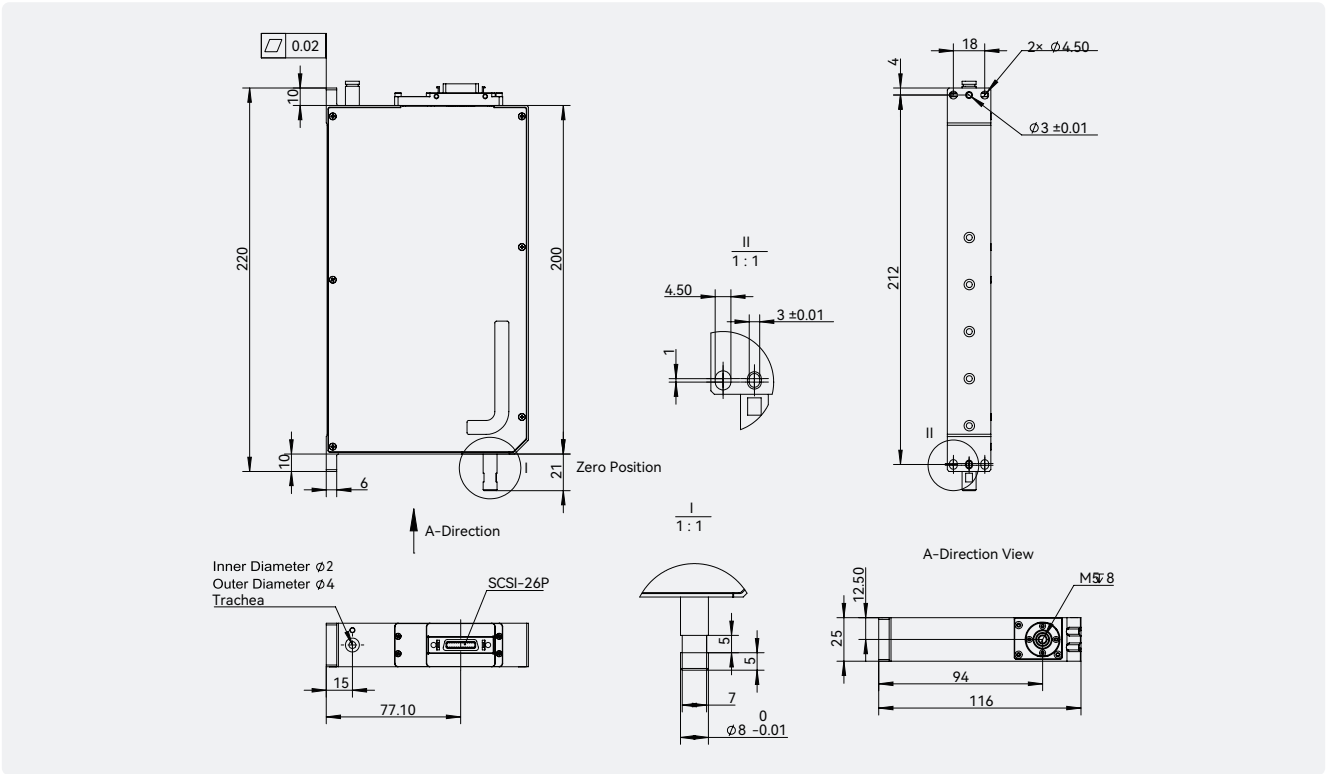
Product parameters

Z-axis	Adjustable stroke	50mm
	Continuous thrust	12N
	Peak thrust	39.6N
	Force constant	7.5 N/A
	Persistent current	1.6A
	Peak current	5.3A
	Linear encoder resolution	0.2 μm
Parameter	Position repeatability positioning accuracy	±2μm
	Thickness	25mm
	Voltage	DC24V±10%
	Usage environment	5-40℃ ,below 85%RH
	Body weight	1kg

R-axis	Rotation angle	±360°
	Resolution of rotary encoder	131072 line
	Rotation positioning accuracy	±0.01°
	Torque	0.02N •m
	Peak torque	0.187N •m
	Rated current	1.14A
	Peak current	10.7A
Repetitive accuracy of force control	Radial runout	±5μm(±1μmcustomizable)
	20~50g	±5g
	50g~300g	±10g
	complies with international standards	CE

Explanation: The repeatability accuracy of force control is a laboratory test result, which is related to factors such as matching drivers

ERA-25-50 dimension



Driver reference materials

ERA servo drive Product model: ERA

Naming rules

ERA -2A05-D60-BE-XXX

① ② ③ ④ ⑤ ⑥

	Project	Sign	Note
①	Driver series	ERA	ERA series servo drive
②	Rated current	2A05	Two axis product, with a rated output current of 5Arms for each axis
③	Voltage level	D60	Maximum allowable input voltage DC60V
④	Servo type	B	High performance type
		Z	High performance model with soft landing
⑤	Control instruction interface	E	EtherCAT
		U	Analog quantity/pulse sequence
		P	Profinet
⑥	Customized Number	C00	Standard model, can be omitted without writing
		C01-C09	Customized model

Specifications

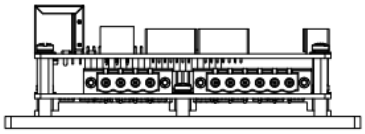
ERA General Specifications

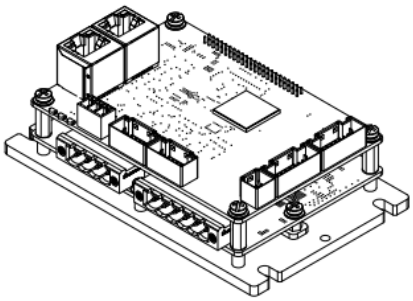
Project		Note
Encoder interface		Tamagawa、Biss-C、ABZ incremental encoder
EtherCAT	Minimum communication cycle	250us
	Application rules	IEC61800-7 Profile typel(CiA402),CoE(CANopen over EtherCAT)
	Communication object	PDO(Prooess Data Object),SDO(Service Data Objcct)
	MODE	Planned Position Mode (PP), Origin Reset Mode (HM), Periodic Synchronous Position Mode (CSP), Cycle Synchronous Speed Mode (CSV), Cycle Synchronous Torque Mode (CST)
Debug Interface	Communication interface	RS485 (Type B)/USB (Type Z)
	Debugging software	DriveMaster
I/O interface	DI	8 channels per axis (Type B)/7 channels per axis (Type Z)
	DO	4 channels per axis (Type B)/5 channels per axis (Type Z)
Installation method		Cold plate installation
Usage environment	Operating environment temperature and humidity	0 ℃ ~45 ℃ without derating, 45 ℃ ~55 ℃ derating: 10%~95% RH (no condensation)
	Storage environment temperature and humidity	40-65 ℃ : 10% -95% RH (non condensing)
	Altitude	Below 1000m altitude
	Protection grade	IP00

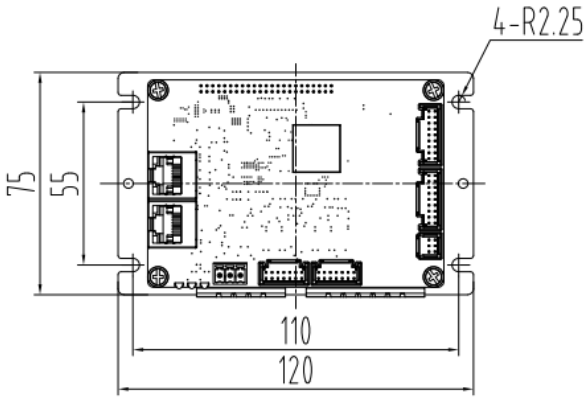
ERA Electrical Specifications

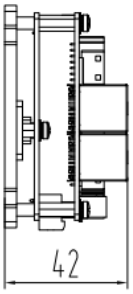
PRODUCT MODEL		ERA-2A05-D60-BE
Number of drive axes		2
Single axis output current	Continuous (Arms)	5
	Maximum (Arms)	15
DC IN	Voltage range (V)	15-55

External dimensions

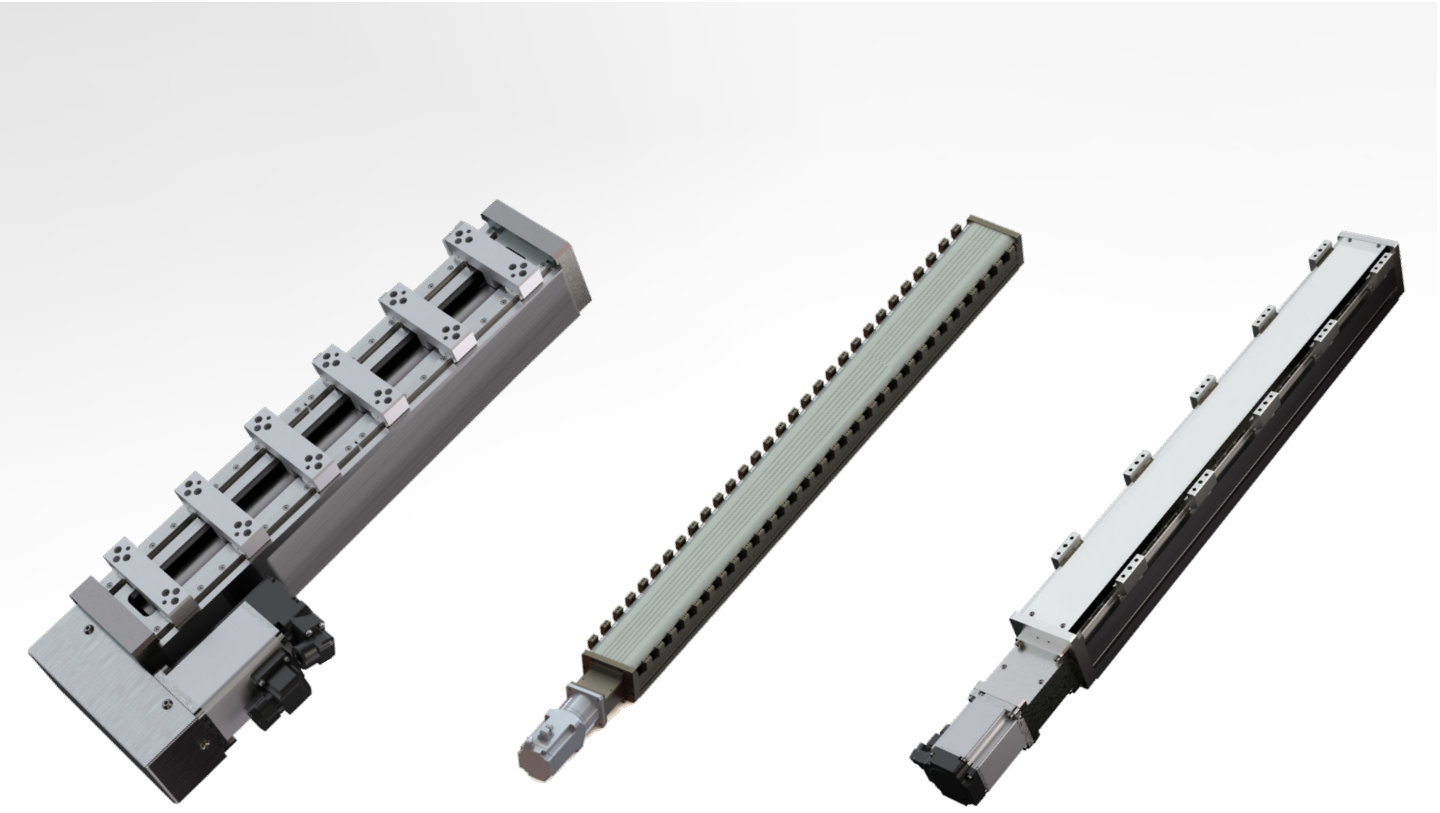








26 Variable distance module



ARIABLE CAMSHAFT MODULE

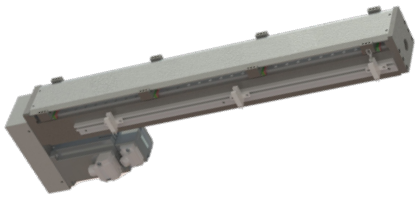
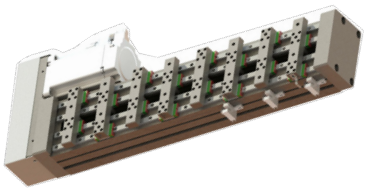
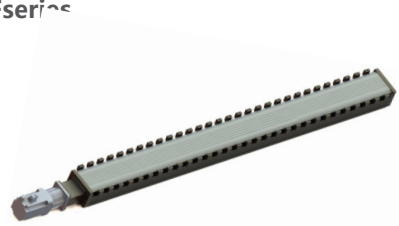
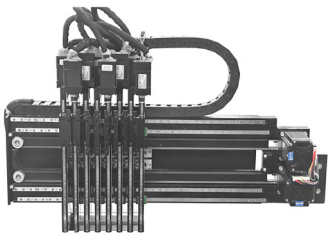
Automation standard Ariable Camshaft module

Camshaft type		Shaft diameter	Width mm	Adapt motor		Workstation	Minimum variation distance mm	Maximum variation distance mm	Maximum lead mm	Module Size		Single station load kg	Track size	Accuracy mm	
				Stepping motor	servo motor					width mm	height mm			Repeatability	Accuracy between workstations
60 Series	60	26	≤ 400	42	100W	2-17	9	350	300	60	55	1-3	5-7	0.025	0.05
	60S	33	≤ 450	42-60	100W -400W		7	380		65	65	1	5-7		
	60F	26	≤ 450	42	100W		12	380		72	59.5	1-2	3-5		
80 Series	80	33-39	≤ 1500	/	400W	2-30	12.6	1200	33-480	80	70	2-20	7-12	0.025	0.05
	80S						46		39-580	90	70				
	80F						22.6		39-580	98	80				
130F Series		49	≤ 2500	/	750W	6-40	23	1700	740	150	95	10-30	9-15	0.025	0.05

Instructions for using the variable range module environment

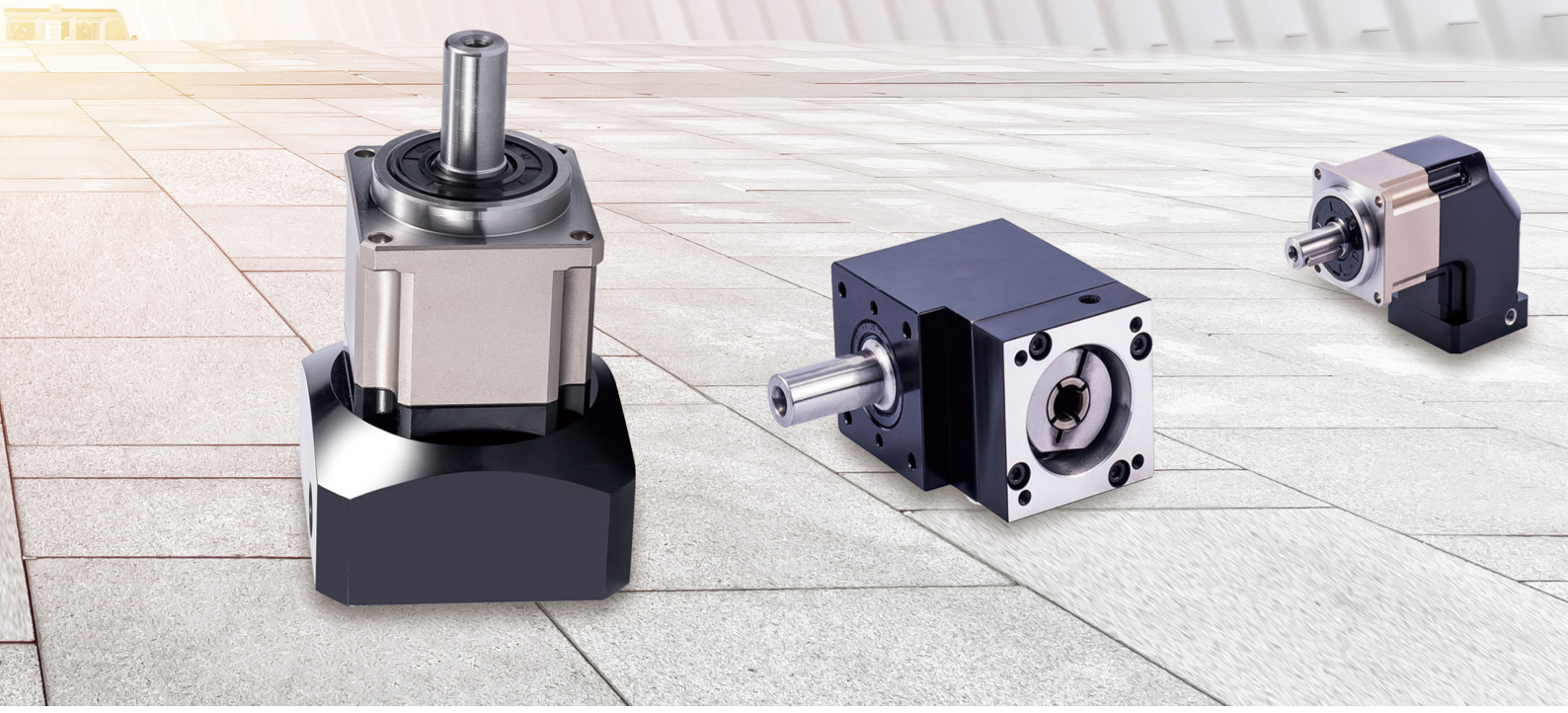
It is recommended to use in general environments without oil stains or dust. If the environment is harsh, customization can be notified in advance.

ARIABLE CAMSHAFT MODULE

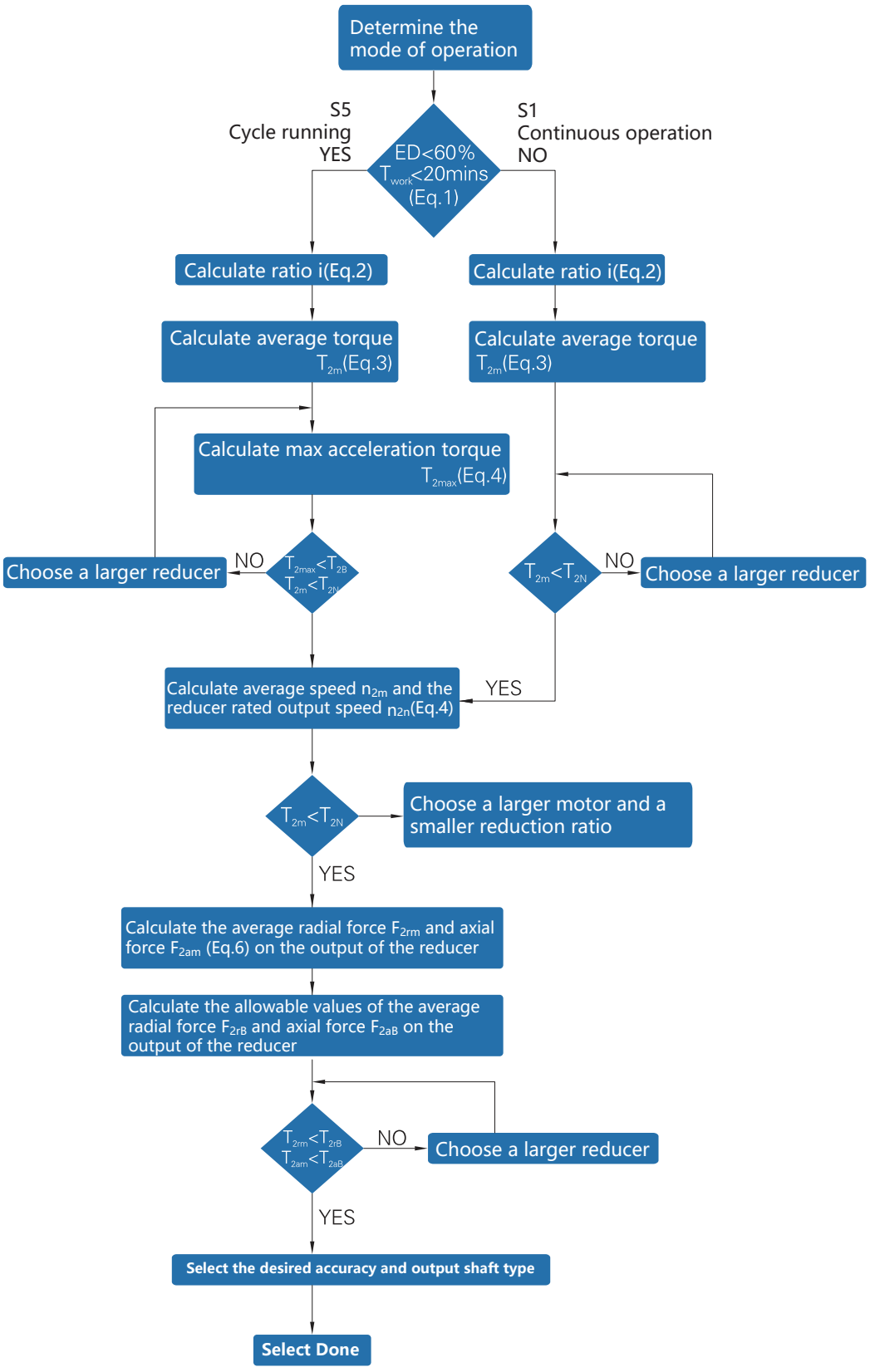
• **60series** 	Advantage (1) Small size (2) High precision (3) The minimum spacing can reach 8.5mm (4) Repetitive positioning accuracy of 0.025mm (5) Paired with 100w same outfit or 42 step
• **60Fseries** 	Advantage (1) Small size (2) High precision (3) The minimum spacing can reach 12mm (4) Repetitive positioning accuracy of 0.025mm (5) Paired with 100w same outfit or 42 step
• **80series** 	Advantage (1) Multiple workstations (2) High precision (3) The minimum spacing can reach 12.6mm (4) Repetitive positioning accuracy of 0.025mm (5) Paired with 400w server or 57-60 step size
• **80Fseries** 	Advantage (1) Multiple workstations (2) High precision (3) The minimum spacing can reach 22.6mm (4) Repetitive positioning accuracy of 0.025mm (5) Paired with 400W server or 57-60 step size
• **130Fseries** 	Advantage (1) Large load (2) Structural stability (3) Lightweight (4) The minimum spacing can reach 23mm (5) Repetitive positioning accuracy of 0.025mm (6) Paired with 750W Dong clothing, it can be evaluated whether to add a reducer according to the customer's single station load requirements
• **CLJS** 	Advantage (1) High precision (2) Long journey (3) Each workstation can be individually controlled (4) The workstation can be moved as a whole (5) Repetitive positioning accuracy of 0.05MMM

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Precision reducer

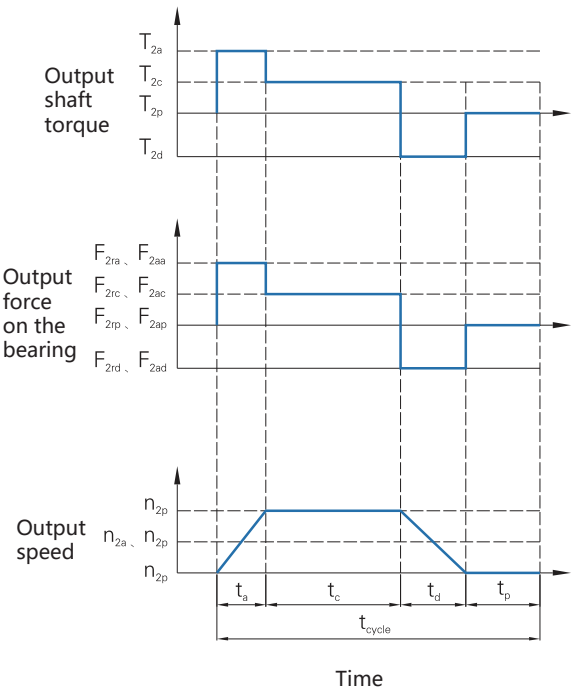


Choose a reducer



Recommendations for the operation of the S5 cycle	
The general application inertia must conform to the following formula: $\frac{J_L}{i^2} \leqslant 4 \times J_m$	The most appropriate application inertia must conform to the following formula: $\frac{J_L}{i^2} \cong J_m$

J_L:Load inertia J_M:Motor inertia



1 $ED=\frac{t_a+t_c+t_d}{t_{cycle}} \times 100\%$ ， $t_{work}=t_a+t_c+t_d$

a: Hasten c: Constant velocity
d: Decelerate p: Stop

(Eq.1)

2 $i \cong \frac{n_m}{n_{work}}$

n_m:Motor output speed
n_{work}:Practical application speed

(Eq.2)

3 $T_{2m}=\sqrt[3]{\frac{n_{2a}xt_axT_{2a}^{\ 3}+n_{2c}xt_cxT_{2c}^{\ 3}+n_{2d}xt_dxT_{2d}^{\ 3}}{n_{2a}xt_a+n_{2c}xt_c+n_{2d}xt_d}}$

(Eq.3)

4 $T_{2max}=T_{mB}xixk_sx\ \eta$

	Ks	Number of cycles/hour
Ks Load factor	1.0	0-1000
	1.1	1000-1500
	1.3	1500-2000
	1.6	2000-3000
	1.8	3000-5000

T_{mB}: Max motor output torque
η: Reducer operating efficiency

(Eq.4)

5 $n_{2a}=n_{2d}=\frac{1}{2}xn_{2c}$

$n_{2m}=\frac{n_{2a}xt_a+n_{2c}xt_c+n_{2d}xt_d}{T_a+t_c+t_d}$

$n_{2N}=\frac{n_{1N}}{i}$

(Eq.5)

6 $F_{2rm}=\sqrt[3]{\frac{n_{2a}xt_axF_{2ra}^{\ 3}+n_{2c}xt_cxF_{2rc}^{\ 3}+n_{2d}xt_dxF_{2rd}^{\ 3}}{N_{2a}xt_a+n_{2c}xt_c+n_{2d}xt_d}}$

$F_{2am}=\sqrt[3]{\frac{n_{2a}xt_axF_{2aa}^{\ 3}+n_{2c}xt_cxF_{2rc}^{\ 3}+n_{2d}xt_dxT_{2ad}^{\ 3}}{n_{2a}xt_a+n_{2c}xt_c+n_{2d}xt_d}}$

(Eq.6)

HAB series planetary reducer

Features

- The planetary boom and output shaft are designed in a one-piece structure to ensure maximum torsional rigidity.
- The planetary gear adopts a full needle roller design to increase the contact area to improve structural rigidity and output torque.
- The gears are carburized and quenched to HRC62 on the surface of mild steel to obtain the best wear resistance and impact toughness.
- The tooth shape is imported from abroad to assist in the design to obtain the best tooth shape and reduce noise.
- The input is connected to the motor shaft by bilateral clamping for maximum clamping force and zero backlash power transfer.



Model

H – AB – 090 – 010 – P1 –

H	AB	090	010	P1
品牌 Brand	系列 Model	规格 Size	减速比 Ratio	精度 Precision
	AB	060	3	P0=1 arcmin
		090	4	P1=3 arcmin
		115	5	P2=5 arcmin
			6	
			7	
			8	
			10	
			15	
			20	
			25	
			35	
			40	
			50	
			60	
			70	
			80	
			100	

马达型号 Motor reference

Ordering instruction

- Model, torque
- Reduction ratio or output shaft speed
- Working condition and connection mode
- Quantity and name of machinery installed
- Input mode and speed
- Motor brand, model or size of flange and motor shaft

Reducer performance data

规格 Specification	单位 Unit	节数 Stage	减速比 Ratio	HAB042	HAB060	HAB090	HAB115	HAB142	HAB180	HAB220
额定输出力矩 Rated output torque T_{2N}	Nm	1	3	20	55	130	208	342	588	1140
			4	19	50	140	290	542	1050	1700
			5	22	60	160	330	650	1200	2000
			6	20	55	150	310	600	1100	1900
			7	19	50	140	300	550	1100	1800
			8	17	45	120	260	500	1000	1600
			10	14	40	100	230	450	900	1500
		2	15	20	55	130	208	342	588	1140
			20	19	50	140	290	542	1050	1700
			25	22	60	160	330	650	1200	2000
			30	20	55	150	310	600	1100	1900
			35	19	50	140	300	550	1100	1800
			40	17	45	120	260	500	1000	1600
			50	22	60	160	330	650	1200	2000
			60	20	55	150	310	600	1100	1900
			70	19	50	140	300	550	1100	1800
			80	17	45	120	260	500	1000	1600
			100	14	40	100	230	450	900	1500
急停扭矩 /Emergency stop torque T_{2NOT}	Nm	1,2	3 ~ 100	三倍额定输出力矩 /Triple rated output torque						
额定输入转速 /Rated input speed n_{1N}	rpm	1,2	3 ~ 100	5000	5000	4000	4000	3000	3000	2000
最大输入转速 /Maximum output speed n_{1B}		1,2	3 ~ 100	10000	10000	8000	8000	6000	6000	4000
精密背隙 /Precision backlash P1	arcmin	1	3 ~ 10	-	≤3	≤3	≤3	≤3	≤3	≤3
		2	15 ~ 100	-	≤5	≤5	≤5	≤5	≤5	≤5
标准背隙 /Standard backlash P2	arcmin	1	3 ~ 10	≤5	≤5	≤5	≤5	≤5	≤5	≤5
		2	15 ~ 100	≤8	≤8	≤8	≤8	≤8	≤8	≤8
经济背隙 /Economic backlash P3	arcmin	1	3 ~ 10	≤8	≤8	≤8	≤8	≤8	≤8	≤8
		2	15 ~ 100	≤12	≤12	≤12	≤12	≤12	≤12	≤12
扭转刚性 /Torsional rigidity	Nm/arcmin	1,2	3 ~ 100	3	7	14	25	50	145	225
容许径向力 /Allowable radial force F_{2aB}	N	1,2	3 ~ 100	780	1530	3250	6700	9400	14500	50000
容许轴向力 /Allowable axial force F_{2aB}	N	1,2	3 ~ 100	390	765	1625	3350	4700	7250	25000
使用寿命 /Lifespan	hr	1,2	3 ~ 100	20000						
效率 /Efficiency	%	1	3 ~ 10	≥97%						
		2	15 ~ 100	≥94%						
重量 /Weight	kg	1	3 ~ 10	0.6	1.3	3.7	7.8	14.5	29	48
		2	15 ~ 100	0.8	1.5	4.1	9	17.5	33	60
使用温度 /Working temperature	℃	1,2	3 ~ 100	-10℃ ~ 90℃						
润滑 /Lubricating		1,2		合成润滑油脂 /Synthetic lubricating grease						
防护等级 /IP Grade		1,2	3 ~ 100	IP65						
安装方向 /Installation direction		1,2	3 ~ 100	任意方向 /In any direction						
噪音值（n1=3000rpm, 无负载） Noise level（n1=3000rpm,off load）	dB(A)	1,2	3 ~ 100	≤56	≤58	≤60	≤63	≤65	≤67	≤70

Reducer rotational inertia

规格 Specification	单位 Unit	节数 Stage	减速比 Ratio	HAB042	HAB060	HAB090	HAB115	HAB142	HAB180	HAB220
转动惯量J1 Rotational inertia J1	kg·cm²	1	3	0.03	0.16	0.61	3.25	9.21	28.98	69.61
			4	0.03	0.14	0.48	2.74	7.54	23.67	54.37
			5	0.03	0.13	0.47	2.71	7.42	23.29	53.27
			6	0.03	0.13	0.45	2.65	7.25	22.75	51.72
			7	0.03	0.13	0.45	2.62	7.14	22.48	50.97
			8	0.03	0.13	0.44	2.58	7.07	22.59	50.84
			10	0.03	0.13	0.44	2.57	7.03	22.51	50.56
		2	15	0.03	0.03	0.13	0.47	2.71	7.42	23.29
			20	0.03	0.03	0.13	0.47	2.71	7.42	23.29
			25	0.03	0.03	0.13	0.47	2.71	7.42	23.29
			30	0.03	0.03	0.13	0.47	2.71	7.42	23.29
			35	0.03	0.03	0.13	0.47	2.71	7.42	23.29
			40	0.03	0.03	0.13	0.47	2.71	7.42	23.29
			50	0.03	0.03	0.13	0.44	2.57	7.03	22.51
			60	0.03	0.03	0.13	0.44	2.57	7.03	22.51
			70	0.03	0.03	0.13	0.44	2.57	7.03	22.51
			80	0.03	0.03	0.13	0.44	2.57	7.03	22.51
			100	0.03	0.03	0.13	0.44	2.57	7.03	22.51

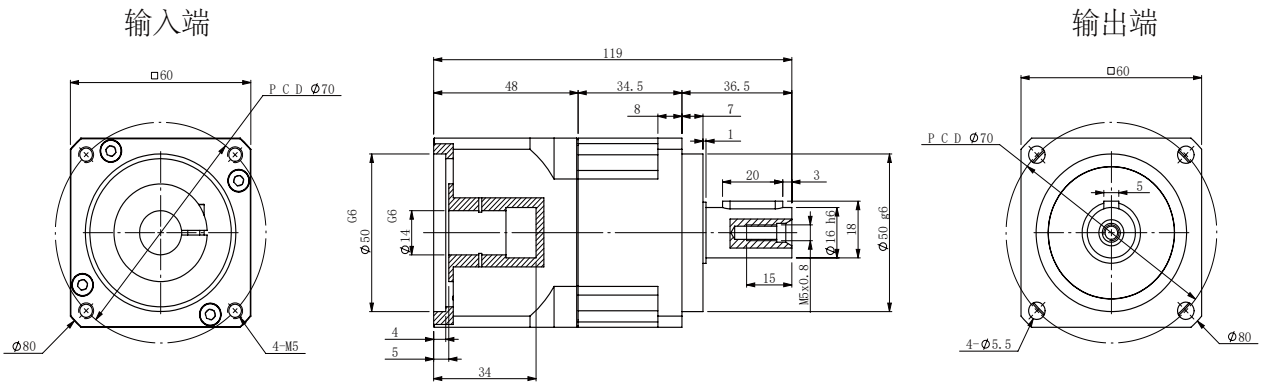
1.减速比（$i=N_{in}/N_{out}$）
1. Ratio（$i=N_{in}/N_{out}$）

2.最大加速力矩 T_{2B} =60% of T_{2NOT}
2. Maximum acceleration torque T_{2B} =60% of T_{2NOT}

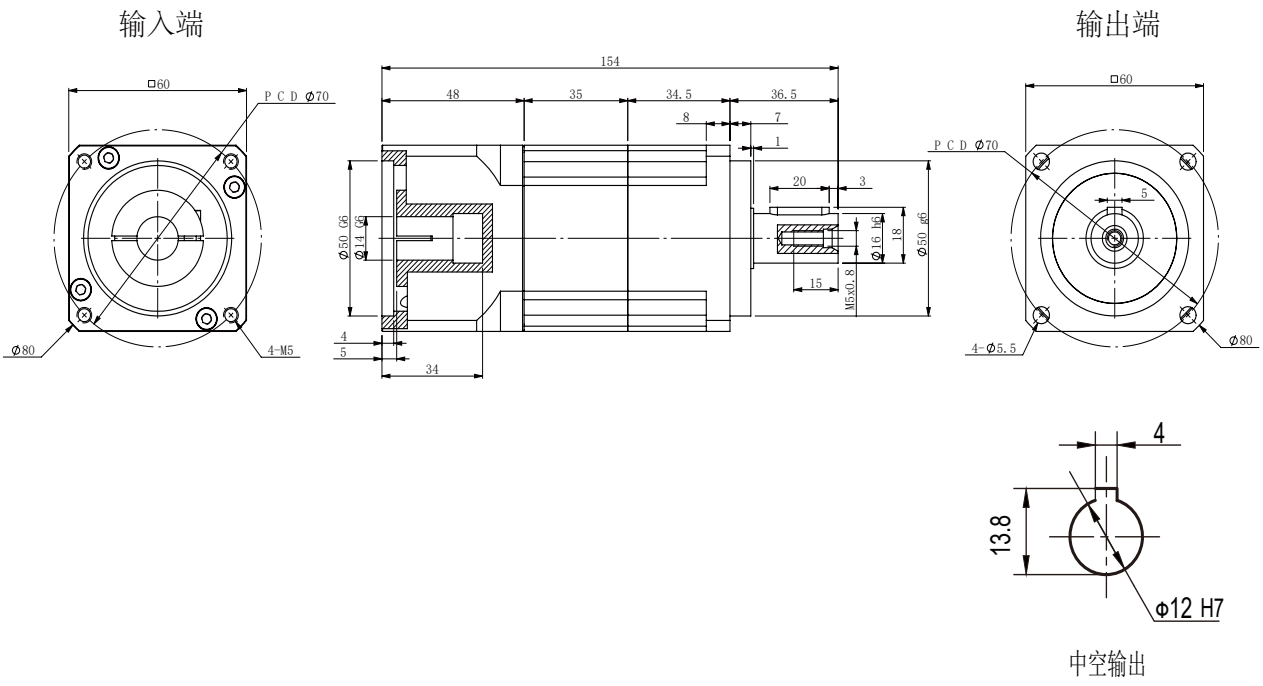
3. 输出转数 100rpm ,作用于输出轴中心位置
3. Output speed100rpm,acting on the center of the output shaft

HAB060外形图　　14-50-70-M5接口

HAB060一级外形图



HAB060二级外形图



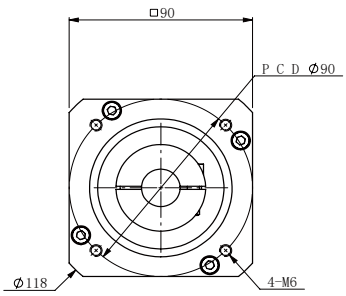
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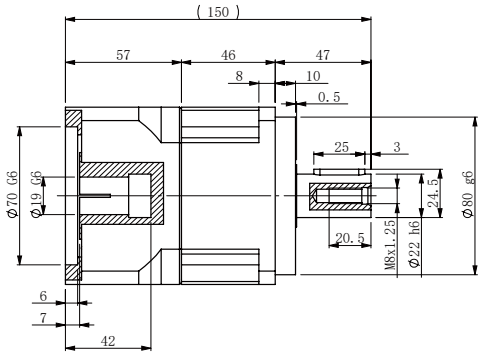
注：以上图纸仅为参考，具体以电机图为准

HAB090外形图　　19-70-90-M6接口

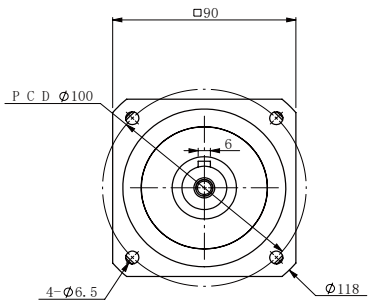
HAB090一级外形图

输入端



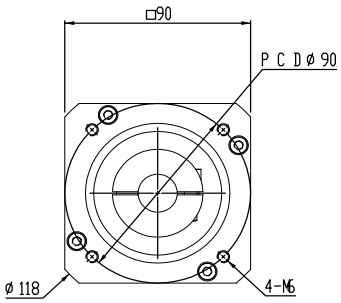


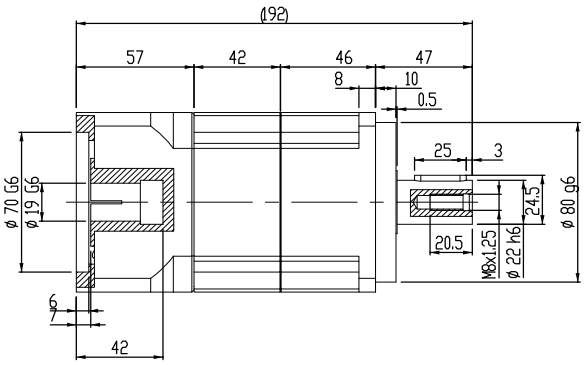
输出端



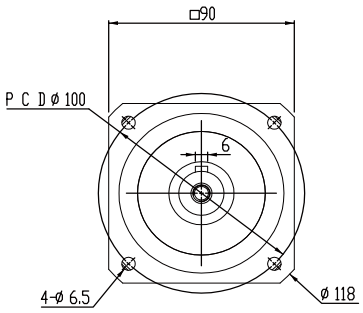
HAB090二级外形图

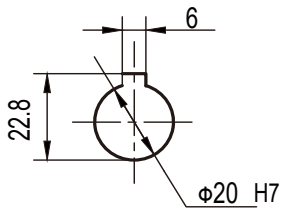
输入端





输出端



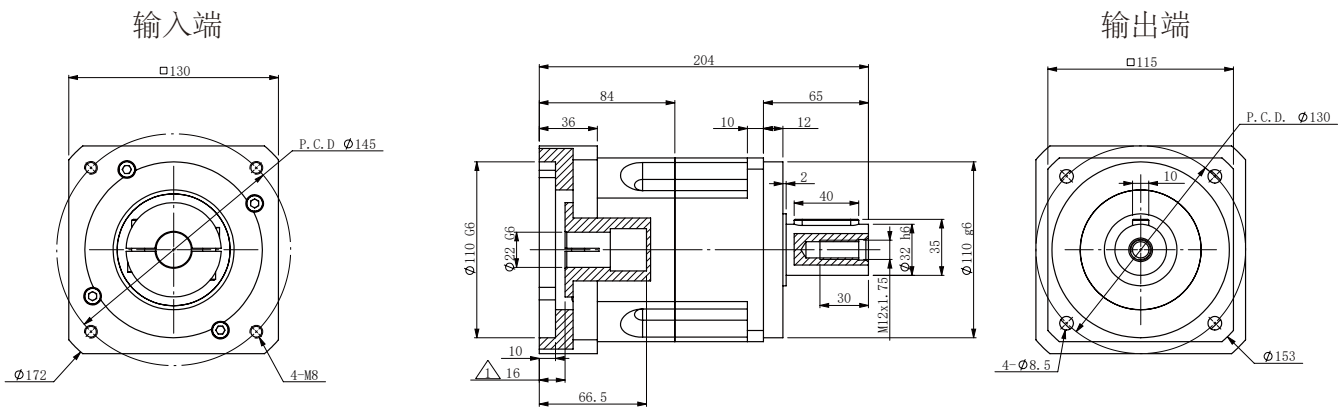


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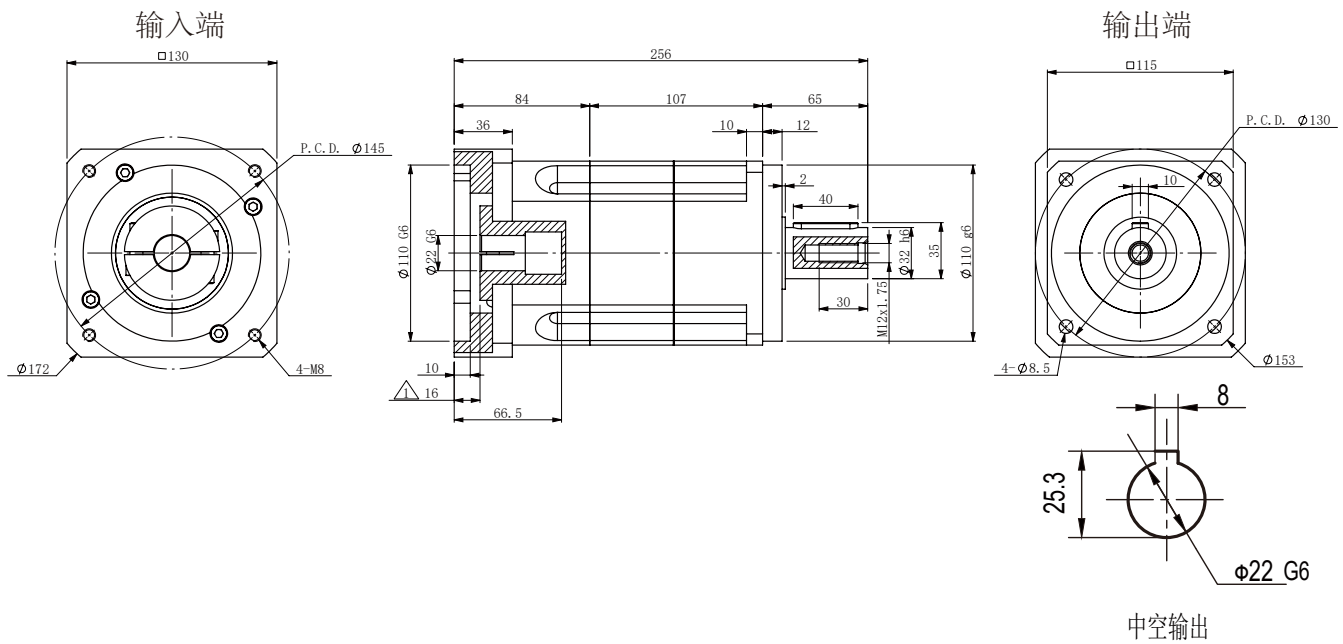
注：以上图纸仅为参考，具体以电机图为准

HAB115外形图　　22-110-145-M8接口

HAB115一级外形图

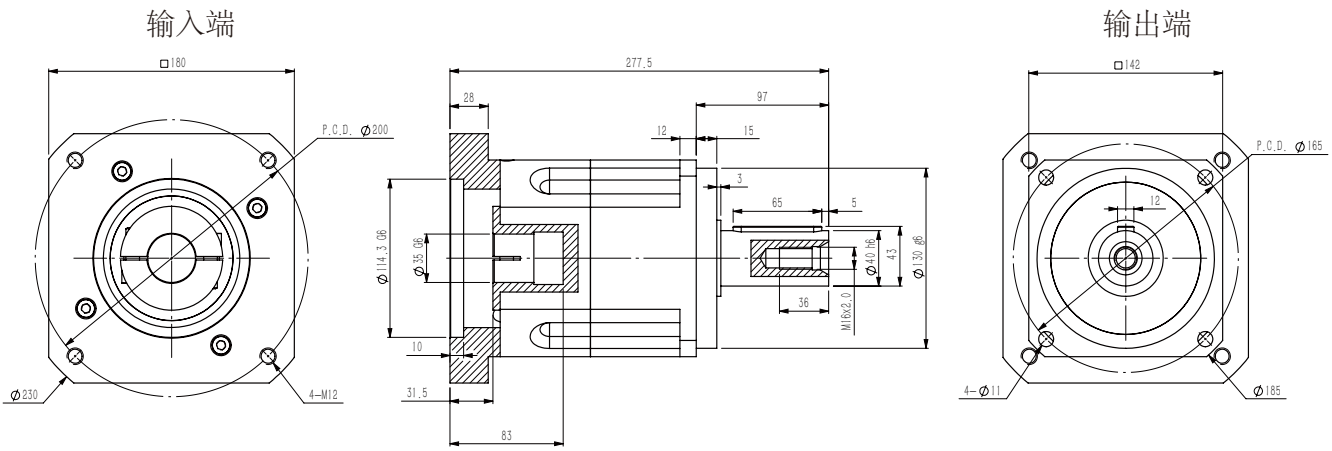


HAB115二级外形图

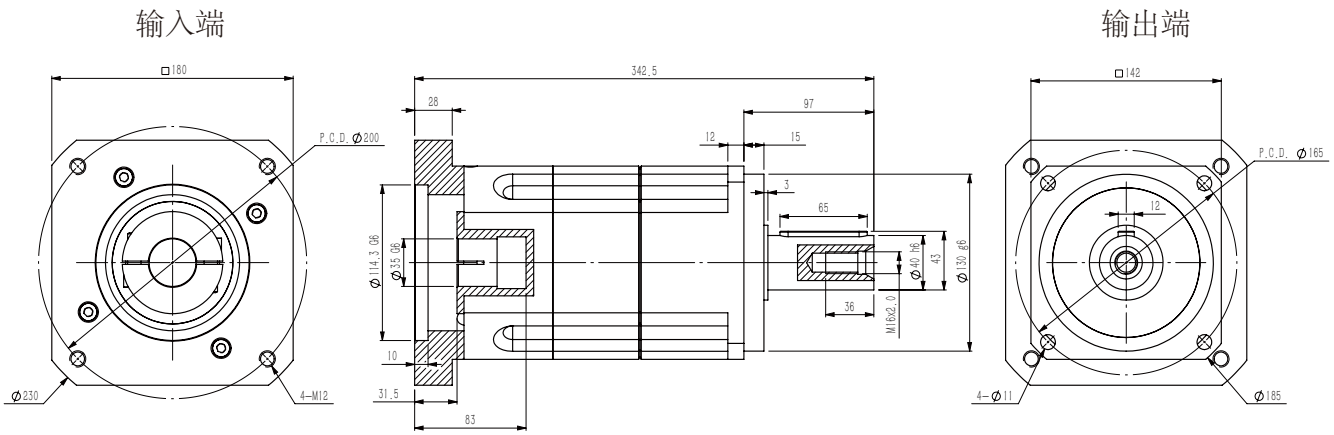


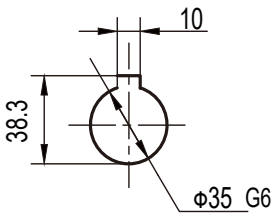
注：以上图纸仅为参考，具体以电机图为准

HAB142一级外形图



HAB142二级外形图





中空输出

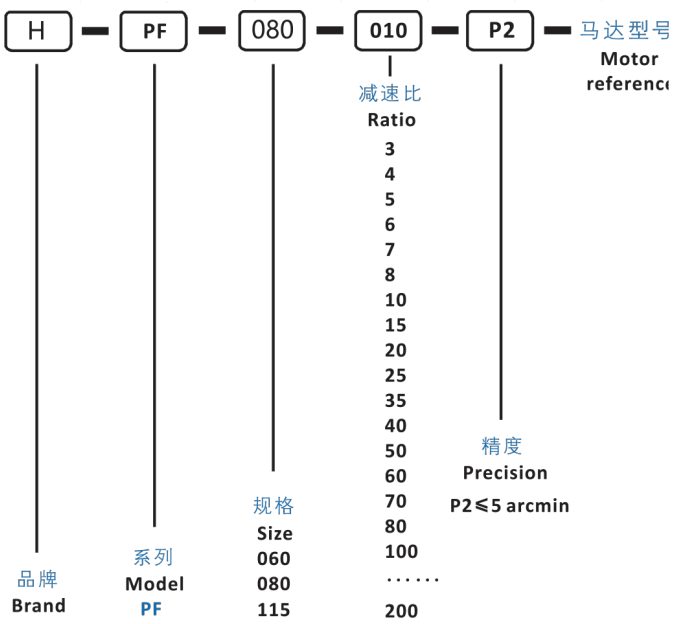
注：以上图纸仅为参考，具体以电机图为准

HPF series planetary reducer

Features

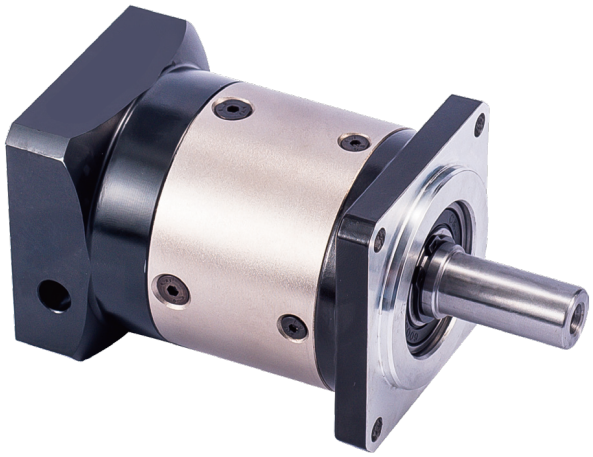
- The planetary boom and output shaft are designed in a one-piece structure to ensure maximum torsional rigidity.
- The planetary gear adopts a full needle roller design to increase the contact area to improve structural rigidity and output torque.
- The gears are carburized and quenched to HRC62 on the surface of mild steel to obtain the best wear resistance and impact toughness.
- The tooth shape is imported from abroad to assist in the design to obtain the best tooth shape and reduce noise.
- The input is connected to the motor shaft by bilateral clamping for maximum clamping force and zero backlash power transfer.

Model



Ordering instruction

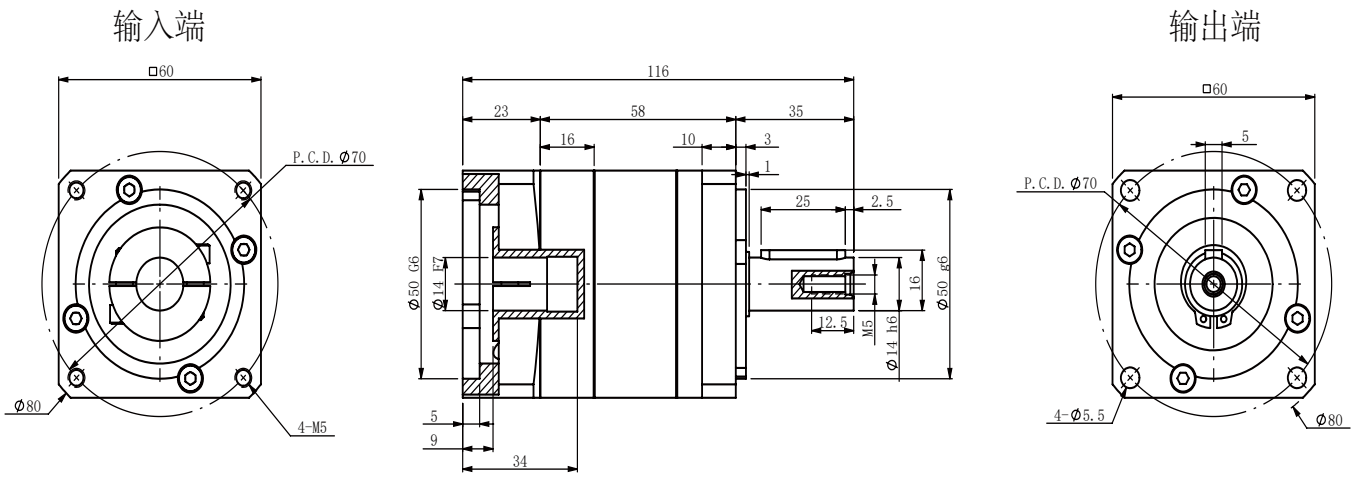
- Type, model and torque
- Speed ratio or R.P.M of output shaft
- Connection type and operating mode
- Quantity, brand and model of installed devices
- Speed ratio & R.P.M of intput shaft
- Motor brand/model of flange/motor shaft sizes



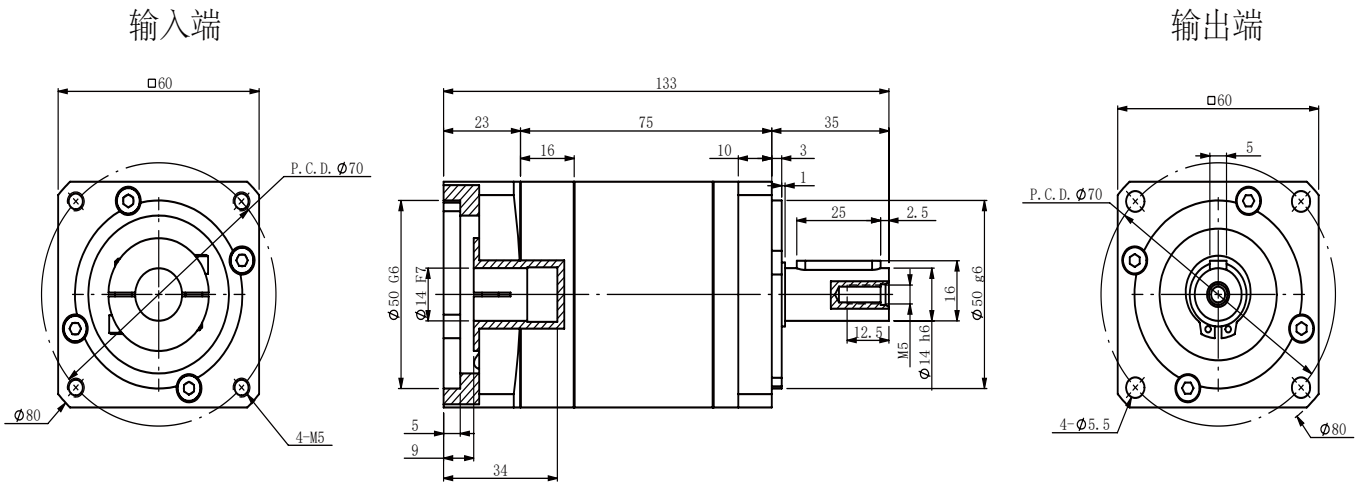
Reducer performance data

规格		节数	减速比	HPF060	HPF080	HPF115
额定输出力矩T_{2N}	Nm	1	3	18	40	125
			4	36	90	230
			5	40	110	260
			6	20	40	90
			7	20	40	90
			8	12	22	70
			10	12	22	70
		2	12	36	90	230
			15	40	110	260
			16	36	90	230
			20	40	110	260
			25	40	110	260
			28	36	90	230
			30	18	40	125
			35	40	110	260
			40	36	90	230
			50	40	110	260
			60	20	40	90
			70	20	40	90
			80	12	22	70
			100	12	22	70
装置马达轴孔径	mm	1,2	3–100	6–14	14–19	16–24
最大输出扭矩	Nm	1,2	3–100	二倍额定输出力矩		
额定输入转速 n_{1N}	rpm	1,2	3–100	4000	3500	3500
背隙	arcmin	1	3–10	≤10	≤8	≤8
		2	12–100	≤12	≤10	≤10
扭转刚性	Nm/arcmin	1,2	3–100	1.8	4.7	11
容许径向力 F_{2rB}	N	1,2	3–100	220	400	1000
容许轴向力 F_{2aB}	N	1,2	3–100	240		1240
使用寿命	hr	1,2	3–100		10000	
效率	%	1	3–10		≥96	
		2	12–100		≥93	
重量	kg	1	3–10	1.7	4.4	12
		2	12–100	1.9	5	14
使用温度	℃	1,2	3–100		-10℃-80℃	
防护等级		1,2	3–100		IP54	
润滑					合成润滑油脂	
安装方向		1,2	3–100		任意方向	
噪音值（n_1=3000rpm,无负载）	dB(A)	1,2	3–100	≤61	≤63	≤68

HPF60一级外形图



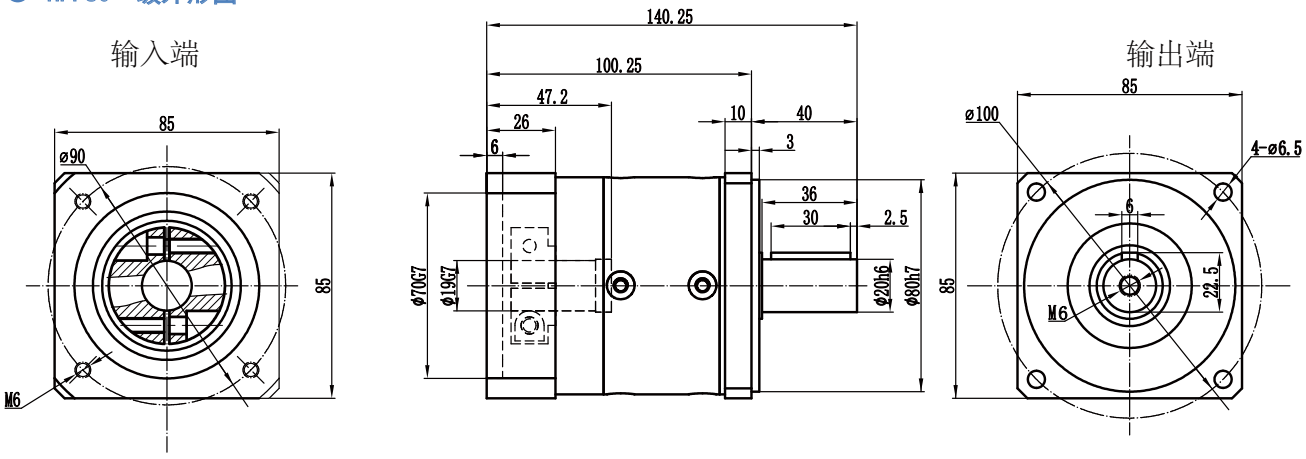
HPF60二级外形图



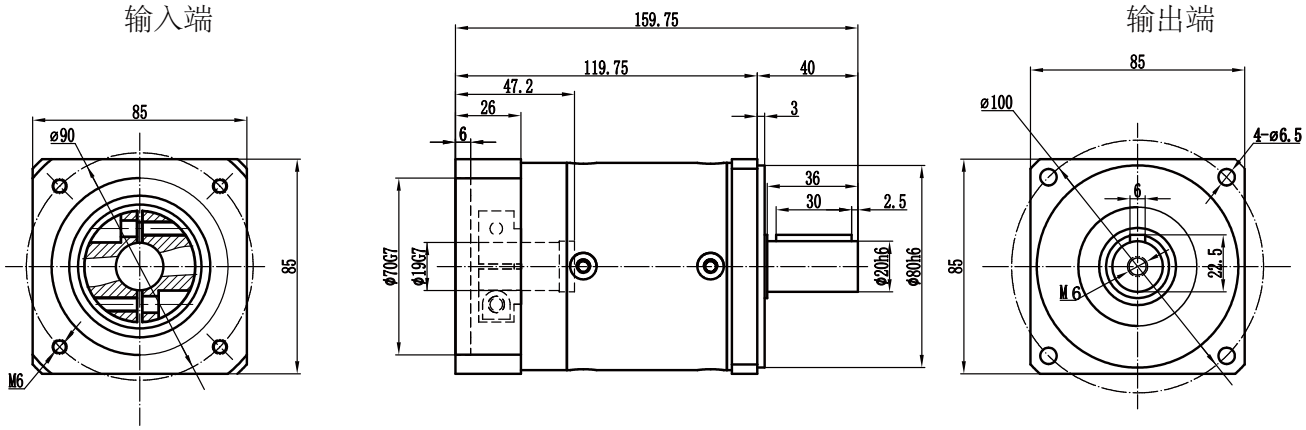
注：以上图纸仅为参考，具体以电机图为准

HPF80外形图　　19-70-90-M6接口

HPF80一级外形图



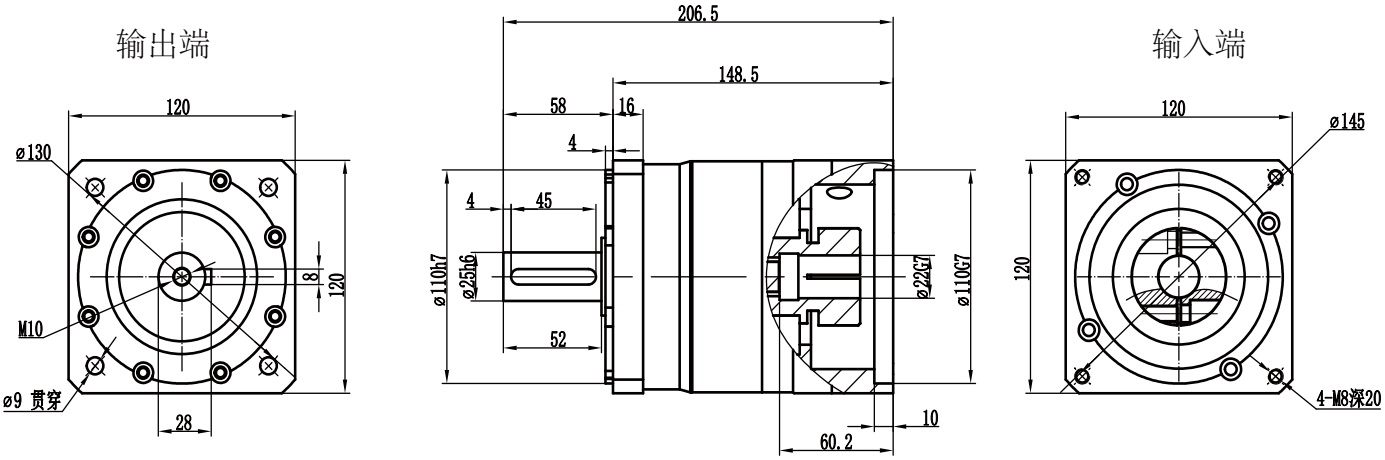
HPF80二级外形图



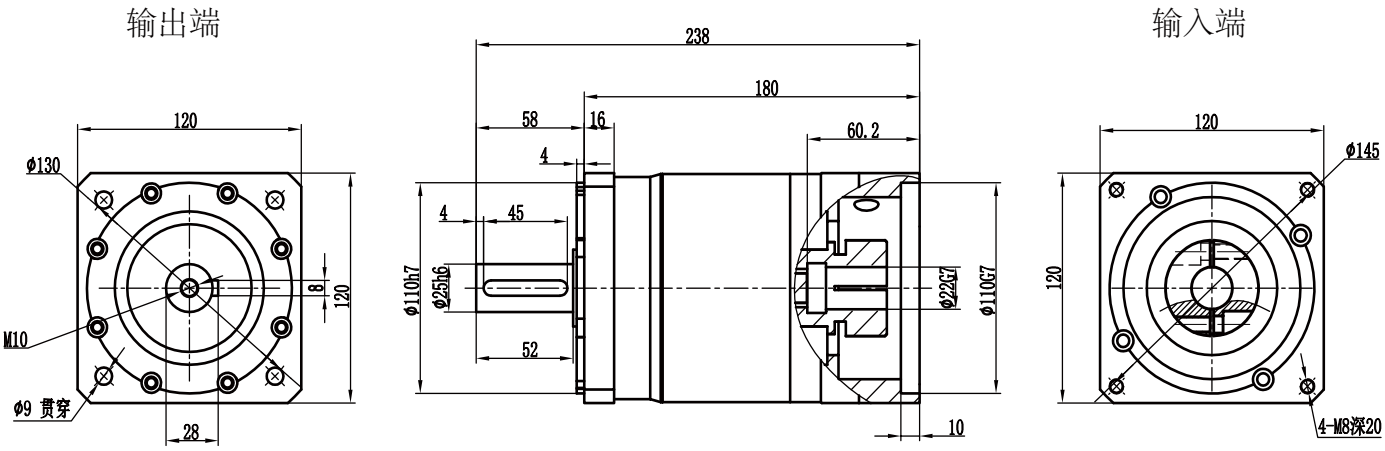
注：以上图纸仅为参考，具体以电机图为准

HPF115外形图　　22-110-145-M8接口

HPF115一级外形图



HPF115二级外形图

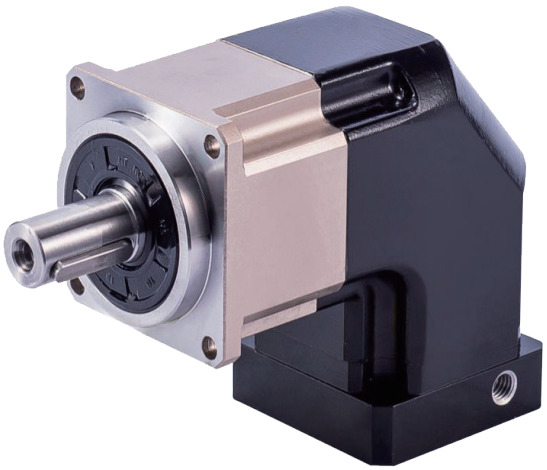


注：以上图纸仅为参考，具体以电机图为准

HABR Series planetary reducer

Features

- The planetary boom and output shaft are designed in a one-piece structure to ensure maximum torsional rigidity.
- The planetary gear adopts a full needle roller design to increase the contact area to improve structural rigidity and output torque.
- The gears are carburized and quenched to HRC62 on the surface of mild steel to obtain the best wear resistance and impact toughness.
- The tooth shape is imported from abroad to assist in the design to obtain the best tooth shape and reduce noise.
- The input is connected to the motor shaft by bilateral clamping for maximum clamping force and zero backlash power transfer.
- It adopts a spiral-bevel gear design, which allows high output torque and is more than 30% higher than a straight bevel gear.
- High allowable input speed, more than 8 times higher than straight bevel gear input.
- The meshing tooth print of the spiral-bevel gear is optimally designed, the contact tooth surface load is uniform, and the operating life is long.
- The spiral-bevel gear meshes with optimal motion error analysis and strict process control to ensure high-precision operating backlash.



Model

H — ABR — 090 — 010 — P1 — 马达型号 Motor reference

品牌 Brand	系列 Model	规格 Size	减速比 Ratio	精度 Precision
H	ABR	060	3	P0≤2 arcmin
		090	4	P1≤4 arcmin
		115	5	P2≤6 arcmin
			6	
			7	
			8	
			10	
			15	
			20	
			25	
			35	
			40	
			50	
			60	
			70	
			80	
			100	
			.....	
			200	

Ordering instruction

- Type, model and torque
- Speed ratio or R.P.M of output shaft
- Connection type and operating mode
- Quantity, brand and model of installed devices
- Speed ratio & R.P.M of intput shaft
- Motor brand/model of flange/motor shaft sizes

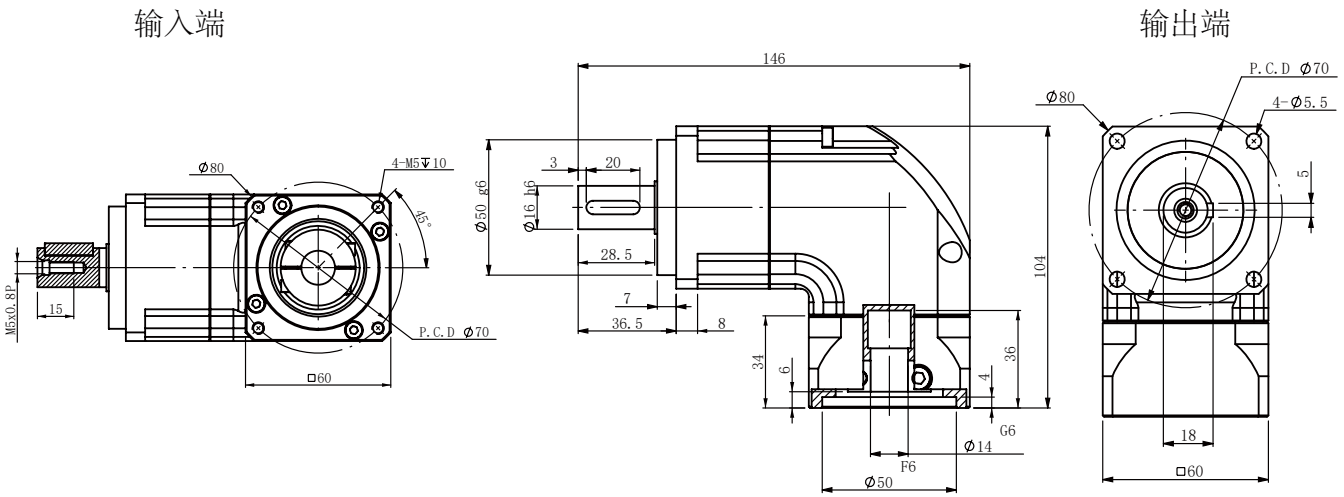
Reducer performance data

规格 Specification	单位 Unit	节数 Stage	减速比 Ratio	HABR042	HABR060	HABR090	HABR115	HABR142	HABR180
额定输出力矩 Rated output torque T_{2N}	Nm	1	3	9	36	90	195	342	588
			4	12	48	120	260	520	1040
			5	15	60	150	325	650	1200
			6	18	55	150	310	600	1100
			7	19	50	140	300	550	1100
			8	17	45	120	260	500	1000
			10	14	40	100	230	450	900
			12	18	55	150	310	600	1100
			14	19	50	140	300	550	1100
			20	14	40	100	230	450	900
		2	15	15	60	150	325	650	1200
			25	15	60	150	325	650	1200
			30	20	55	150	310	600	1100
			35	19	50	140	300	550	1100
			40	17	45	120	260	500	1000
			45	14	40	100	230	450	900
			50	14	60	100	230	650	1200
			60	20	55	150	310	600	1100
			70	19	50	140	300	550	1100
			80	17	45	120	260	500	1000
			90	14	40	100	230	450	900
			100	14	40	100	230	450	900
			120	18	55	150	310	600	1100
			140	19	50	140	300	550	1100
			160	17	45	120	260	500	1000
			200	14	40	100	230	450	900
急停扭矩 /Emergency stop torque T_{2NOT}	Nm	1,2	3~200	三倍额定输出力矩 /Triple rated output torque					
额定输入转速/Rated input speed n_{1N}	rpm	1,2	3~200	5000	5000	4000	4000	3000	3000
最大输入转速/Maximum output speed n_{1B}	rpm	1,2	3~200	10000	10000	8000	8000	6000	6000
精密背隙 /Precision backlash P1*	arcmin	1	3~20	≤4	≤4	≤4	≤4	≤4	≤4
		2	15~200	≤7	≤7	≤7	≤7	≤7	≤7
标准背隙 /Standard backlash P2*	arcmin	1	3~20	≤6	≤6	≤6	≤6	≤6	≤6
		2	15~200	≤9	≤9	≤9	≤9	≤9	≤9
经济背隙 /Economic backlash P3	arcmin	1	3~20	≤8	≤8	≤8	≤8	≤8	≤8
		2	15~200	≤12	≤12	≤12	≤12	≤12	≤12
扭转刚性 /Torsional rigidity	Nm/arcmin	1,2	3~200	3	7	14	25	50	145
容许径向力 /Allowable radial force F_{2aB}	N	1,2	3~200	780	1530	3250	6700	9400	14500
容许轴向力 /Allowable axial force F_{2aB}	N	1,2	3~200	390	765	1625	3350	4700	7250
使用寿命 /Lifespan	hr	1,2	3~200	20000 *					
效率 /Efficiency	%	1	3~20	95%					
		2	25~200	92%					
重量 /Weight	kg	1	3~20	0.9	2.1	6.4	13	24.5	51
		2	25~200	1.2	1.5	7.8	14.2	27.5	54
使用温度 /Working temperature	℃	1,2	3~200	（-10° C +90° C）					
润滑 /Lubricating				合成润滑脂 /Synthetic lubricating grease					
防护等级 /IP Grade		1,2	3~200	IP65					
安装方向 /Installation direction		1,2	3~200	任意方向 /In any direction					
噪音值（n1=3000rpm,无负载） Noise level（n1=3000rpm,off load）	dB(A)	1,2	3~200	≤61	≤63	≤65	≤68	≤70	≤72

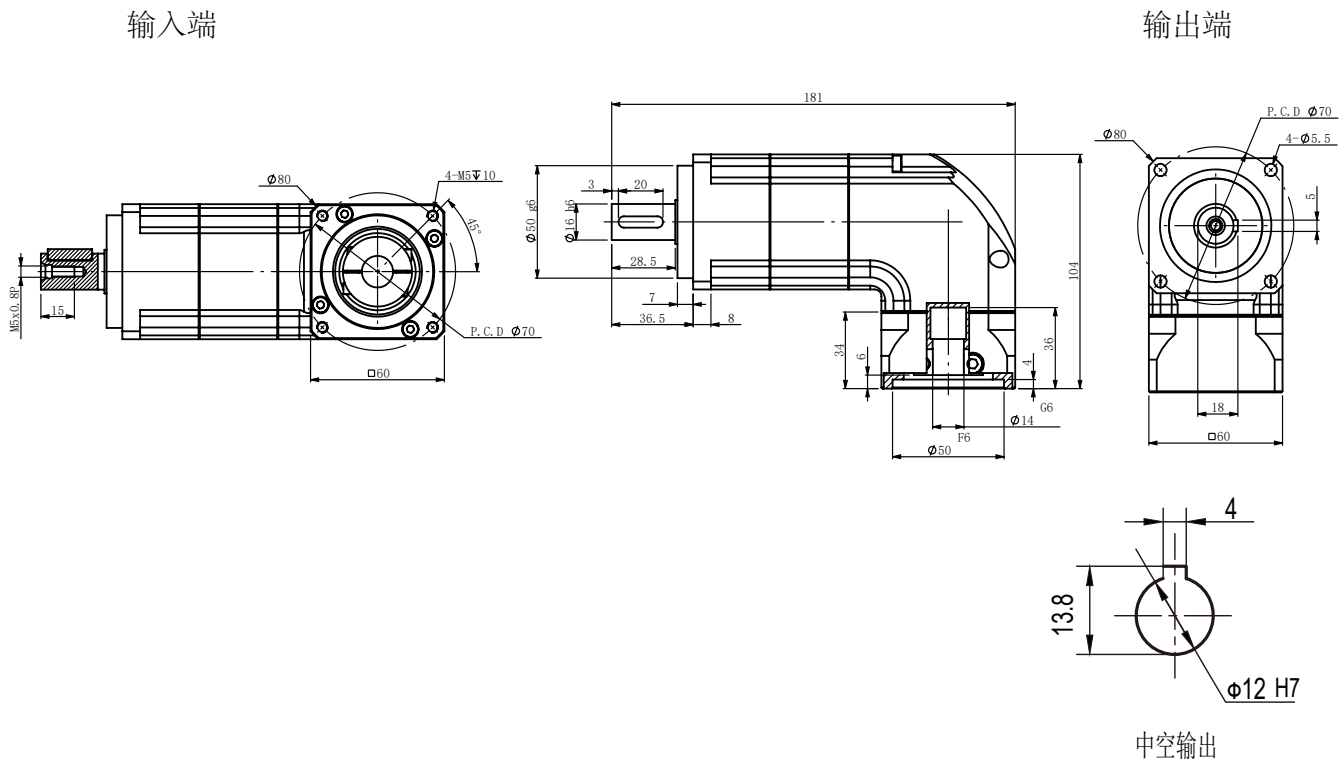
（带“*”的精度需与工程师确认/Need confirm with our engineer for those precision data with *）

HABR060外形图　　14-50-70-M5接口

HABR060一级外形图



HABR060二级外形图

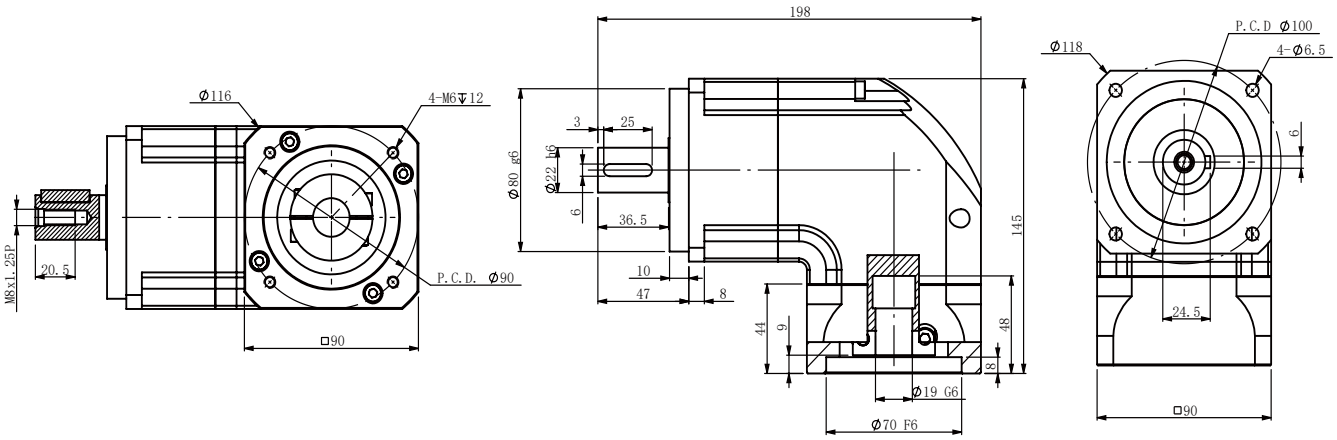


注：以上图纸仅为参考，具体以电机图为准

HABR090外形图　　19-70-90-M6接口

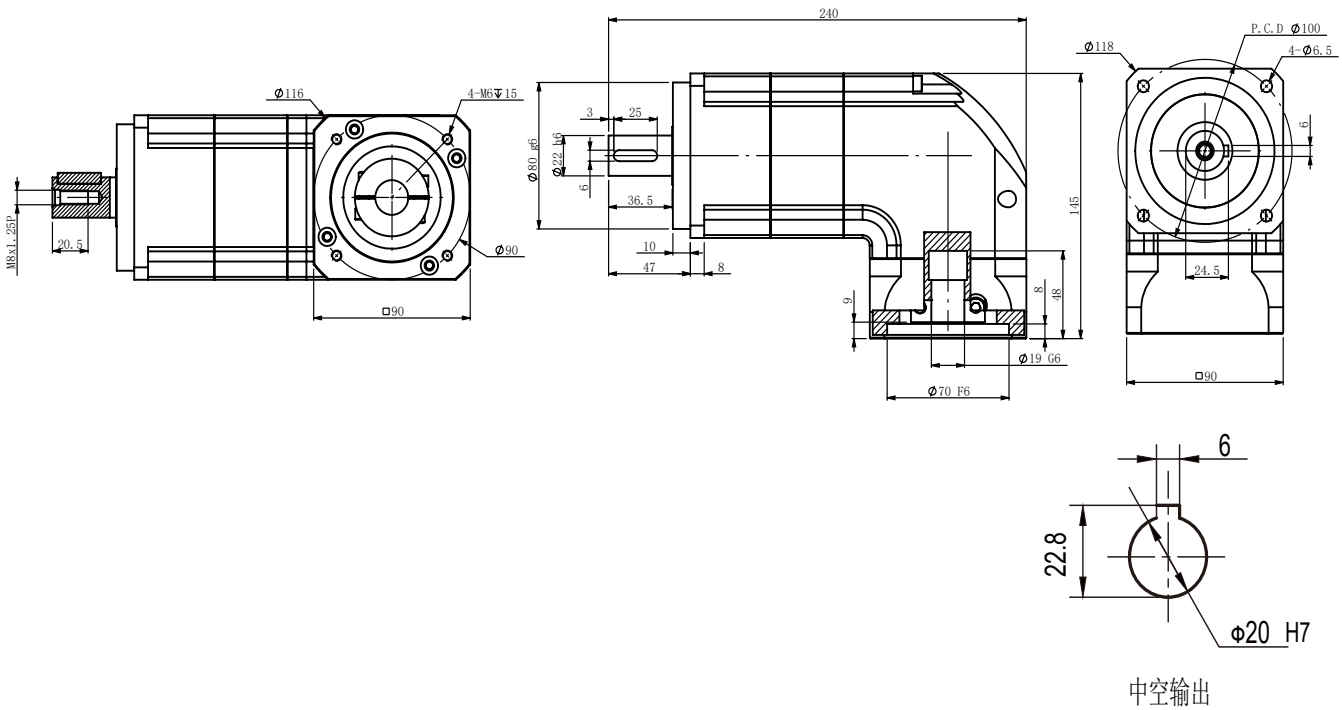
HABR090一级外形图

输入端　　输出端



HABR090二级外形图

输入端　　输出端



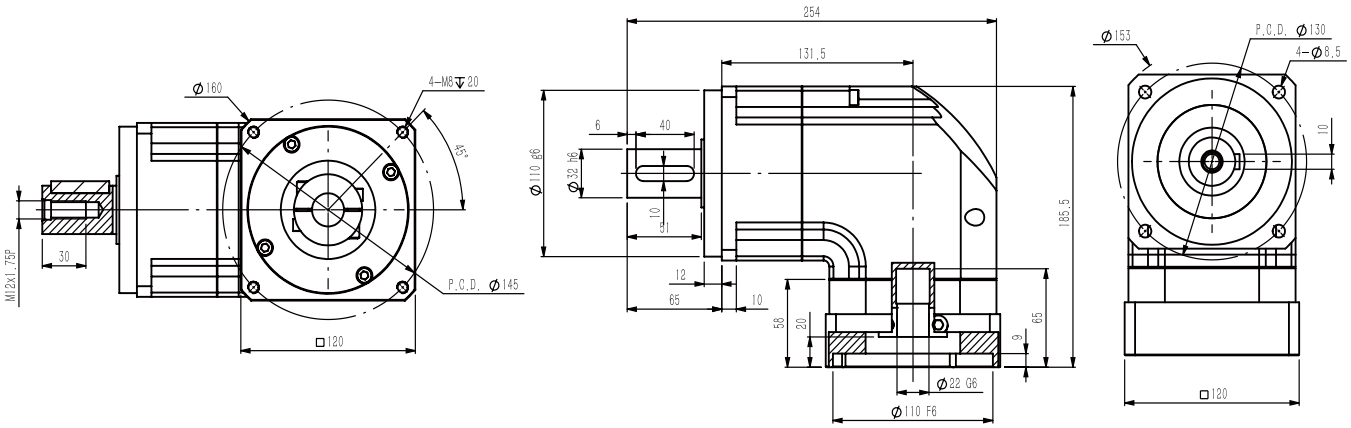
中空输出

注：以上图纸仅为参考，具体以电机图为准

HABR115外形图　　22-110-145-M8接口

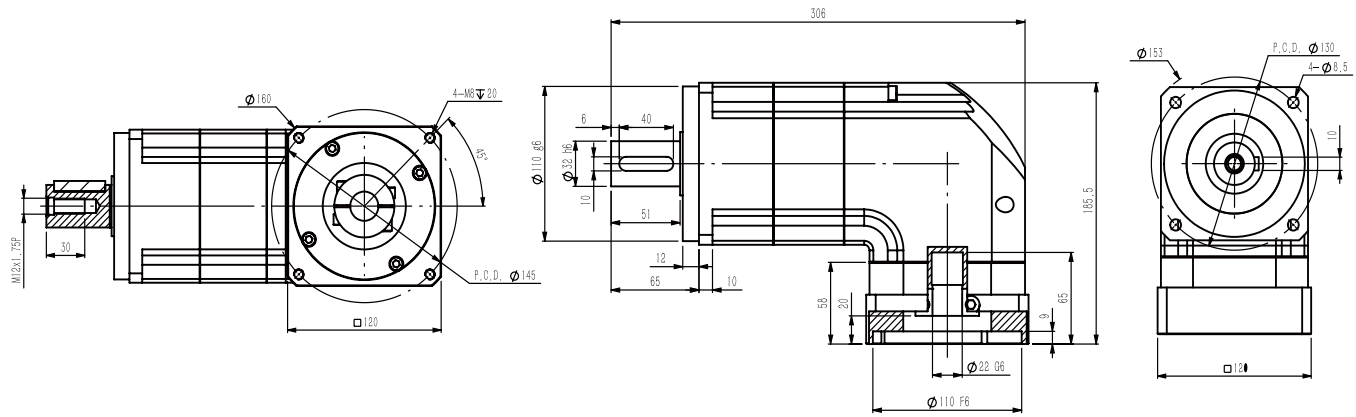
HABR115一级外形图

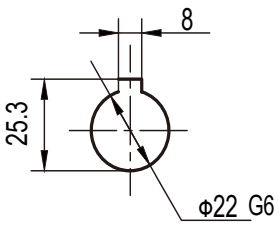
输入端　　输出端



HABR115二级外形图

输入端　　输出端





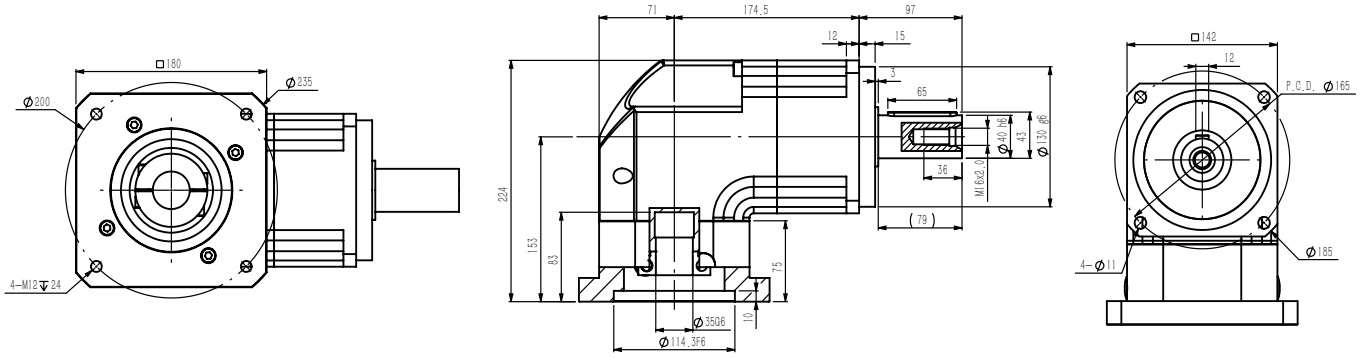
中空输出

注：以上图纸仅为参考，具体以电机图为准

HABR142外形图　　35-114.3-200-M12接口

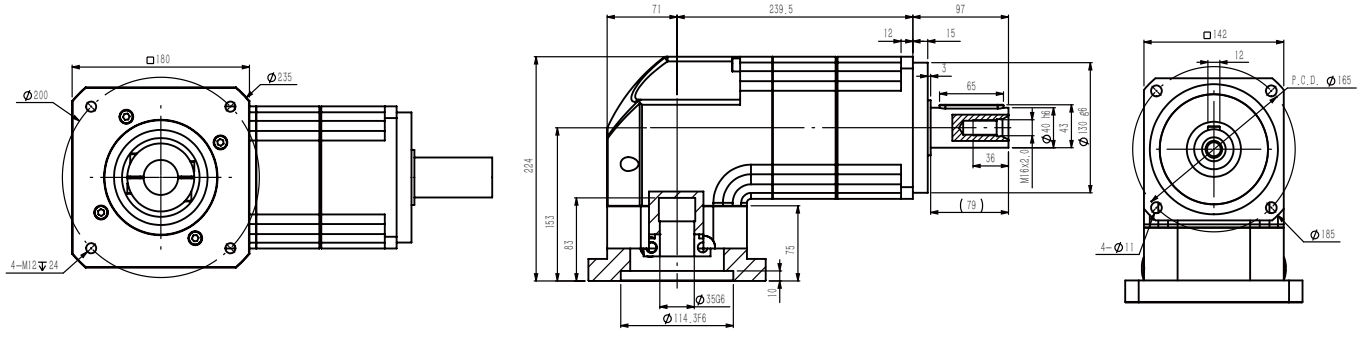
HABR142一级外形图

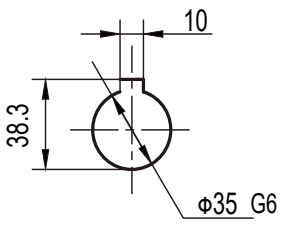
输入端　　输出端



HABR142二级外形图

输入端　　输出端





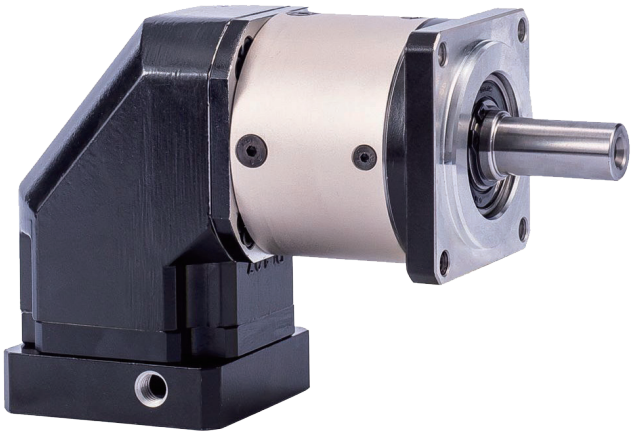
中空输出

注：以上图纸仅为参考，具体以电机图为准

HPFR series planetary reducer

Features

- The planetary boom and output shaft are designed in a one-piece structure to ensure maximum torsional rigidity.
- The planetary gear adopts a full needle roller design to increase the contact area to improve structural rigidity and output torque.
- The gears are carburized and quenched to HRC62 on the surface of mild steel to obtain the best wear resistance and impact toughness.
- The tooth shape is imported from abroad to assist in the design to obtain the best tooth shape and reduce noise.
- The input is connected to the motor shaft by bilateral clamping for maximum clamping force and zero backlash power transfer.
- It adopts a spiral-bevel gear design, which allows high output torque and is more than 30% higher than a straight bevel gear.
- High allowable input speed, more than 8 times higher than straight bevel gear input.
- The meshing tooth print of the spiral-bevel gear is optimally designed, the contact tooth surface load is uniform, and the operating life is long.
- The spiral-bevel gear meshes with optimal motion error analysis and strict process control to ensure high-precision operating backlash.



Model

H — PFR — 090 — 010 — P1 — 马达型号 Motor reference

H	PFR	090	010	P1
品牌 Brand	系列 Model	规格 Size	减速比 Ratio	精度 Precision
	PFR	060	3	
	PLR	080	4	
		090	5	
		115	6	
			7	
			8	
			10	
			15	
			20	
			25	
			35	
			40	
			50	P2≤12arcmin
			60	
			70	
			80	
			100	
			.....	
			200	

Ordering instruction

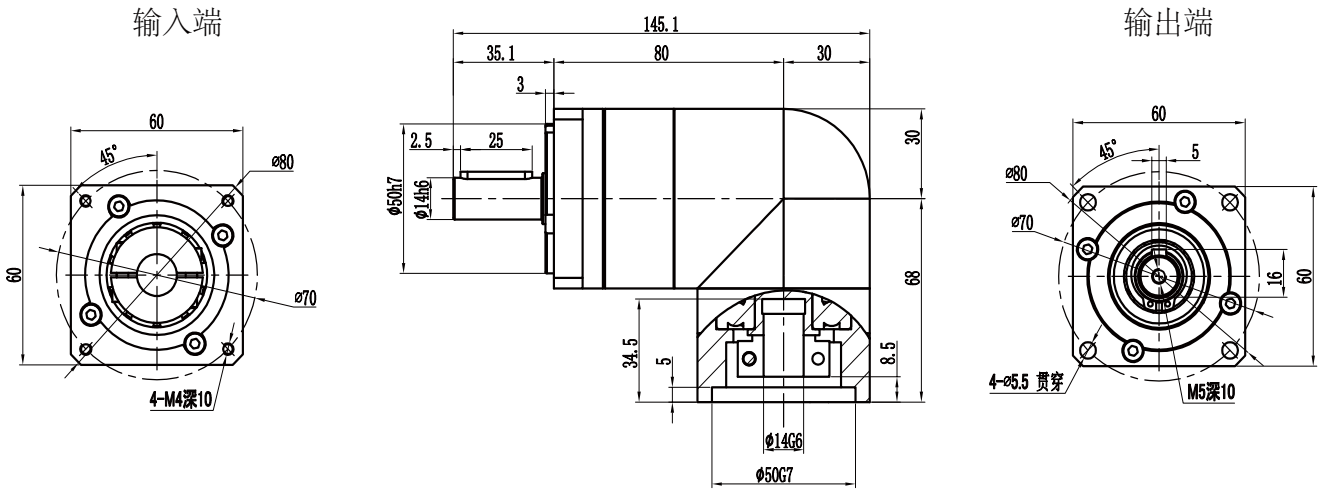
- Type, model and torque
- Speed ratio or R.P.M of output shaft
- Connection type and operating mode
- Quantity, brand and model of installed devices
- Speed ratio & R.P.M of intput shaft
- Motor brand/model of flange/motor shaft sizes

Reducer performance data

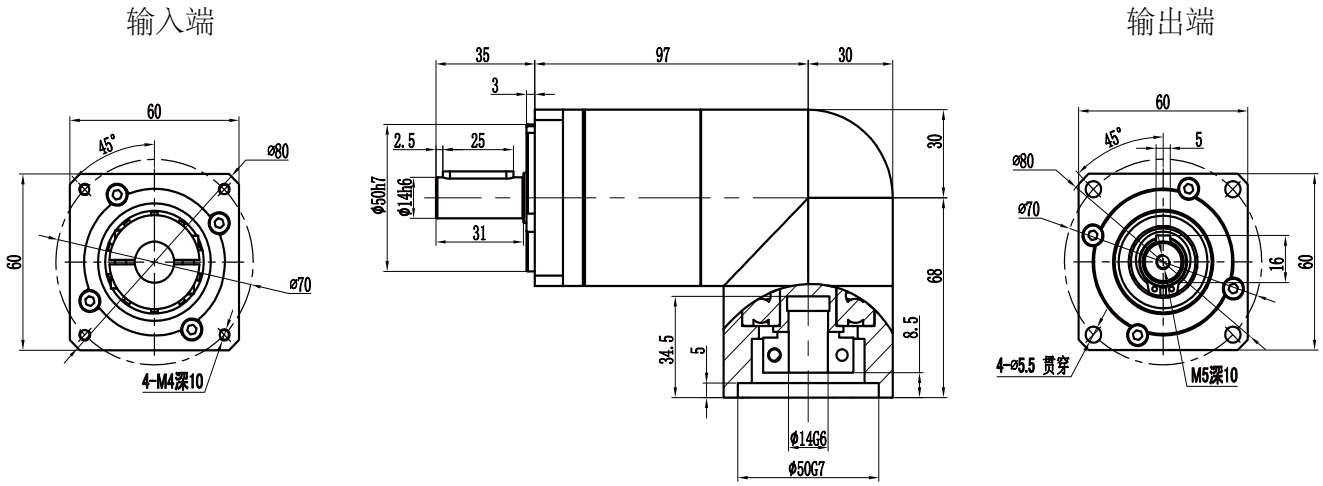
规格 Specification	单位 Unit	节数 Stage	减速比 Ratio	HPFR042	HPFR060	HPFR080	HPFR115	HPFR142
额定输出力矩 Rated output torque T_{2N}	Nm	1	3	8	18	40	125	290
			4	18	36	90	230	460
			5	16	40	110	260	550
			6	8	20	40	90	340
			7	8	20	40	90	340
			8	5	12	22	70	210
			10	5	12	22	70	210
			12	8	20	40	90	340
			14	8	20	40	90	340
			20	5	12	22	70	210
		2	15	16	36	90	125	550
			25	16	36	90	260	550
			30	16	36	90	125	290
			35	16	36	90	260	550
			40	16	36	90	230	460
			48	18	40	110	230	460
			50	16	36	90	260	550
			60	16	36	90	230	340
			70	16	36	90	230	340
			80	16	36	90	230	460
			90	16	–	90	230	290
			100	16	36	90	230	550
			120	8	22	55	125	340
			140	8	22	55	125	340
			160	5	15	50	120	210
			200	5	12	22	70	210
急停扭矩 /Emergency stop torque T_{2NOT}	Nm	1,2	3~200	二倍额定输出力矩 /Double rated output torque				
额定输入转速/Rated input speed n_{1N}	rpm	1,2	3~200	4500	4000	3500	3500	3000
最大输入转速/Maximum output speed n_{1B}	rpm	1,2	3~200	10000	8000	6000	6000	4500
标准背隙 /Standard backlash P2	arcmin	1	3~20	≤22	≤16	≤10	≤10	≤10
		2	15~200	≤26	≤18	≤12	≤12	≤12
扭转刚性 /Torsional rigidity	Nm/arcmin	1,2	3~200	0.65	1.8	4.7	11	35
容许径向力/Allowable radial force F_{2aB}	N	1,2	3~200	165	240	400	1240	3700
容许轴向力/Allowable axial force F_{2aB}	N	1,2	3~200	135	220	420	1000	3500
使用寿命 /Lifespan	hr	1,2	3~200	20000*				
效率 /Efficiency	%	1	3~20	96%				
		2	25~200	94%				
重量 /Weight	kg	1	3~20	0.3	0.85	2	6	11
		2	25~200	0.4	0.9	2.3	7.5	13
使用温度 /Working temperature	℃	1,2	3~200	（-10° C +90° C）				
润滑 /Lubricating				合成润滑脂/Synthetic lubricating grease				
防护等级 /IP Grade		1,2	3~200	IP65				
安装方向 /Installation direction		1,2	3~200	任意方向 /In any direction				
噪音值（n1=3000，无负载） Noise level（n1=3000, off load）	dB(A)	1,2	3~200	≤60	≤60	≤63	≤68	≤75

HPFR060外形图　　14-50-70-M4接口

HPFR060一级外形图



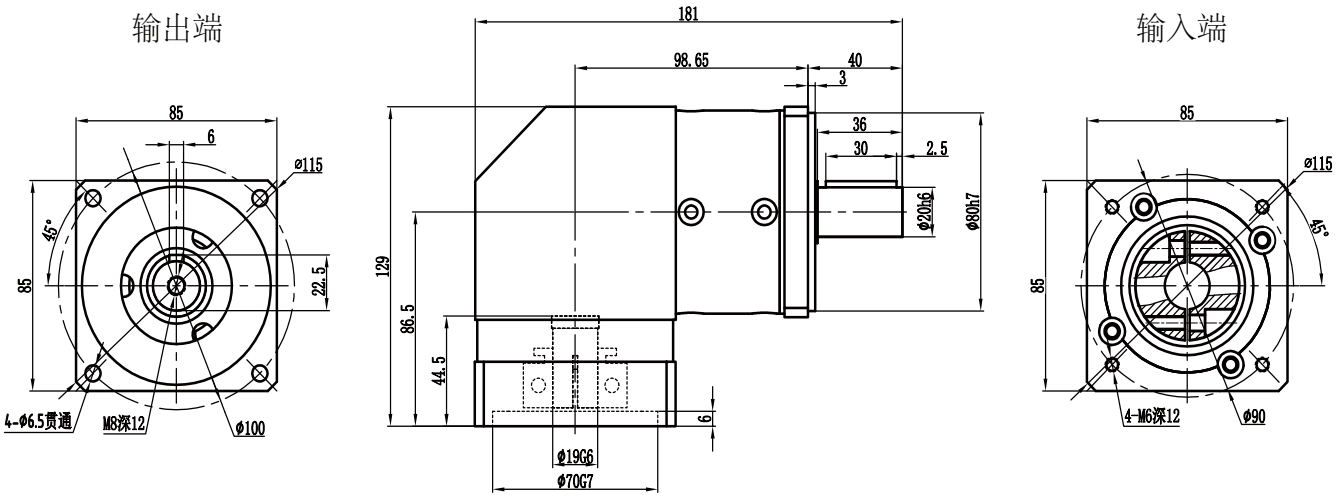
HPFR060二级外形图



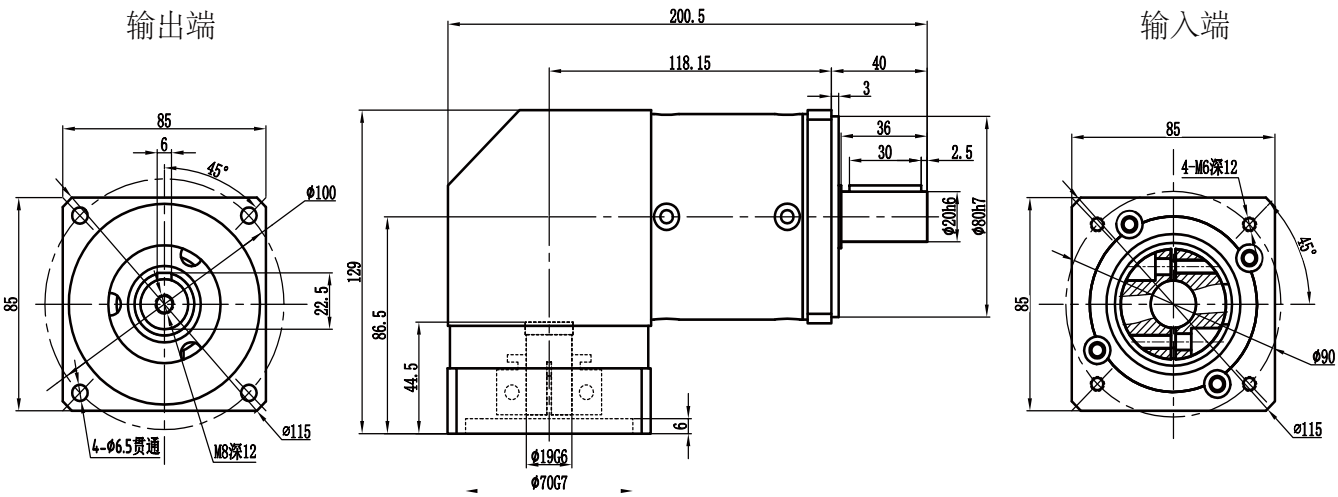
注：以上图纸仅为参考，具体以电机图为准

HPFR080外形图　　19-70-90-M6接口

HPFR080一级外形图



HPFR080二级外形图

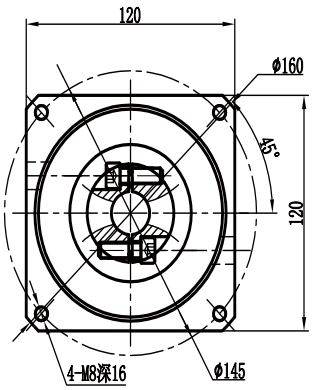


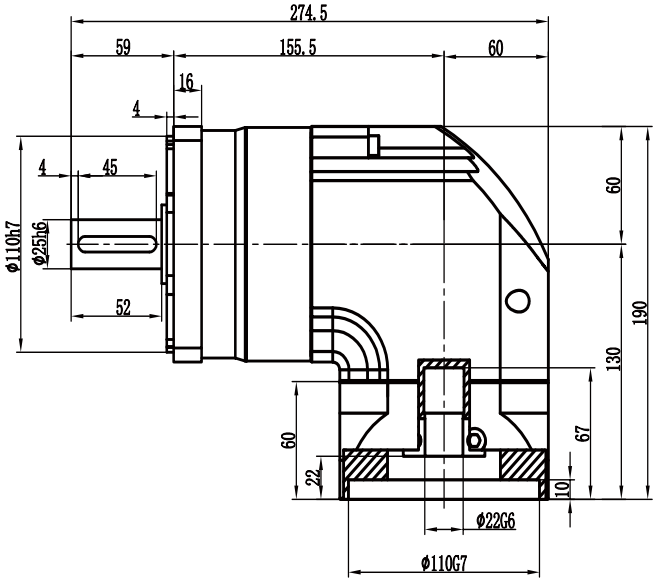
注：以上图纸仅为参考，具体以电机图为准

HPFR115外形图　　22-110-145-M8接口

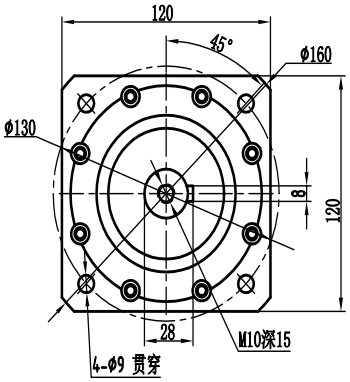
HPFR115一级外形图

输入端



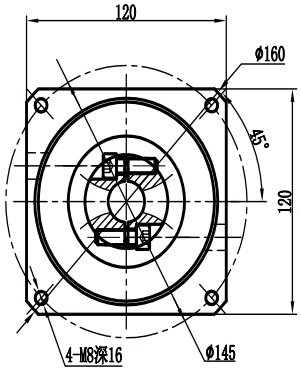


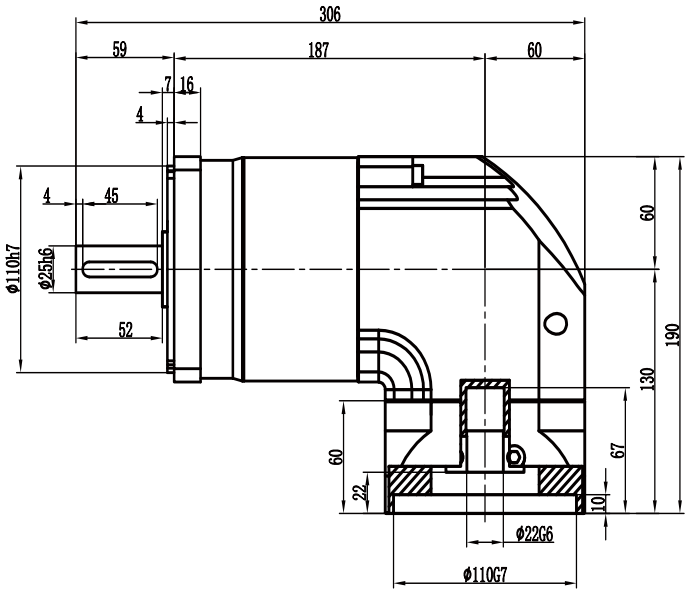
输出端



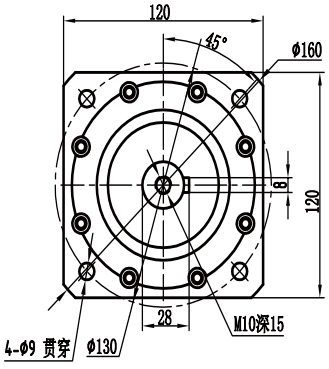
HPFR115二级外形图

输入端





输出端



注：以上图纸仅为参考，具体以电机图为准

Reducer installation method

减速机如由贵司安装，请遵守以下要求。

行星减速机马达安装法兰部的尺寸因伺服马达而异，有可能无法安装指定的伺服马达。（请务必安装订购时所指定的伺服马达。）

伺服马达的输出轴可能涂有防锈剂等。

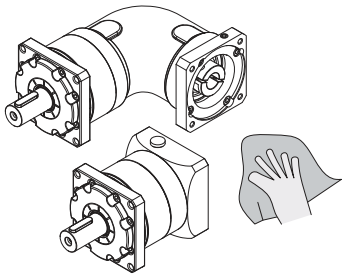
If the Planetary Reducers is installed by your company, please comply with the following requirement.

The size of the motor mounting flange of the planetary reducer differs according to the servo motor, the designated servo motor may not be able to be installed. (Please be sure to install the designated servo motor when purchased.)

There may be rust inhibitor on the output shaft of the servo motor.

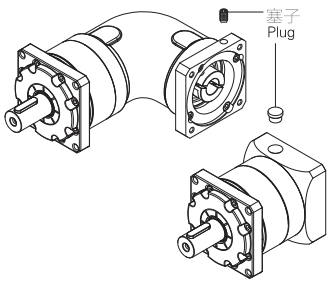
1 将马达轴安装面的防锈剂、油等擦拭干净。

Clean up the rust inhibitor and grease on the installing side of the motor shaft.



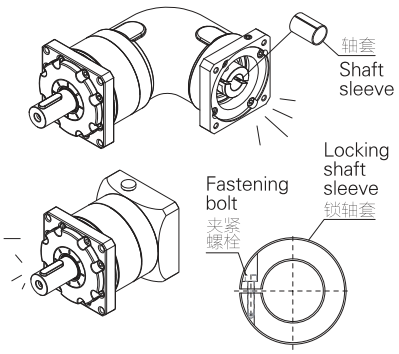
2 取下塞子。

Take off the plug.



3 转动输入轴，使加紧螺栓等头部对准塞孔。此时请确认加紧螺栓处于松弛状态。将减速机垂直放置在平整场所，使减速机的马达安装面朝上。（如有轴套，请按图示进行安装。）

Rotate the input shaft, and align the top of the fastening bolt at the plug hole. Make sure that the fastening bolt is loose at the time. Lay the reducer vertically on the flat place, and face up the installing side of the motor. (If there is a shaft sleeve, please install it as the picture shows.)



4 请将马达轴缓缓地插入输入轴中以免造成撞击，确认马达法兰面与减速机法兰面紧贴。按规定的紧固扭矩紧固马达安装螺栓。（参见表3）

Please insert the motor shaft slowly into the input shaft to avoid impact, and make sure the surfaces of the motor flange and the reducer flange are stick together. Fasten the motor mounting bolt according to the specified fastening torque. (Refer to the Table 3)

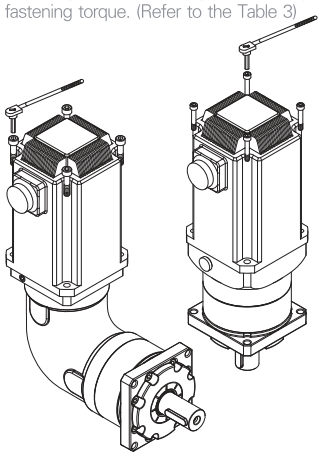


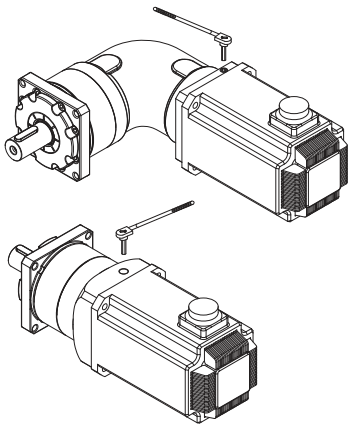
表3 螺栓紧固扭矩

Diagram 3 Bolt fastening torque

螺栓大小 Bolt size		M3	M4	M5	M6	M8	M10	M12	M16
马达安装螺栓 Motor mounting bolt	N・m	1.0	2.5	5.1	8.7	21	42	72	134
	kgf・m	0.11	0.26	0.52	0.89	2.1	4.3	7.3	14
夹紧螺栓 Fastening bolt	N・m	1.9	4.3	8.7	15	36	71	125	–
	kgf・m	0.18	0.44	0.89	1.5	3.7	7.2	13	–

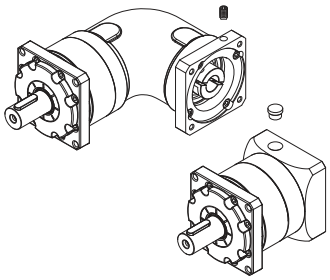
5 使用扭矩扳手等工具，按规定的紧固扭矩紧固输入轴的夹紧螺栓。（参见表3）

Follow the specified fastening torque, and fasten the fastening bolt of the input shaft with the tools such as torque spanner. (Refer to the Table 3)



6 安装塞子，至此作业完成。

Install the plug, and the work is done.



安装与设置

Installation and setting up

- 避免在直接接触雨水的场所使用。（如需在户外或接触粉尘、水滴的场所使用，请事先向我公司咨询。）
- 请设置在0～40℃的环境中。
- 请安装在牢固无振动的台面，用螺栓等切实固定。
  安装时，应保证便于保养和检查。
- Avoid using it in places that are exposed to rain directly. (Please consult to our company first when using it outside or in places exposed to dust and water.)
- Please fit it in the temperature between zero and forty.
- Please install it on the stable and firm surface, and fasten it tightly with bolt.
  During installation, it is necessary to ensure easy maintenance and inspection.

输出轴侧连接

Output shaft connecting

- 在输出法兰型上安装齿轮、皮带轮、链轮等时，请采用带凸缘的安装设计，嵌入输出法兰凸缘部。安装时请注意避免施加过大推力载荷。
- 在输出轴型上安装联轴器、链轮等时，请注意避免向输出轴施加过大推力载荷。嵌入时不得大力敲击输出轴，否则会导致轴承与减速机内部受损。
- 联轴器等部位的轴与键间隙过大会导致烧结，因此安装时请注意。
- 连接时请准确定心。
- When installing gear wheels, belt pulley and chain wheels on the output flange model, please use the installing design with bulged edges, and implant them into it. Avoid applying too much strength when installing.
- When installing couplings, chain wheels on the output shaft, please do not apply too much strength onto it. Do not knock too hard on the output shaft when implanting, or it may cause damages to the axletree and the interior part of the reducer.
- Too much gap between shaft and key in the coupling may cause firing, so please be careful when installing.
- Please be careful when you connect.

安装到输出法兰部（限法兰型）

Install it to the output flange (limited to the flange model)

- 将装置部件等安装到输出法兰部时，请使用扭矩扳手等工具按规定的紧固扭矩进行紧固。
- When installing the device component to the output flange, please follow the specified fastening torque, and use the tools such as torque

螺栓大小 Bolt size		M3	M4	M5	M6	M8	M10	M12	M16	M20
夹紧螺栓 Fastening bolt	N・m	1.9	4.3	8.7	15	36	71	125	310	603
	kgf・m	0.18	0.44	0.89	1.5	3.7	7.2	13	32	62

※ 推荐螺栓强度分类12.9级以上 Recommended Strength level of the bolt is above 12.9

开机前的注意事项

Matters that need attention before shutting down

- 出厂时已按规定量加入润滑油，因此到货后可直接使用。
- 首次运转时，请先确认输出轴的转向，然后逐渐增加负荷。
- The specified amount of lubricant has been added before delivery, so the machine can be used directly when arrived.
- Confirm the rolling direction of the output shaft and increase the load gradually the first time operating.

运转中的注意事项

Matters that need attention during operating

- 请注意不得过载。
- 输出轴的转速不得大于规定转速。
- 出现以下情况时，请停机检查。
  1、温度突然开始升高。
  2、突然发出很大异响。
  3、转速突然开始不稳定。
- 可能的原因如下，请及时处理。
  1、是否处于过载状态?
  2、轴承、齿轮、传动面有无损伤?
  3、机器连接条件有无异常?
- Do not overloaded.
- The rolling speed of the output shaft should not be faster than the specified one.
- Please shut the machine down when following situation shows.
  1、The temperature rise suddenly.
  2、Strange noise are emerged.
  3、The rolling speed becomes unstable.
- The possible reasons are as follows, and please make sure to deal with it in time.
  1、Whether it is overloaded or not?
  2、Are the axletrees, gear wheels and the rolling side damaged?
  3、Is the connecting condition abnormal?

润滑油管理

The lubricant managing

- 油脂不能更换。
- The grease can not be replaced.

每日检查

Daily check

- 运转中减速机外壳温度有无异常上升?（最高不大于90℃）
- 轴承、齿轮等部位有无异响?
- 减速机有无异常振动?（出现此类异常时，请立即停机并联系我公司。）
- 有无润滑油漏油?（出现油脂泄漏时，请联系我公司。）
- Whether the temperature of the reducer shell eises abnormally?(Maximum 90 degree)
- Are there any abnormal conditions on axletrees or chain wheels?
- Is the reducer vibrating abnormally? (If it happens, please shut down the machine and contact our company.)
- Is the lubricant leaking? (If it happens, please contact our company.)

定期检查

Regular check

- 有无过载状态，有无异常旋转?
- 皮带轮、链轮、减速机安装螺栓等有无松动?
- 主要部件的检查与维护。（出现异常现象时，请立即停机并联系我公司。）
- Whether it is overloaded or rolling abnormally?
- Is the belt pulley、chain wheel、the installation bolt of the reducer loose?
- The check and maintenance of main components. (When there is an abnormal phenomenon, please shut down the machine and contact our company.)

Hollow rotating platform

Model

HRTN — 060 — 005 — Motor model

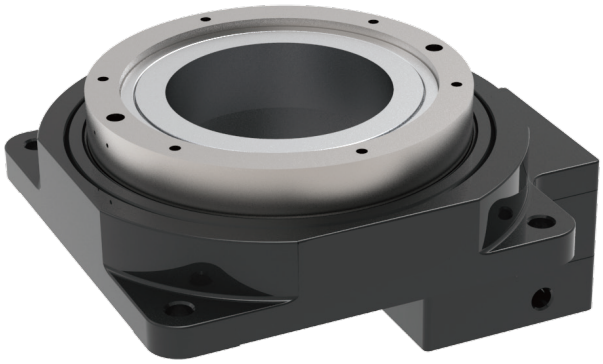
Ratio
5
10
18

Specification
060
085
110
130
170
200
280
450

Series

Ordering instruction

- Model, model and torque
- Reduction ratio or output shaft speed
- Working condition and connection mode
- Quantity and name of machinery installed
- Input mode and speed
- Motor brand, model or size of flange and motor shaft



Features of hollow rotary drives

Integrated input shaft

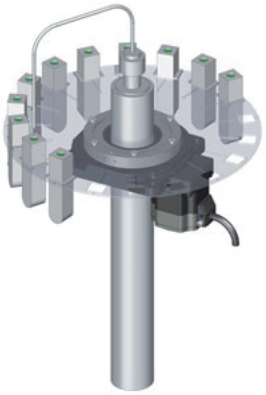
Integrated input shaft, high load-bearing rigidity, no risk of slippage

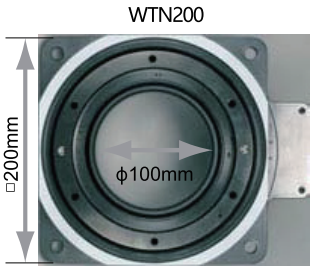


Integrated input shaft, high load-bearing rigidity, no risk of slippage

Large diameter hollow holes (through) can be used in applications such as wiring and piping with complex wiring, making the device design more concise

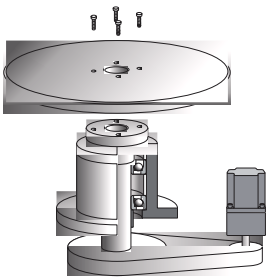
- **The device of the infusion pipe through the mechanism**





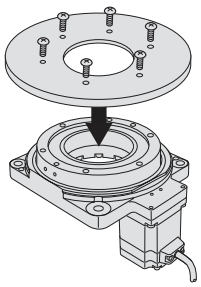
Reduce design hours

The workbench and robotic arm of the device can be mounted directly on the rotating platform. Compared to the use of pulleys and other mechanical parts, it can reduce the man-hours and costs of mechanism design, parts allocation, belt condition adjustment, etc.



Electric motor + mechanism parts

Individual design and procurement



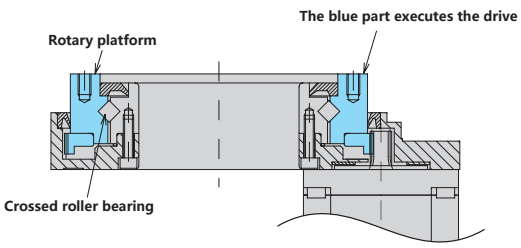
DG II series

Integrated product

Large diameter hollow rotary platform

Model	Dimension mm	Diameter mm
HRTN60	60	φ28
HRTN85	85	φ33
HRTN110	110	φ35
HRTN130	130	φ62
HRTN170	170	φ72
HRTN200	200	φ100
HRTN280	280	φ150
HRTN450	450	φ280

Standard construction



High load, high rigidity

The bearings of the heavy-duty rotating platform are crossed roller bearings

- Max allowable axial load 4000N
- Max allowable moment of inertia 100N·m

[instance]

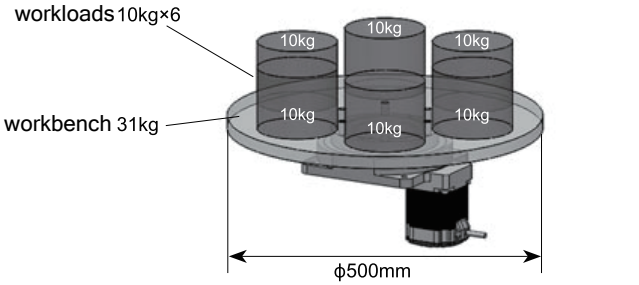
Model : WTN200010

Load 91kg 6 workloads+ workbench
: workloads 10kg×6
: workbench 31kg (diameter 500mm, thickness 20mm, iron)

The distance stretched out : 160mm

Installation direction: horizontal

Total weight 91 kg



- high load

The axial load with a total weight of 91kg is 893N.
(10kg×6个+31kg) ×gm/s²≒893N

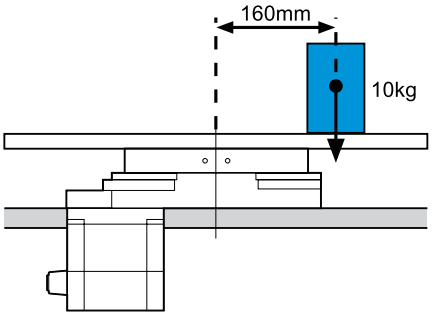
The allowable axial load of the DG200R is 4000N, which is within the allowable value

High load drive

- High rigidity

When there is a 10kg work object 160mm from the center of the table, the moment of inertia is 15.7N·m。10kg×gm/s2×0.16m≒15.7N·m

The allowable moment of inertia of the WTN200 is 100Nm, which is within the allowable value



The highly rigid rotary drive enables smooth driving when loading high loads into the center of the non-table

High output power, high rigidity

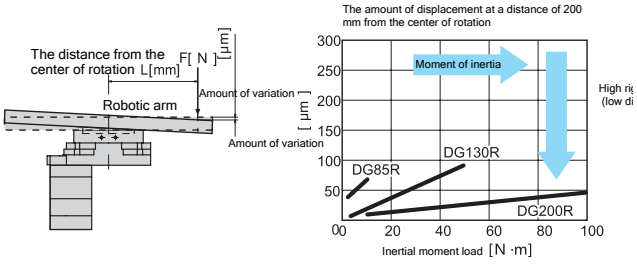
Highly rigid crossed roller bearings are integrated with a holl rotating platform

(Output)

Max allowable torque 50Nm

(Rigidity)

The maximum allowable axial load is 4000N
The maximum allowable moment of inertia is 100Nm
The larger the installation size, the larger the allowable mon inertia load, but the smaller the amount of displacement for t moment of inertia load



High-precision positioning without backlash

- Without backlash
- Repeatable positioning accuracy ±15arcsec (±0.004°)

Please note: Accuracy is a numerical value at a certain lo and temperature (normal temperature).

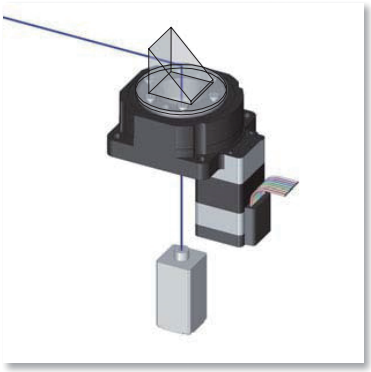
Range of uses

Use of hollow holes

- Device for the penetration of the infusion tube through the mechanism



- Optical use



High rigidity application

- Use for applying moment of inertia load (upside down installation)



Applications that require high-performance motors

- High-precision positioning applications (image inspection devices)



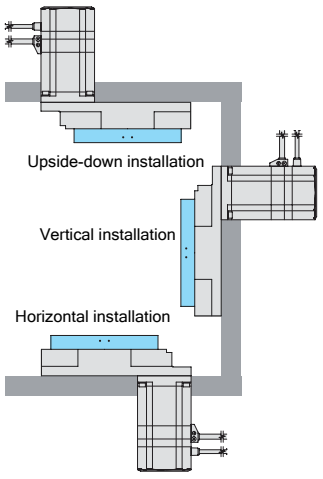
- Applications where load inertia changes (disk manufacturing equipment)



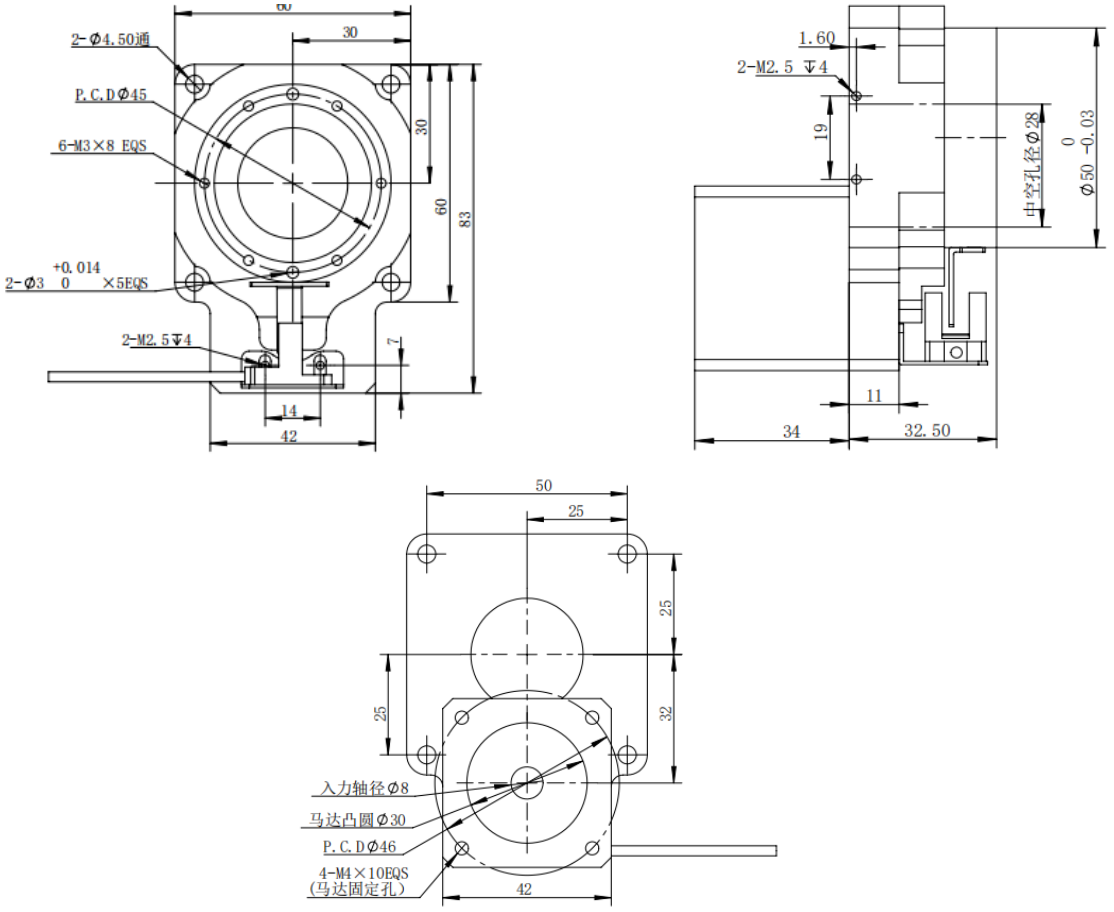
Free mounting orientation

In addition to horizontal installation, vertical installation and upside-down installation are also possible, and the device design has a wide range

Please note: Occasionally a small amount of lubricating oil leaks out of the hollow rotary transmission, if the lubricating oil leaks and causes pollution to the surrounding environment, please check or install a device such as an oil tray during regular inspections

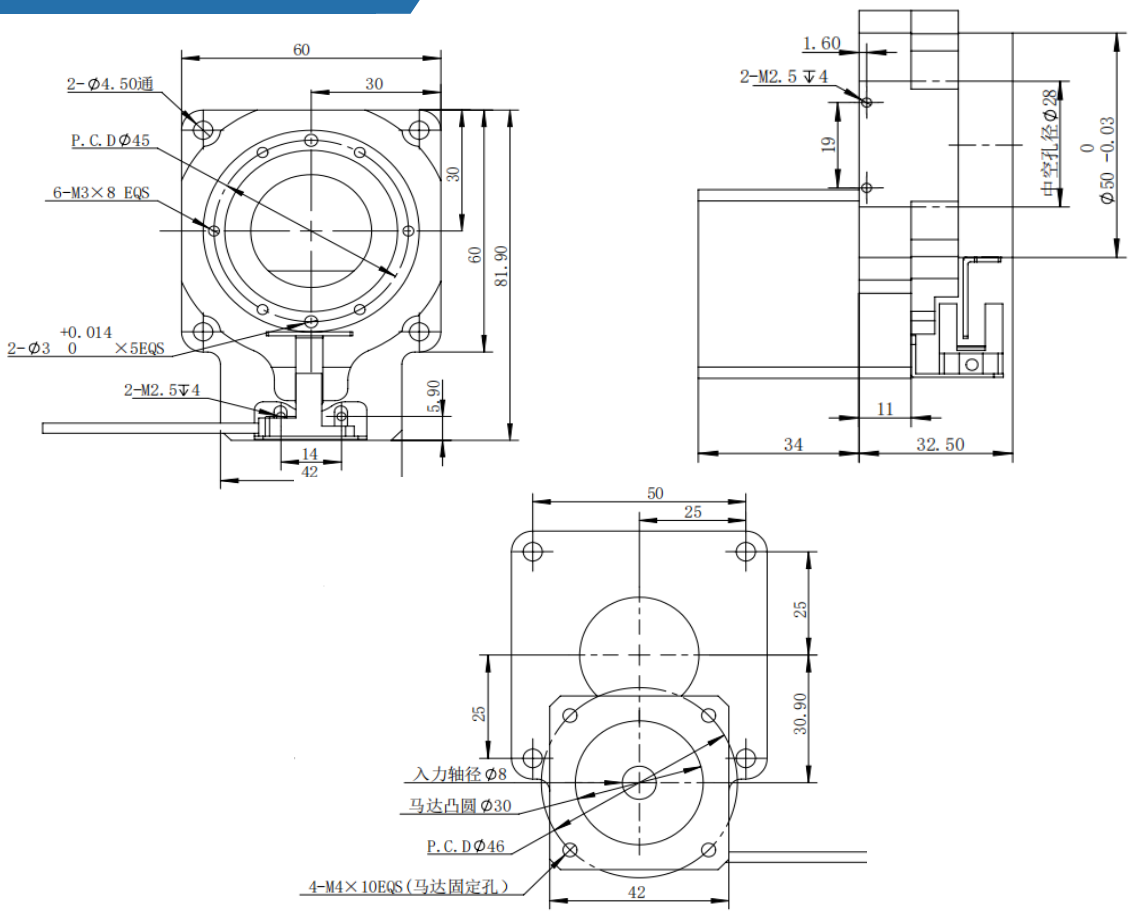


HRTN60-05K



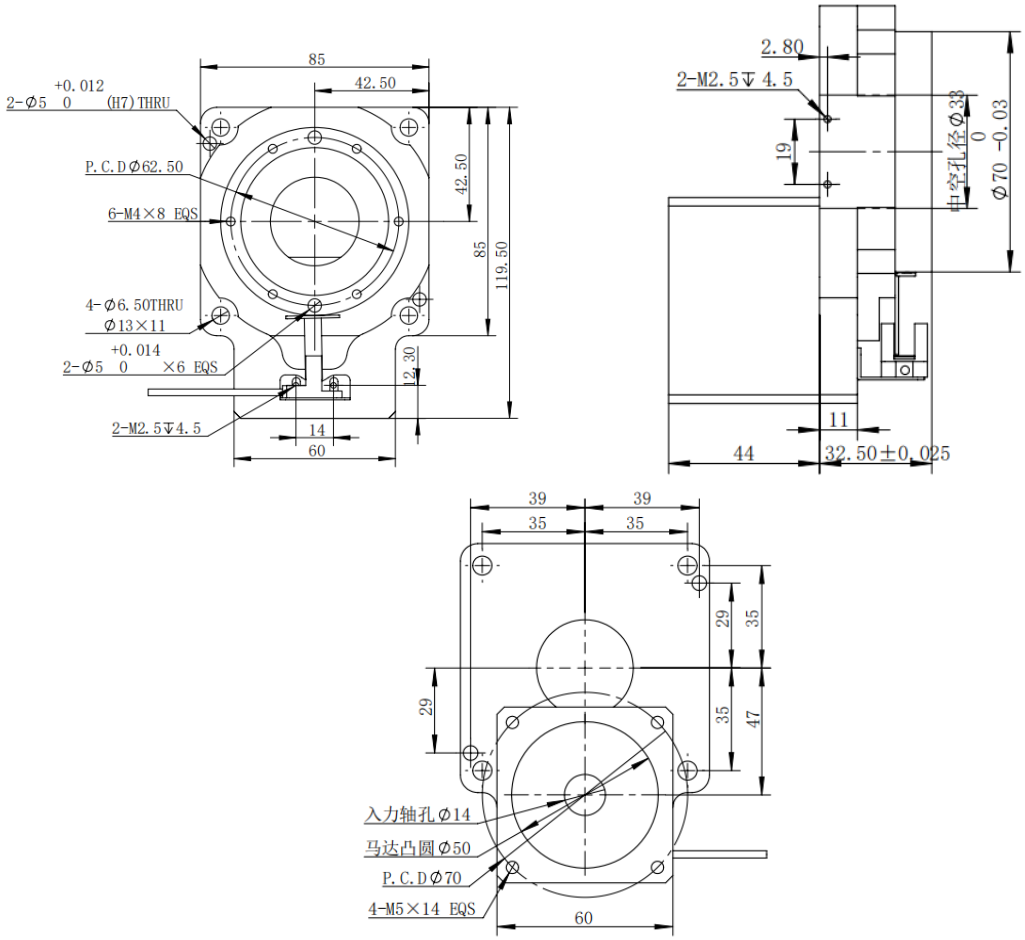
Parameter		
Motor type		50-100W servo motors from various brands (planetary gearboxes can be added)
Rotating platform bearings		Cross Roller Bearing
Allowable torque	N.m	5.2
Allowable rotational speed	rpm	200 (Plate)
Reduction ratio		1:5
Allowable axial load	N	250
Allowable inertia moment load	N.m	5
Positioning accuracy	arcsec	±8
Repeatability	arcsec	±5
Parallelism of rotating platform	mm	±0.005
Concentricity of rotating platform	mm	±0.005
Protection grade	IP	40
Accuracy life	H	10000
Weight	kg	1.2

HRTN60-10K



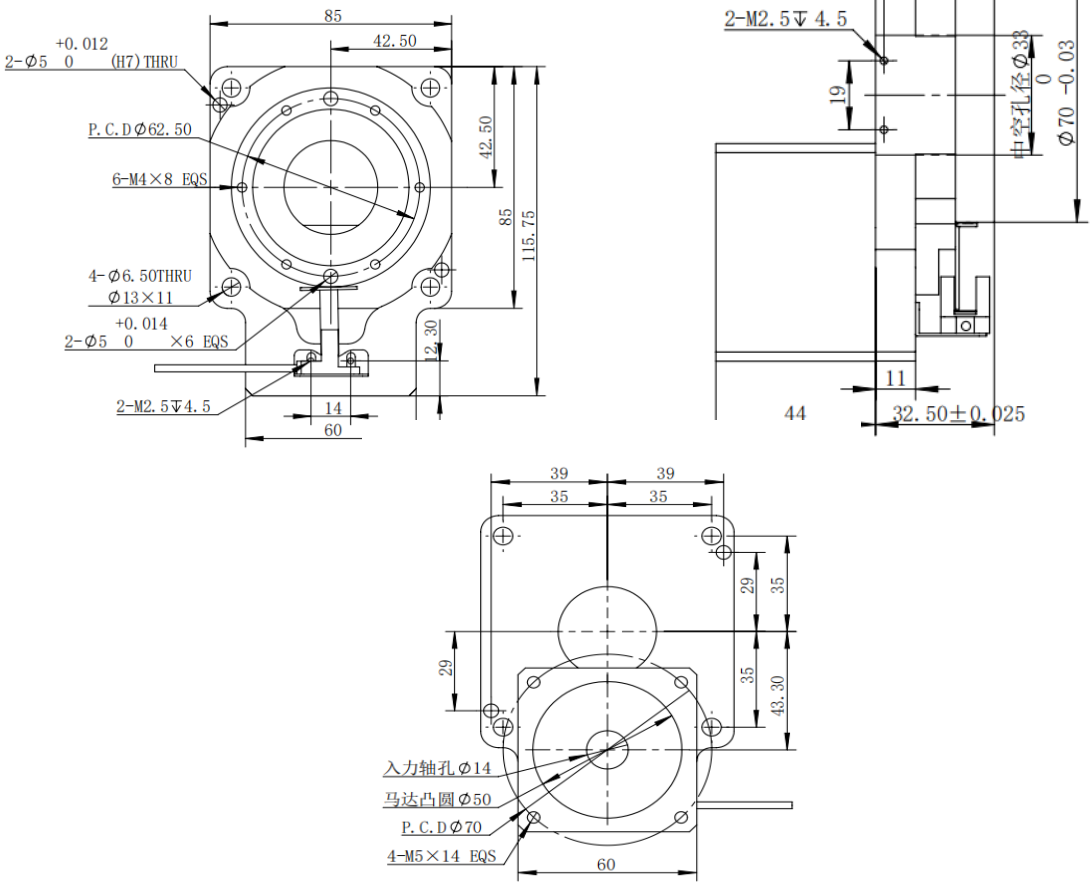
Parameter		
Motor type		50-100W servo motors from various brands (planetary gearboxes can be added)
Rotating platform bearings		Cross Roller Bearing
Allowable torque	N.m	5.2
Allowable rotational speed	rpm	200（Pl）
Reduction ratio		1:10
Allowable axial load	N	250
Allowable inertia moment load	N.m	5
Positioning accuracy	arcsec	±8
Repeatability	arcsec	±5
Parallelism of rotating platform	mm	±0.005
Concentricity of rotating platform	mm	±0.005
Protection grade	IP	40
Accuracy life	H	10000
Weight	kg	1.2

HRTN85-05K



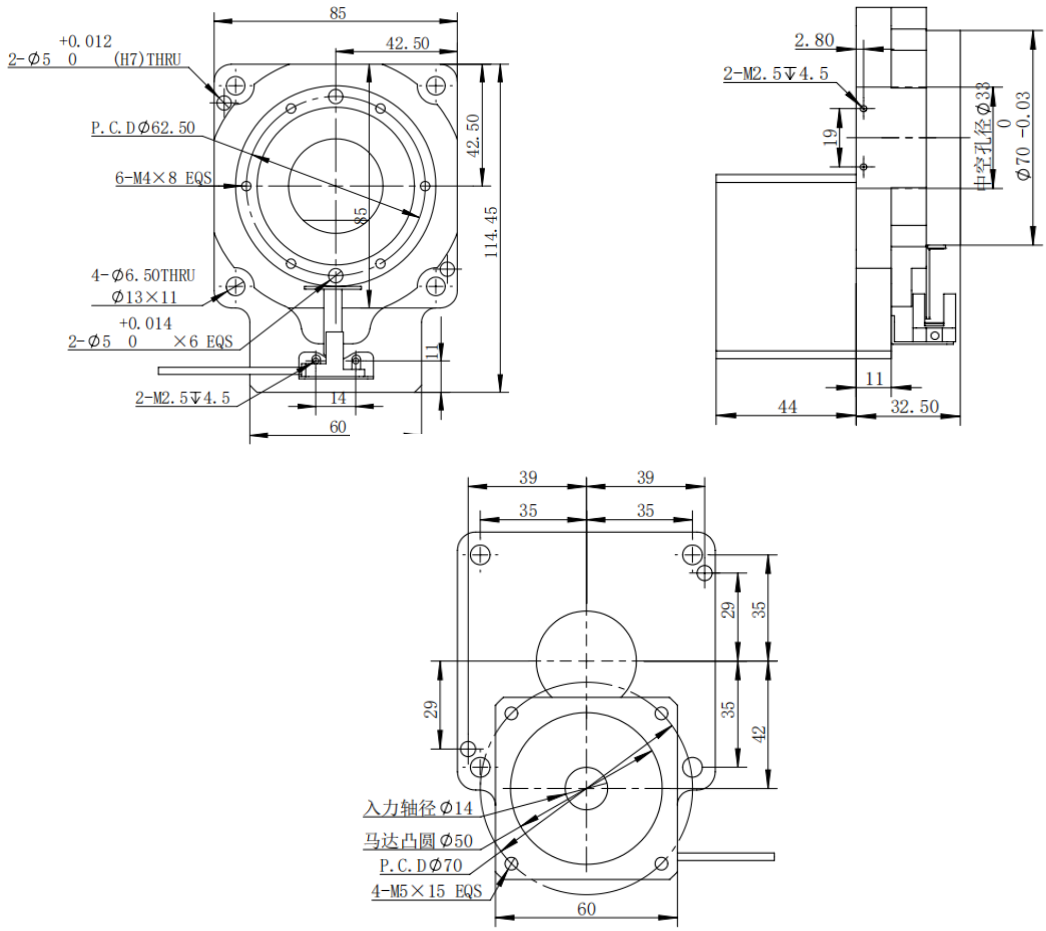
Parameter		
Motor type		200-400W servo motors from various brands
Rotating platform bearings		Cross Roller Bearing
Allowable torque	N.m	8
Allowable rotational speed	rpm	200 (Plate)
Reduction ratio		1:5
Allowable axial load	N	500
Allowable inertia moment load	N.m	10
Positioning accuracy	arcsec	±8
Repeatability	arcsec	±5
Parallelism of rotating platform	mm	±0.005
Concentricity of rotating platform	mm	±0.005
Protection grade	IP	40
Accuracy life	H	10000
Weight	kg	1.8

HRTN85-10K



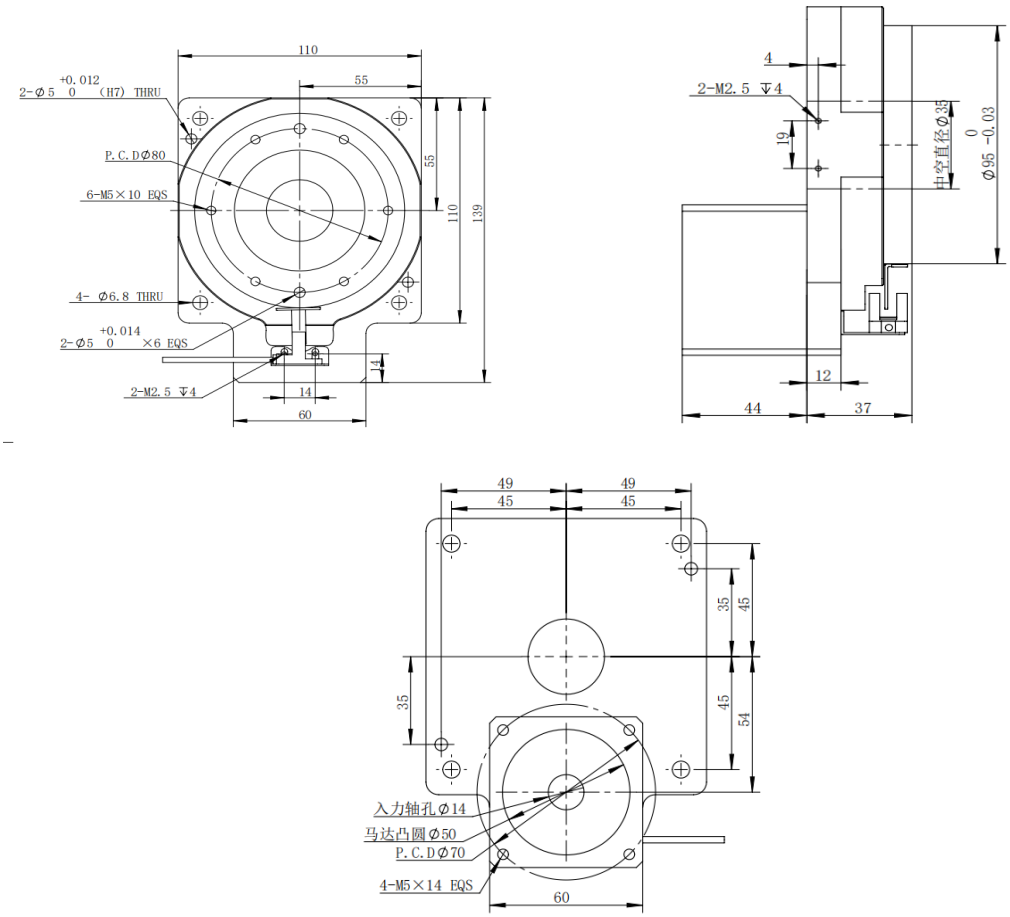
Parameter		
Motor type		200-400W servo motors from various brands
Rotating platform bearings		Cross Roller Bearing
Allowable torque	N.m	8
Allowable rotational speed	rpm	200 (Plate)
Reduction ratio		1:10
Allowable axial load	N	500
Allowable inertia moment load	N.m	10
Positioning accuracy	arcsec	±8
Repeatability	arcsec	±5
Parallelism of rotating platform	mm	±0.005
Concentricity of rotating platform	mm	±0.005
Protection grade	IP	40
Accuracy life	H	10000
Weight	kg	1.8

HRTN85-18K



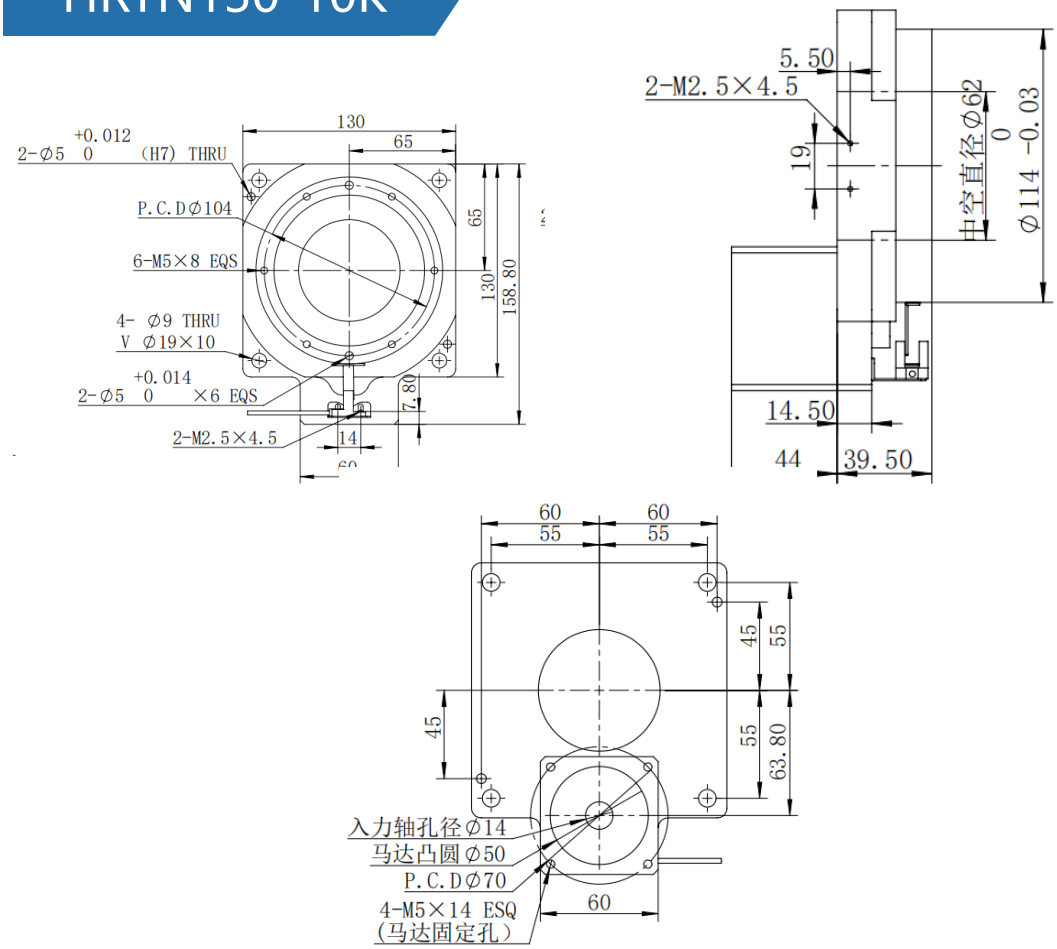
Parameter		
Motor type		200-400W servo motors from various brands
Rotating platform bearings		Cross Roller Bearing
Allowable torque	N.m	8
Allowable rotational speed	rpm	200 (Plate)
Reduction ratio		1:18
Allowable axial load	N	500
Allowable inertia moment load	N.m	10
Positioning accuracy	arcsec	±8
Repeatability	arcsec	±5
Parallelism of rotating platform	mm	±0.005
Concentricity of rotating platform	mm	±0.005
Protection grade	IP	40
Accuracy life	H	10000
Weight	kg	1.8

HRTN110-5K



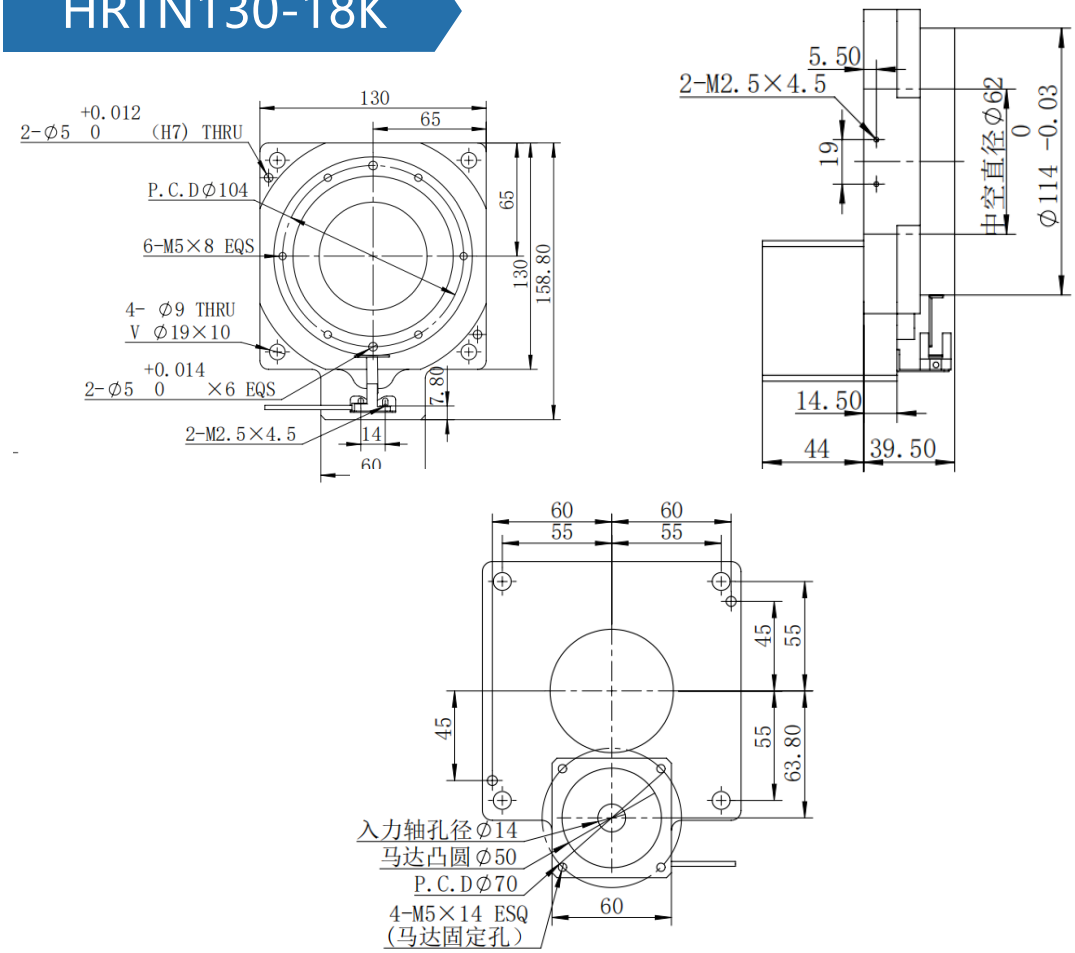
Parameter		
Motor type		200-400W servo motors from various brands
Rotating platform bearings		Cross Roller Bearing
Allowable torque	N.m	20
Allowable rotational speed	rpm	200（Plate）
Reduction ratio		1:5
Allowable axial load	N	1000
Allowable inertia moment load	N.m	25
Positioning accuracy	arcsec	±8
Repeatability	arcsec	±5
Parallelism of rotating platform	mm	±0.005
Concentricity of rotating platform	mm	±0.005
Protection grade	IP	40
Accuracy life	H	10000
Weight	kg	2.6

HRTN130-10K



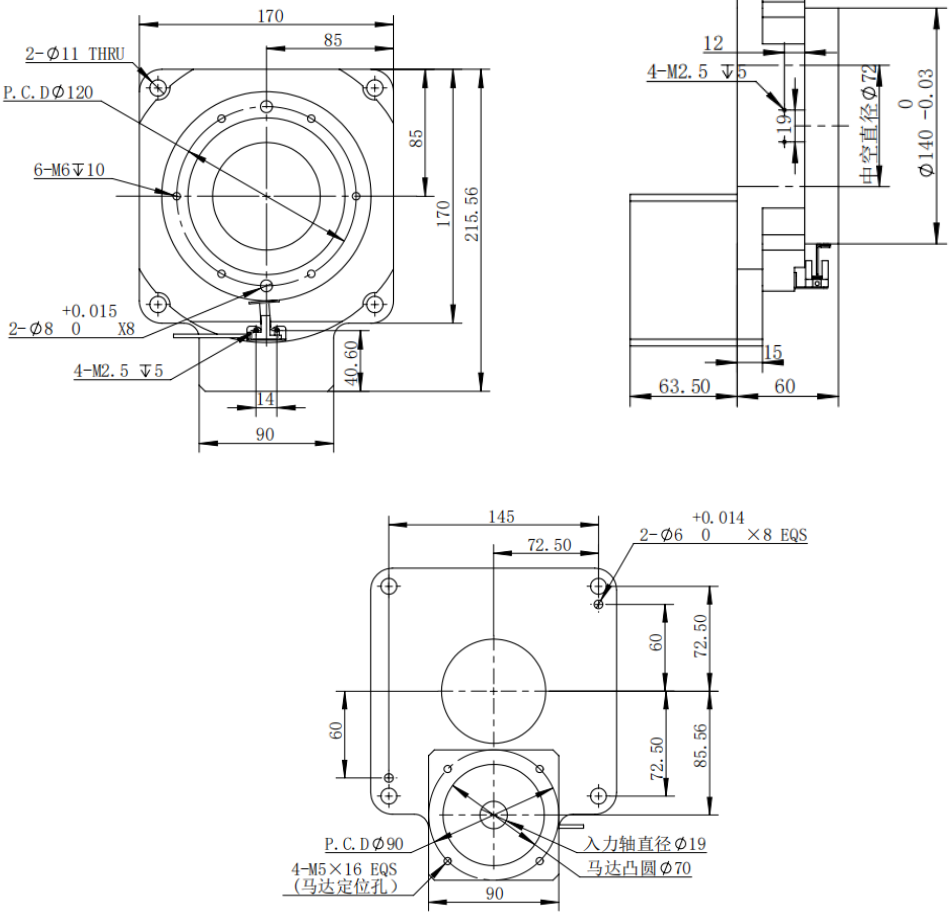
Parameter		
Motor type		200-400W servo motors from various brands
Rotating platform bearings		Cross Roller Bearing
Allowable torque	N.m	32
Allowable rotational speed	rpm	200 (Plate)
Reduction ratio		1:10
Allowable axial load	N	2000
Allowable inertia moment load	N.m	50
Positioning accuracy	arcsec	±8
Repeatability	arcsec	±5
Parallelism of rotating platform	mm	±0.005
Concentricity of rotating platform	mm	±0.005
Protection grade	IP	40
Accuracy life	H	10000
Weight	kg	4

HRTN130-18K



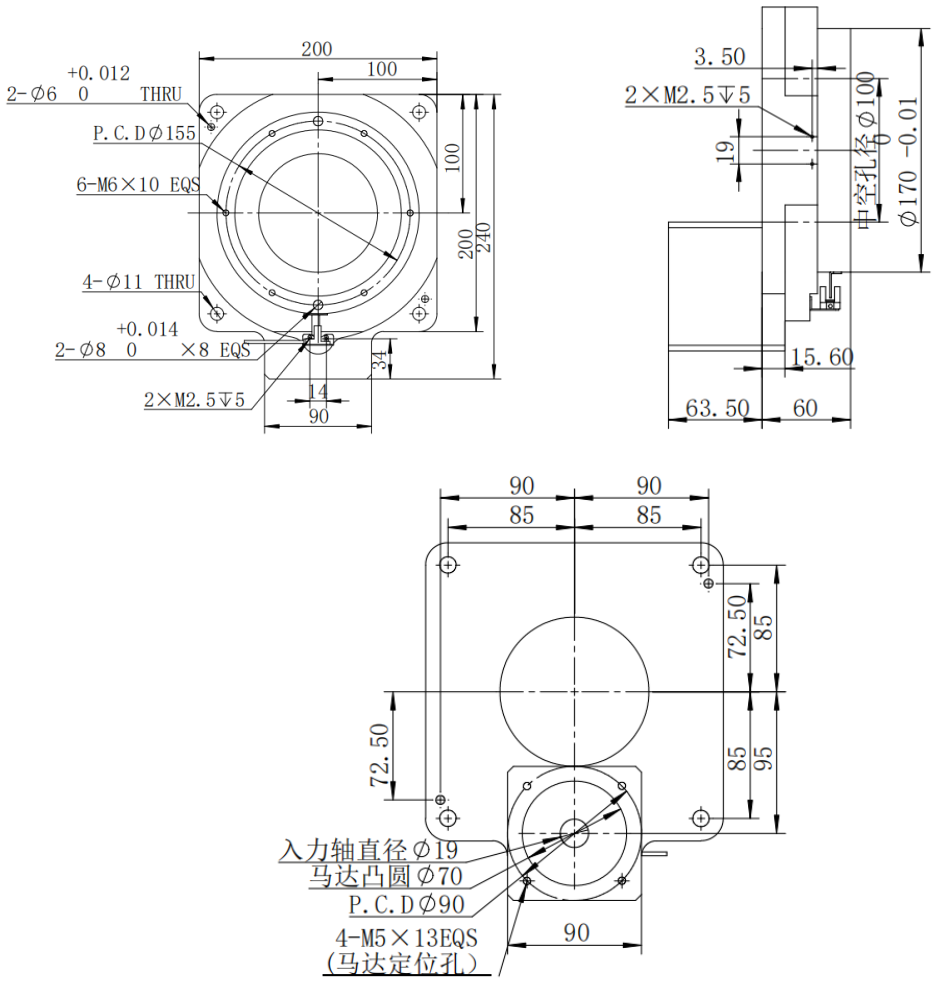
Parameter		
Motor type		200-400W servo motors from various brands
Rotating platform bearings		Cross Roller Bearing
Allowable torque	N.m	20
Allowable rotational speed	rpm	100 (Plate)
Reduction ratio		1:18
Allowable axial load	N	2000
Allowable inertia moment load	N.m	50
Positioning accuracy	arcsec	±8
Repeatability	arcsec	±5
Parallelism of rotating platform	mm	±0.005
Concentricity of rotating platform	mm	±0.005
Protection grade	IP	40
Accuracy life	H	10000
Weight	kg	4

HRTN170-10K



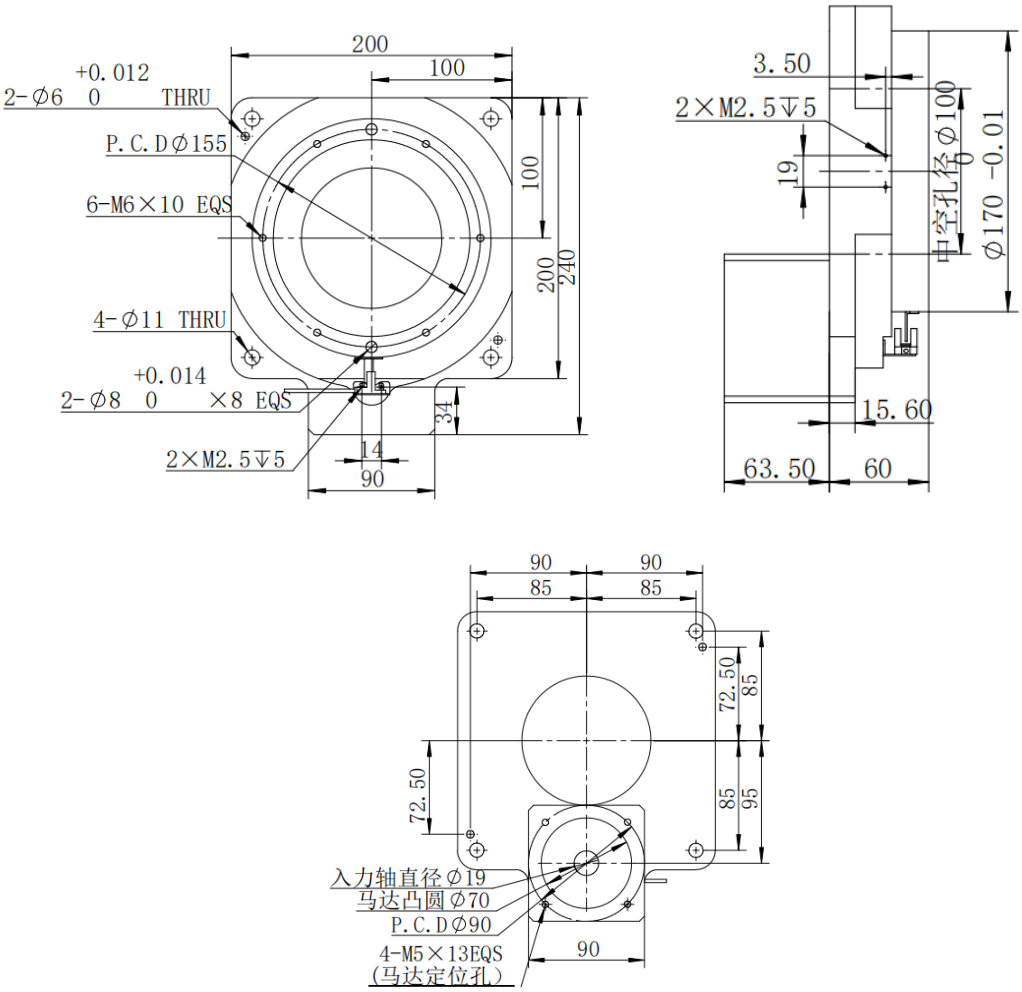
Parameter		
Motor type		750W servo motors from various brands
Rotating platform bearings		Cross Roller Bearing
Allowable torque	N.m	48
Allowable rotational speed	rpm	200 (Plate)
Reduction ratio		1:10
Allowable axial load	N	3000
Allowable inertia moment load	N.m	68
Positioning accuracy	arcsec	±8
Repeatability	arcsec	±5
Parallelism of rotating platform	mm	±0.005
Concentricity of rotating platform	mm	±0.005
Protection grade	IP	40
Accuracy life	H	10000
Weight	kg	10

HRTN200-10K



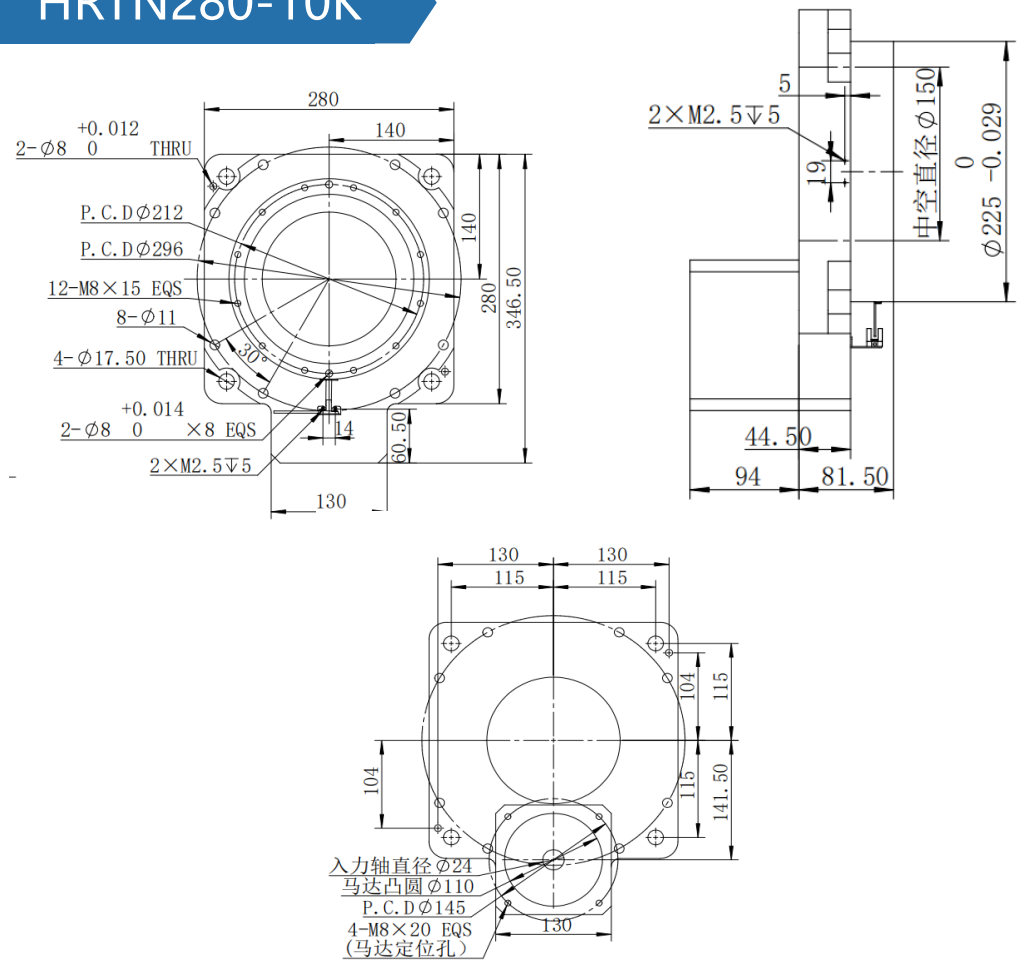
Parameter		
Motor type		750W servo motors from various brands
Rotating platform bearings		Cross Roller Bearing
Allowable torque	N.m	65
Allowable rotational speed	rpm	200（Plate）
Reduction ratio		1:10
Allowable axial load	N	4000
Allowable inertia moment load	N.m	100
Positioning accuracy	arcsec	±8
Repeatability	arcsec	±5
Parallelism of rotating platform	mm	±0.005
Concentricity of rotating platform	mm	±0.005
Protection grade	IP	40
Accuracy life	H	10000
Weight	kg	10

• HRTN200-18K



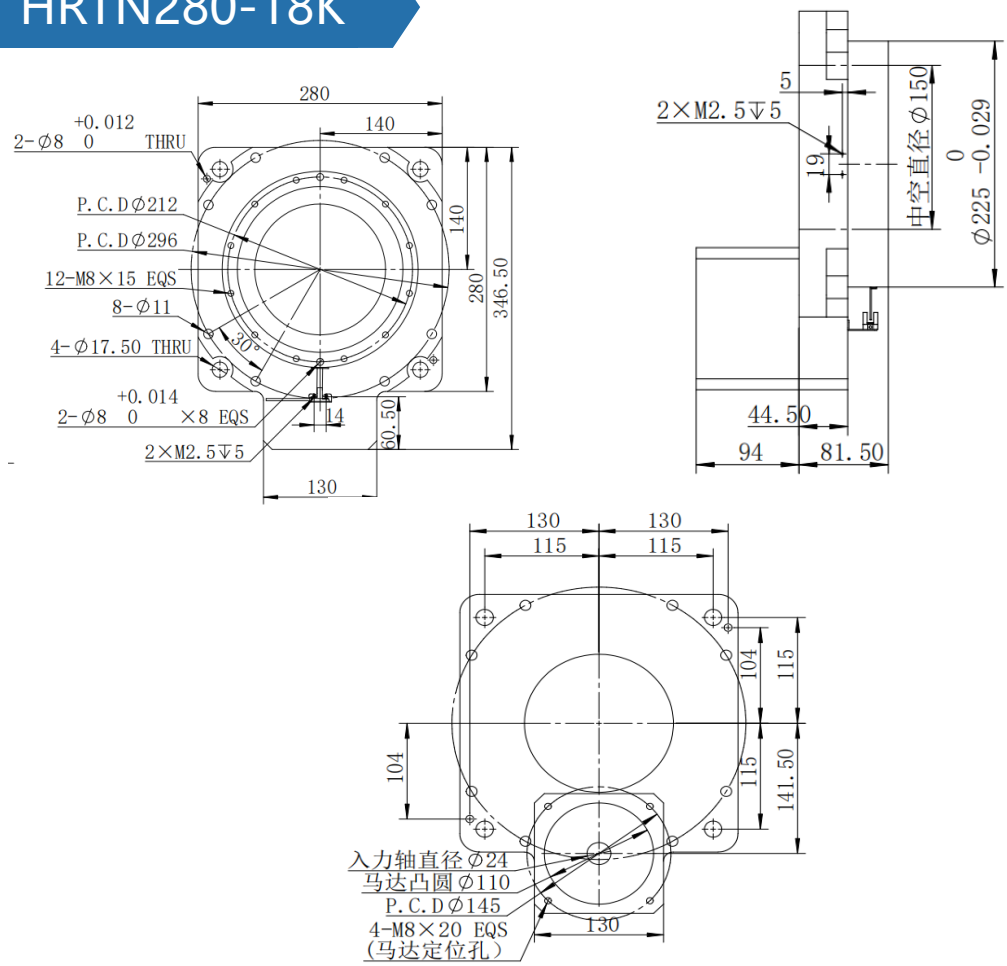
Parameter		
Motor type		750W servo motors from various brands
Rotating platform bearings		Cross Roller Bearing
Allowable torque	N.m	65
Allowable rotational speed	rpm	100 (Plate)
Reduction ratio		1:18
Allowable axial load	N	4000
Allowable inertia moment load	N.m	100
Positioning accuracy	arcsec	±8
Repeatability	arcsec	±5
Parallelism of rotating platform	mm	±0.005
Concentricity of rotating platform	mm	±0.005
Protection grade	IP	40
Accuracy life	H	10000
Weight	kg	10

HRTN280-10K



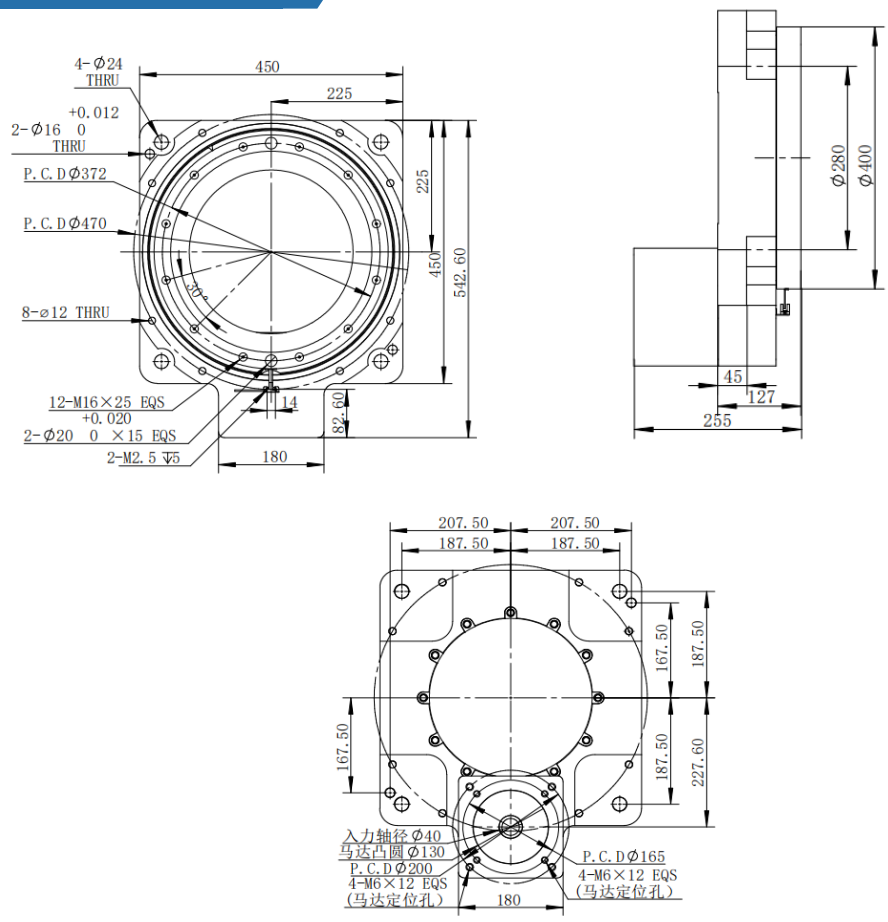
Parameter		
Motor type		1.5KW servo motors from various brands
Rotating platform bearings		Cross Roller Bearing
Allowable torque	N.m	126
Allowable rotational speed	rpm	200（Plate）
Reduction ratio		10
Allowable axial load	N	7000
Allowable inertia moment load	N.m	296
Positioning accuracy	arcsec	±8
Repeatability	arcsec	±5
Parallelism of rotating platform	mm	±0.005
Concentricity of rotating platform	mm	±0.005
Protection grade	IP	40
Accuracy life	H	10000
Weight	kg	19

• HRTN280-18K



Parameter		
Motor type		1.5KW servo motors from various brands
Rotating platform bearings		Cross Roller Bearing
Allowable torque	N.m	226
Allowable rotational speed	rpm	100 (Plate)
Reduction ratio		18
Allowable axial load	N	7000
Allowable inertia moment load	N.m	296
Positioning accuracy	arcsec	±8
Repeatability	arcsec	±5
Parallelism of rotating platform	mm	±0.005
Concentricity of rotating platform	mm	±0.005
Protection grade	IP	40
Accuracy life	H	10000
Weight	kg	19

HRTN450-10K



Parameter		
Motor type		1.5KW servo motors from various brands
Rotating platform bearings		Cross Roller Bearing
Allowable torque	N.m	156
Allowable rotational speed	rpm	200 (Plate)
Reduction ratio		10
Allowable axial load	N	10000
Allowable inertia moment load	N.m	1000
Positioning accuracy	arcsec	±80
Repeatability	arcsec	±15
Parallelism of rotating platform	mm	±0.007
Concentricity of rotating platform	mm	±0.015
Protection grade	IP	40
Accuracy life	H	20000
Weight	kg	80

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Steering gear



減速機的訂購 Purchase of reducers



AT065 – L – 1 – S1

減速機型號： Reducer Mode
AT065, AT075, AT090, AT110, AT140,
AT170, AT210, AT240, AT280

減速比： Reduction Ratio
單節：1, 1.5, 2, 3, 4, 5

減速機型式： Reducer Type
L / L1 / H / C / R1 / LM / RM / 4M

軸型式選擇： Selection of Shaft Type
S1: 平滑直軸 Smooth Straight Shaft
S2: 附鍵直軸 Attached Key Straight Shaft

選用範例 Selection Example：AT065–L–1–S1



AT210 – FL1 – 200 – S1 / MOTOR

減速機型號： Reducer Model
AT065, AT075, AT090, AT110, AT140,
AT170, AT210, AT240, AT280

減速比： Reduction Ratio
單節：1, 1.5, 2, 3, 4, 5
雙節：7, 10, 15, 20, 25, 35, 50
三節：75, 100, 125, 150, 200,
250, 350, 500

馬達型號：Motor Model
馬達製造商及型號
Motor Manufacture & Model

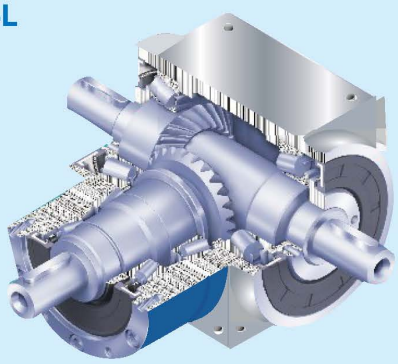
減速機型式：Reducer Types
FL / FLM1 / FLM2 / FL1 / FL1M1 / FL1M2 /
FR1 / FR1M1 / FR1M2 / FH / FHM1 / FHM2 /
FC / FCM1 / FCM2

軸型式選擇：Shaft Type Selection
S1: 平滑直軸 Smooth Straight Shaft
S2: 附鍵直軸 Attached Key Straight Shaft

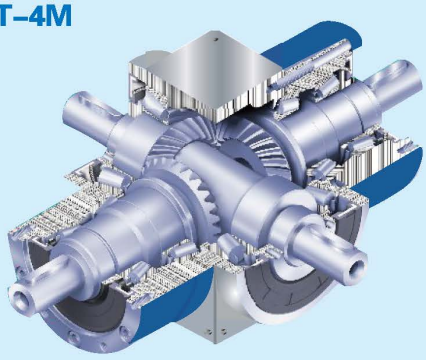
選用範例 Selection Example：AT210–FL1–200–S1 / SIEMENS 1FK6 032–6AK71

AT 雙軸出軸系列 產品特點
Double Output Shaft Series Product Features

AT–L



AT–4M



1. 一體化不銹鋼本體確保最大剛性與耐蝕性，多重精密加工表面易于組裝。
   Integrated stainless steel body ensures maximum rigidity and corrosion resistance. Multiple precision machined surface for easy assembly.
2. 采用頂級蝸綫傘齒輪的設計軟體，經最佳化設計接觸齒面負載均一容許高扭矩輸出，齒輪采高强力滲碳合金鋼，研磨精密度符合 DIN 5 級標準以內。
   The adoption of the top spiral worm gear design software and the optimized design of contact tooth surface make the even load and allow high torque output.Gears are made of high strength carburizing alloy steel and the grinding precision is up to the standard of DIN 5 level .
3. 多重不銹鋼輸出入力軸的設計可以適用于各種工業上應用的需求。
   Multiple stainless steel output and input shaft design can be applied to various of industrial applications needs.
4. 高精密研磨的蝸綫傘齒輪組結合最佳化設計的行星式齒輪組可以達到500:1 的減速比。
   The combination of high–precision grinded worm bevel gear set and the optimized the design of planetary gear set can make the reduction speed up to 500:1.
5. 高扭矩低背隙的精簡結構設計適用于精密伺服的應用。
   High torque and low backlash design of the compact structure is suitable for the application of precision servo.
6. 專利的油封設計，免保養無需更換潤滑油，運轉壽命長。
   Patented oil seal design, maintenance–free without replacing the lubrication oil, long operating life.

重量 Weight

減 速 機 型 Model No.		節 數 Stage	比數[1] Ratio	AT065	AT075	AT090	AT110	AT140	AT170	AT210	AT240	AT280
L 系列 L Series	kg	1	1~5	2.6	4.2	6.8	11.6	19.8	34.8	66.2	98.1	155.7
L1 系列 L1 Series		1	1~5	2.6	4.1	6.7	11.5	19.5	34.2	65.1	96.6	153.4
H 系列 H Series		1	1~5	2.5	3.9	6.4	11.0	18.1	31.6	60.0	89.4	143.4
C 系列 C Series		1	1~5	2.8	4.2	6.9	11.4	19.6	33.7	63.3	97.9	149.1
R1 系列 R1 Series		1	1~5	2.6	4.1	6.7	11.5	19.5	34.2	65.1	96.6	153.4
LM 系列 LM Series		1	1	3.5	5.6	9.0	15.2	24.1	42.4	81.4	122.0	190.9
RM 系列 RM Series		1	1	3.5	5.6	9.0	15.2	24.1	42.4	81.4	122.0	190.9
4M 系列 4M Series		1	1	3.5	5.6	9.1	15.4	24.8	42.6	82.5	123.5	193.3

AT 雙軸出軸系列 產品規格
Double Output Shaft Series Product Specification

減速機性能資料 Files of Reducer Performance

規格 Specification		節數 Stage	比數[1] Ratio[A]	AT065 L AT065 L1 AT065 H AT065 C AT065 R1 AT065 LM AT065 RM AT065 4M	AT075 L AT075 L1 AT075 H AT075 C AT075 R1 AT075 LM AT075 RM AT075 4M	AT090 L AT090 L1 AT090 H AT090 C AT090 R1 AT090 LM AT090 RM AT090 4M	AT110 L AT110 L1 AT110 H AT110 C AT110 R1 AT110 LM AT110 RM AT110 4M	AT140 L AT140 L1 AT140 H AT140 C AT140 R1 AT140 LM AT140 RM AT140 4M	AT170 L AT170 L1 AT170 H AT170 C AT170 R1 AT170 LM AT170 RM AT170 4M	AT210 L AT210 L1 AT210 H AT210 C AT210 R1 AT210 LM AT210 RM AT210 4M	AT240 L AT240 L1 AT240 H AT240 C AT240 R1 AT240 LM AT240 RM AT240 4M	AT280 L AT280 L1 AT280 H AT280 C AT280 R1 AT280 LM AT280 RM AT280 4M
額定輸出力矩 T_{2N} Rated Output Torque	Nm	1	1	25	45	78	150	360	585	1,300	2,150	3,200
			1.5	25	45	78	150	360	585	1,300	2,150	3.200
			2	24	42	68	150	330	544	1,220	2,010	3,050
			3	18	33	54	120	270	450	1,020	1,650	2,850
			4	13	28	48	100	224	376	860	1,410	2,300
			5	12	25	40	85	196	320	740	1,210	2,000
最大加速力矩 T_{2B} Max.	Nm	1	1~5	1.5倍額定輸出力矩 1.5 Times of Rated Output Torque								
最大加速輸入轉速 n_{1B} Max.	rpm	1	1~5	7,500	6,500	5,500	4,500	3,500	3,000	2,200	2,000	1,700
背隙* Backlash	arcmin	1	1~5	≤6	≤6	≤6	≤6	≤6	≤6	≤6	≤6	≤6
容許徑向力 F_{1rB}[2] Radial 輸入軸d1 Input d1	N	1	1~5	700	950	1,450	2,100	2,700	3,800	7,800	9,600	10,500
容許徑向力 F_{2rB}[3] Radial 輸出軸d2 Output d2	N	1	1~5	900	1,100	1,700	2,700	4,800	6,600	11,500	16,000	18,000
容許軸向力 F_{1aB}[2] Axial 輸入軸d1 Input d1	N	1	1~5	350	425	725	1,050	1,350	1,900	3,900	4,800	5,250
容許軸向力 F_{2aB}[3] Axial 輸出軸d2 Output d2	N	1	1~5	450	550	850	1,350	2,400	3,300	5,750	8,500	9,000
使用壽命 Service Life	hr	1	1~5	20,000*								
效率η Efficiency	%	1	1~5	≥98%								
使用溫度 Operating Temp	°C	1	1~5	-10°C ~ 90°C								
潤滑 Lubrication				合成潤滑油 Fully Synthetic Grease								
噪音值 (n_1=1500rpm，無負載)	dB(A)	1	1~5	≤68	≤70	≤74	≤76	≤77	≤78	≤80	≤82	≤83

1. 減速比 ($i=N_{in}/N_{out}$)
2.作用於輸入軸中心位置 @ n_{1B}
3. 作用於輸出軸中心位置 @ n_{1B}
* 連續運轉降低使用壽命二分之一。
＊背隙值為在 2% 額定力矩 T_{2N} 的扭力下所測得
AT-LM / RM / 4M 只提供 1 : 1 比數

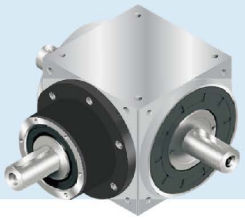
減速機轉動慣量 Rotary Inertia of Reducer

規格 Specification		節數 Stage	比數[1] Ratio[A]	AT065 L AT065 L1 AT065 H AT065 C AT065 R1 AT065 LM AT065 RM AT065 4M	AT075 L AT075 L1 AT075 H AT075 C AT075 R1 AT075 LM AT075 RM AT075 4M	AT090 L AT090 L1 AT090 H AT090 C AT090 R1 AT090 LM AT090 RM AT090 4M	AT110 L AT110 L1 AT110 H AT110 C AT110 R1 AT110 LM AT110 RM AT110 4M	AT140 L AT140 L1 AT140 H AT140 C AT140 R1 AT140 LM AT140 RM AT140 4M	AT170 L AT170 L1 AT170 H AT170 C AT170 R1 AT170 LM AT170 RM AT170 4M	AT210 L AT210 L1 AT210 H AT210 C AT210 R1 AT210 LM AT210 RM AT210 4M	AT240 L AT240 L1 AT240 H AT240 C AT240 R1 AT240 LM AT240 RM AT240 4M	AT280 L AT280 L1 AT280 H AT280 C AT280 R1 AT280 LM AT280 RM AT280 4M
轉動慣量 J_1 Rotary Inertia	$kg \cdot cm^2$	1	1	0.51	1.30	3.16	7.70	23.57	58.99	195.40	369.34	799.12
			1.5	0.64	1.16	2.82	6.74	19.37	49.28	155.45	283.58	595.78
			2	0.44	1.11	2.70	6.31	17.75	45.35	140.24	249.74	511.76
			3	0.43	1.09	2.66	6.17	17.18	44.01	134.95	237.71	483.06
			4	0.43	1.09	2.65	6.13	17.06	43.70	133.58	234.72	476.26
			5	0.43	1.09	2.65	6.12	17.02	43.60	133.14	233.67	473.58

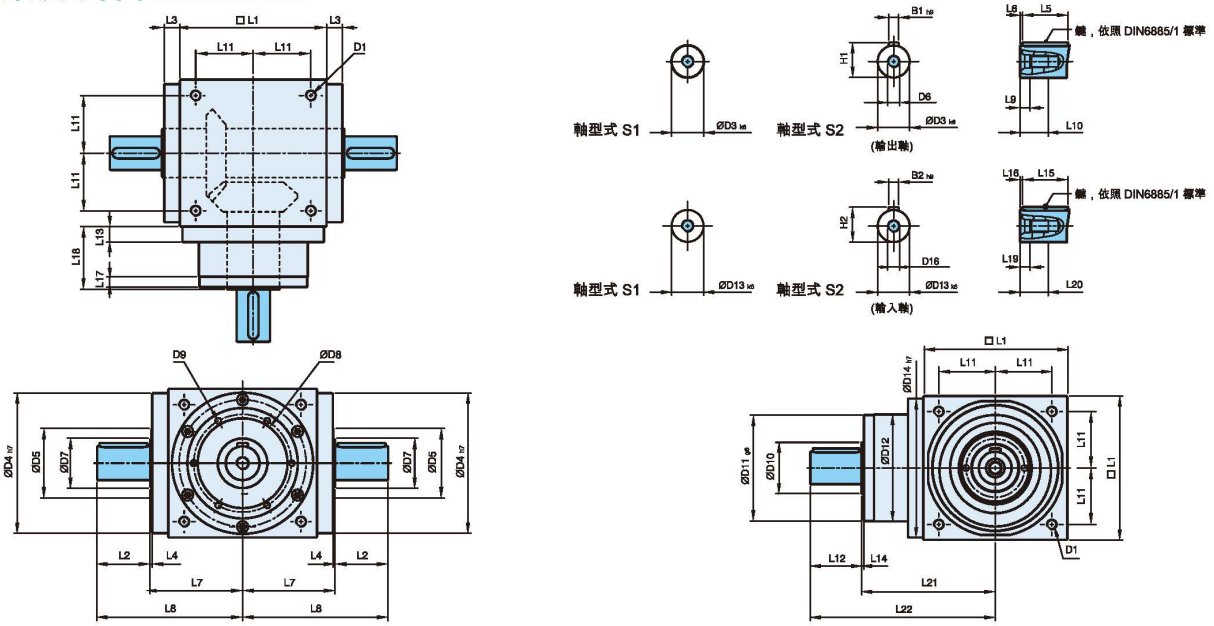
AT-L系列雙軸出軸型式

Double Output Shaft Type

尺寸（單節 1-stage，減速比ratio i=1~5）



外形尺寸圖 Dimensions:



規格表 Specifications:

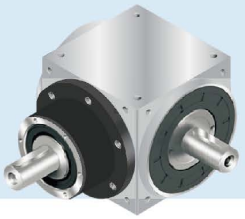
Unit: mm

尺寸 Sizes	AT065 L	AT075 L	AT090 L	AT110 L	AT140 L	AT170 L	AT210 L	AT240 L	AT280 L
D1	M4	M6	M6	M8	M10	M12	M16	M16	M16
D3 k6	13	16	18	22	32	40	50	55	60
D4 h7	63	73	88	108	135	165	205	235	275
D5	31	35	43	53	68	83	104	124	144
D6	M4	M5	M5	M8	M12	M16	M16	M16	M20
D7	21	22	28	33	47	55	75	85	110
D8	53	62	76	95	92	114	142	160	176
D9	4xM4xL7	4xM5xL8	4xM5xL8	6xM6xL10	6xM6xL10	6xM8xL12.5	6xM8xL12.5	6xM8xL12.5	6xM10xL15
D10	15.4	20.4	25.8	35.8	49.8	59.3	79.3	92.3	102.3
D11 g6	62.9	72.9	87	107	103	127	158	178	198
D12	62	72	86	106	104	128	160	180	200
D13 k6	13	16	18	22	32	40	50	55	60
D14 h7	63	73	88	108	135	165	205	235	275
D16	M4	M5	M5	M8	M12	M16	M16	M16	M20
L1	65	75	90	110	140	170	210	240	280
L2	19.5	30	35	40	50	60	75	85	110
L3	13	14.5	15	15	15	15	20	25	25
L4	2	2	2	2	2	2	2	2	2
L5	16	25	28	32	45	50	70	80	100
L6	2	2.5	3.5	4	2.5	5	2.5	2.5	5
L7	47.5	54	62	72	87	102	127	147	167
L8	67	84	97	112	137	162	202	232	277
L9	4.5	4.8	4.8	7.2	10	12	12	12	15
L10	10	12.5	12.5	19	28	36	36	36	42
L11	27	30	36	44	55	67	85	95	110
L12	19.5	30	35	40	50	60	75	85	110
L13	13	15	15	15	15	15	20	25	25
L14	2	2	2	2	2	2	2	2	2
L15	16	25	28	32	45	50	70	80	100
L16	2	2.5	3.5	4	2.5	5	2.5	2.5	5
L17	6	8	8	8	10	10	10	10	10
L18	43	52.5	55	60	60	70	90	105	120
L19	4.5	4.8	4.8	7.2	10	12	12	12	15
L20	10	12.5	12.5	19	28	36	36	36	42
L21	75.5	90	100	115	130	155	195	225	260
L22	95	120	135	155	180	215	270	310	370
B1 h9	5	5	6	6	10	12	14	16	18
B2 h9	5	5	6	6	10	12	14	16	18
H1	15	18	20.5	24.5	35	43	53.5	59	64
H2	15	18	20.5	24.5	35	43	53.5	59	64

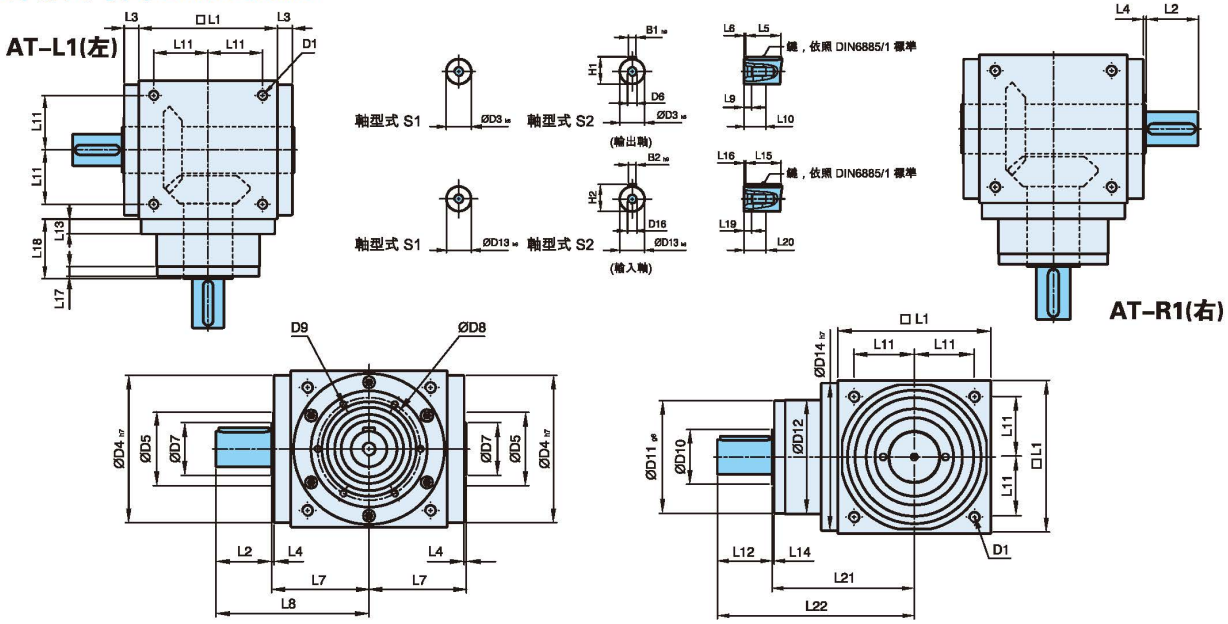
AT-L1（左）/AT-R1(右)系列

單邊出軸型式 Single-side Output Shaft Type

尺寸（單節 1-stage，減速比ratio i=1~5）



外形尺寸圖 Dimensions:



規格表 Specifications:

Unit: mm

尺寸 Sizes	AT065 L1/R1	AT075 L1/R1	AT090 L1/R1	AT110 L1/R1	AT140 L1/R1	AT170 L1/R1	AT210 L1/R1	AT240 L1/R1	AT280 L1/R1
D1	M4	M6	M6	M8	M10	M12	M16	M16	M16
D3 k6	13	16	18	22	32	40	50	55	60
D4 h7	63	73	88	108	135	165	205	235	275
D5	31	35	43	53	68	83	104	124	144
D6	M4	M5	M5	M8	M12	M16	M16	M16	M20
D7	21	22	28	33	47	55	75	85	110
D8	53	62	76	95	92	114	142	160	176
D9	4xM4xL7	4xM5xL8	4xM5xL8	6xM6xL10	6xM6xL10	6xM8xL12.5	6xM8xL12.5	6xM8xL12.5	6xM10xL15
D10	15.4	20.4	25.8	35.8	49.8	59.3	79.3	92.3	102.3
D11 g6	62.9	72.9	87	107	103	127	158	178	198
D12	62	72	86	106	104	128	160	180	200
D13 k6	13	16	18	22	32	40	50	55	60
D14 h7	63	73	88	108	135	165	205	235	275
D16	M4	M5	M5	M8	M12	M16	M16	M16	M20
L1	65	75	90	110	140	170	210	240	280
L2	19.5	30	35	40	50	60	75	85	110
L3	13	14.5	15	15	15	15	20	25	25
L4	2	2	2	2	2	2	2	2	2
L5	16	25	28	32	45	50	70	80	100
L6	2	2.5	3.5	4	2.5	5	2.5	2.5	5
L7	47.5	54	62	72	87	102	127	147	167
L8	67	84	97	112	137	162	202	232	277
L9	4.5	4.8	4.8	7.2	10	12	12	12	15
L10	10	12.5	12.5	19	28	36	36	36	42
L11	27	30	36	44	55	67	85	95	110
L12	19.5	30	35	40	50	60	75	85	110
L13	13	15	15	15	15	15	20	25	25
L14	2	2	2	2	2	2	2	2	2
L15	16	25	28	32	45	50	70	80	100
L16	2	2.5	3.5	4	2.5	5	2.5	2.5	5
L17	6	8	8	8	10	10	10	10	10
L18	43	52.5	55	60	60	70	90	105	120
L19	4.5	4.8	4.8	7.2	10	12	12	12	15
L20	10	12.5	12.5	19	28	36	36	36	42
L21	75.5	90	100	115	130	155	195	225	260
L22	95	120	135	155	180	215	270	310	370
B1 h9	5	5	6	6	10	12	14	16	18
B2 h9	5	5	6	6	10	12	14	16	18
H1	15	18	20.5	24.5	35	43	53.5	59	64
H2	15	18	20.5	24.5	35	43	53.5	59	64

AT-F 輸入法蘭型系列

Input Flange series 產品規格

減速機性能資料 Performance Files Reducer



規格 Specification		節數 Stages	比數[1] Ratio	AT065 FL AT065 FL1 AT065 FH AT065 FC AT065 FR1	AT075 FL AT075 FL1 AT075 FH AT075 FC AT075 FR1	AT090 FL AT090 FL1 AT090 FH AT090 FC AT090 FR1	AT110 FL AT110 FL1 AT110 FH AT110 FC AT110 FR1	AT140 FL AT140 FL1 AT140 FH AT140 FC AT140 FR1	AT170 FL AT170 FL1 AT170 FH AT170 FC AT170 FR1	AT210 FL AT210 FL1 AT210 FH AT210 FC AT210 FR1	AT240 FL AT240 FL1 AT240 FH AT240 FC AT240 FR1	AT280 FL AT280 FL1 AT280 FH AT280 FC AT280 FR1
額定輸出力矩 T_{2N} Rated output torque	Nm	1	1	25	45	78	150	360	585	1,300	2,150	3,200
			1.5	25	45	78	150	360	585	1,300	2,150	3,200
			2	24	42	68	150	330	544	1,220	2,010	3,050
			3	18	33	54	120	270	450	1,020	1,650	2,850
			4	13	28	48	100	224	376	860	1,410	2,300
			5	12	25	40	85	196	320	740	1,210	2,000
		2	7	12	12	33	91	91	91	195	358	358
			10	24	28	68	150	208	208	430	846	846
			15	18	33	54	120	270	312	645	1,269	1,269
			20	13	28	48	100	224	376	860	1,410	1,692
			25	12	25	40	85	196	320	740	1,210	2,000
			35	12	25	40	85	196	320	740	1,210	1,790
			50	12	25	40	85	196	320	740	1,210	1,465
		3	75	-	-	-	120	210	312	585	1,269	1,269
			100	-	-	-	100	224	376	780	1,410	1,692
			125	-	-	-	85	196	320	740	1,210	2,000
			150	-	-	-	120	135	312	390	975	975
			200	-	-	-	100	180	376	520	1,300	1,300
			250	-	-	-	85	196	320	650	1,210	1,625
			350	-	-	-	85	196	320	740	1,210	1,790
			500	-	-	-	85	196	320	740	1,210	1,465
最大加速力矩 T_{2B} Max. acceleration torque	Nm	1,2,3	1~500	1.5 倍額定輸出力矩 1.5 Times of Rated Output Torque								
最大加速輸入轉速 n_{1B} Max. acceleration input speed	rpm	1	1~5	7,500	6,500	5,500	4,500	3,500	3,000	2,200	2,000	1,700
		2	7~50	8,000	8,000	6,000	6,000	6,000	6,000	4,800	3,600	3,600
		3	75~500	-	-	-	8,000	8,000	6,000	6,000	6,000	6,000
背隙* Backlash	arcmin	1	1~5	≤6	≤6	≤6	≤6	≤6	≤6	≤6	≤6	≤6
		2	7~50	≤8	≤8	≤8	≤8	≤8	≤8	≤8	≤8	≤8
		3	75~500	-	-	-	≤10	≤10	≤10	≤10	≤10	≤10
容許徑向力 F_{2rB}[2] Permissible radial force 輸出軸d2 Output axis	N	1,2,3	1~500	900	1,100	1,700	2,700	4,800	6,600	11,500	16,000	18,000
容許軸向力 F_{2aB}[2] 輸出軸d2	N	1,2,3	1~500	450	550	850	1,350	2,400	3,300	5,750	8,500	9,000
使用壽命 Service life	hr	1,2,3	1~500	20,000*								
效率 η Efficiency	%	1	1~5	≥98%								
		2,3	7~500	≥94%								
使用溫度 Operating temperature	°C	1,2,3	1~500	-10°C ~ 90°C								
潤滑 Lubrication				合成潤滑油脂 Fully Synthetic Grease								
噪音值 (n_1=1500rpm，無負載) Noise value (non-loaded)	dB (A)	1,2,3	1~500	≤71	≤72	≤76	≤77	≤78	≤79	≤81	≤83	≤84

1. 減速比 ($i=N_{in}/N_{out}$) Reduction Ratio

2. 作用於輸出軸中心位置 @ n_{1B}

* 連續運轉降低使用壽命二分之一。

＊背隙值為在 2% 額定力矩 T_{2N} 的扭力下所測得

AT-F 輸入法蘭型系列

Input Flange series 產品規格

減速機轉動慣量 Rotary inertia of reducer



規格 Specification		節數 Stage	比數[1] Ratio	AT065 FL AT065 FL1 AT065 FH AT065 FC AT065 FR1	AT075 FL AT075 FL1 AT075 FH AT075 FC AT075 FR1	AT090 FL AT090 FL1 AT090 FH AT090 FC AT090 FR1	AT110 FL AT110 FL1 AT110 FH AT110 FC AT110 FR1	AT140 FL AT140 FL1 AT140 FH AT140 FC AT140 FR1	AT170 FL AT170 FL1 AT170 FH AT170 FC AT170 FR1	AT210 FL AT210 FL1 AT210 FH AT210 FC AT210 FR1	AT240 FL AT240 FL1 AT240 FH AT240 FC AT240 FR1	AT280 FL AT280 FL1 AT280 FH AT280 FC AT280 FR1
轉動慣量 J_1 Rotary inertia	kg・cm²	1	1	0.51	1.30	3.14	7.62	23.54	59.09	195.96	365.38	787.63
			1.5	0.46	1.15	2.80	6.65	19.34	49.38	156.02	279.62	584.28
			2	0.44	1.10	2.68	6.23	17.72	45.44	140.80	245.78	500.26
			3	0.43	1.09	2.64	6.08	17.16	44.11	135.51	233.75	471.56
			4	0.43	1.08	2.63	6.05	17.03	43.79	134.14	230.77	464.76
			5	0.43	1.08	2.63	6.04	16.99	43.69	133.71	229.71	462.08
		2	7	0.15	0.15	0.50	2.79	2.79	2.79	9.91	29.26	29.26
			10	0.15	0.15	0.50	2.80	2.80	2.80	9.96	29.43	29.43
			15	0.15	0.15	0.50	2.80	2.80	2.80	9.96	29.43	29.43
			20	0.15	0.15	0.50	2.80	2.80	2.80	9.96	29.43	29.43
			25	0.15	0.15	0.50	2.80	2.80	2.80	9.96	29.43	29.43
			35	0.15	0.15	0.50	2.79	2.79	2.79	9.91	29.26	29.26
			50	0.15	0.15	0.50	2.79	2.79	2.79	9.89	29.20	29.20
		3	75	-	-	-	2.80	2.80	2.80	9.96	29.43	29.43
			100	-	-	-	2.80	2.80	2.80	9.96	29.43	29.43
			125	-	-	-	2.80	2.80	2.80	9.96	29.43	29.43
			150	-	-	-	2.79	2.79	2.79	9.89	29.20	29.20
			200	-	-	-	2.79	2.79	2.79	9.89	29.20	29.20
			250	-	-	-	2.79	2.79	2.79	9.89	29.20	29.20
			350	-	-	-	2.79	2.79	2.79	9.89	29.20	29.20
			500	-	-	-	2.79	2.79	2.79	9.89	29.20	29.20

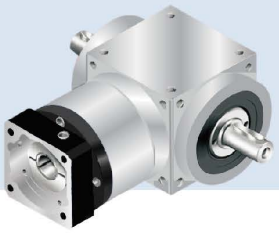
重量 Weight

減速機型號 Reducer model		節數 Stage	比數[1] Ratio	AT065	AT075	AT090	AT110	AT140	AT170	AT210	AT240	AT280
FL 系列 FL Series	kg	1	1~5	2.8	4.4	7.1	12.1	20.9	36.1	69.4	101.2	158.3
		2	7~50	3.2	4.8	8.1	14.3	24.2	38.5	74.1	112.4	171.0
		3	75~500	-	-	-	13.9	23.7	38.8	73.4	110.2	168.7
FL1 系列 FL1 Series		1	1~5	2.7	4.3	7.1	11.9	20.3	35.5	68.3	99.6	156.0
		2	7~50	3.2	4.8	8.0	14.2	23.9	37.9	73.0	110.8	168.6
		3	75~500	-	-	-	13.8	23.4	38.2	72.3	108.6	166.4
FH 系列 FH Series		1	1~5	2.6	4.1	6.7	11.4	18.9	32.9	63.2	92.5	146.0
		2	7~50	3.1	4.6	7.7	13.6	22.4	35.3	67.9	103.7	158.7
		3	75~500	-	-	-	13.3	21.9	35.6	67.2	101.5	156.5
FC 系列 FC Series		1	1~5	2.9	4.4	7.2	11.8	20.4	35.0	66.5	96.0	151.7
		2	7~50	3.3	4.9	8.2	14.1	24.1	37.4	71.2	107.2	164.4
		3	75~500	-	-	-	13.7	23.5	37.5	70.5	105.0	162.2
FR1 系列 FR1 Series		1	1~5	2.7	4.3	7.1	11.9	20.3	35.5	68.3	99.6	156.0
		2	7~50	3.2	4.8	8.0	14.2	23.9	37.9	73.0	110.8	168.6
		3	75~500	-	-	-	13.8	23.4	38.2	72.3	108.6	166.4

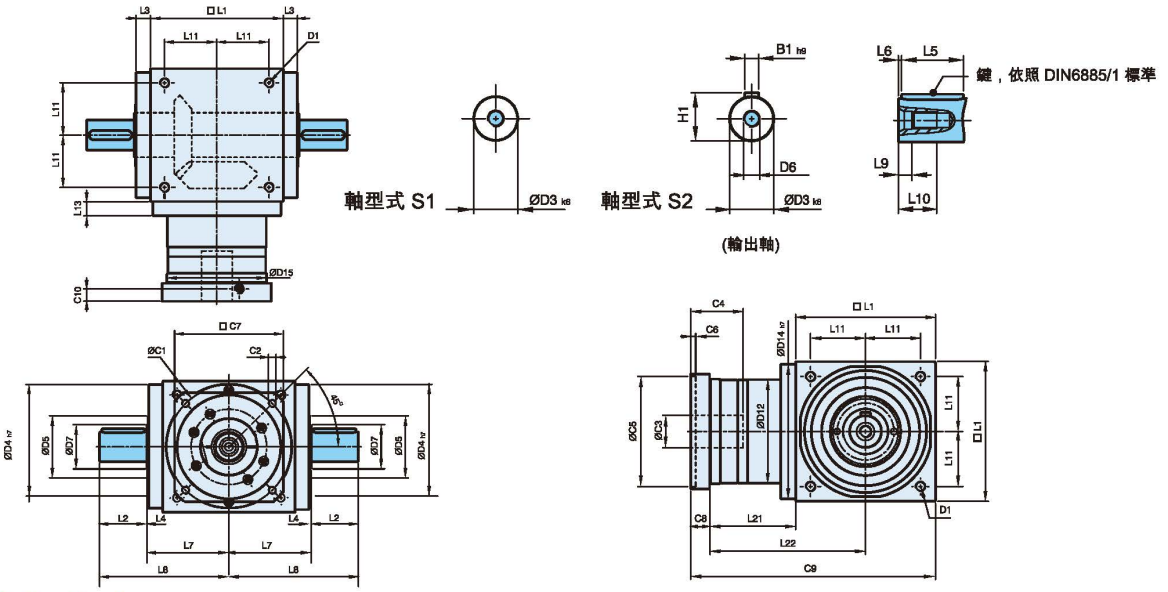
AT-FL系列雙出軸型式

Double Output Shaft Type

尺寸（單節 1-stage，減速比ratio i=1~5）



外形尺寸圖 Dimensions:



規格表 Specifications:

Unit: mm

尺寸 Sizes	AT065 FL	AT075 FL	AT090 FL	AT110 FL	AT140 FL	AT170 FL	AT210 FL	AT240 FL	AT280 FL
D1	M4	M6	M6	M8	M10	M12	M16	M16	M16
D3 k6	13	16	18	22	32	40	50	55	60
D4 h7	63	73	88	108	135	165	205	235	275
D5	31	35	43	53	68	83	104	124	144
D6	M4	M5	M5	M8	M12	M16	M16	M16	M20
D7	21	22	28	33	47	55	75	85	110
D12	62	72	86	106	104	128	160	180	200
D14 h7	63	73	88	108	135	165	205	235	275
D15	62.9	72.9	87	107	105	127	158	178	198
L1	65	75	90	110	140	170	210	240	280
L2	19.5	30	35	40	50	60	75	85	110
L3	13	14.5	15	15	15	15	20	25	25
L4	2	2	2	2	2	2	2	2	2
L5	16	25	28	32	45	50	70	80	100
L6	2	2.5	3.5	4	2.5	5	2.5	2.5	5
L7	47.5	54	62	72	87	102	127	147	167
L8	67	84	97	112	137	162	202	232	277
L9	4.5	4.8	4.8	7.2	10	12	12	12	15
L10	10	12.5	12.5	19	28	36	36	36	42
L11	27	30	36	44	55	67	85	95	110
L13	13	15	15	15	15	15	20	25	25
L21	49	60.5	63	69.5	85.5	95	130	144.5	135
L22	81.5	98	108	124.5	155.5	180	235	264.5	275
C1[3]	46	70	100	100	130	165	215	215	235
C2[3]	M4	M5	M6	M6	M8	M10	M12	M12	M12
C3[3]	★≤11 / ≤12	★≤14 / ≤15.875 / ≤16	≤19	≤24	≤32	≤38	≤42	≤48	≤55
C4[3]	30	34	40	40	50	60	85	85	116
C5[3]	30	50	80	80	110	130	180	180	200
C6[3]	3.5	8	4	4	5	6	6	6	6
C7[3]	42	60	90	90	115	142	190	190	220
C8[3]	19.5	19	17	17	19.5	22.5	29	29	63
C9[3]	133.5	154.5	170	196.5	245	287.5	369	413.5	478
C10[3]	13.25	13.5	10.75	10.75	13	15	20.75	20.75	53.5
B1 h9	5	5	6	6	10	12	14	16	18
H1	15	18	20.5	24.5	35	43	53.5	59	64

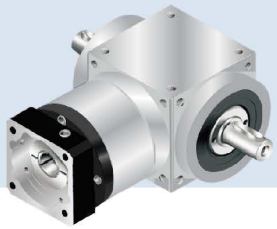
3. C1~C10 是公制標準馬達連接板之尺寸，請上網點選"減速機選用"找出正確之尺寸。

★AT065 FLM1 提供 C3 ≤12 option ★AT075 FLM1 提供 C3 ≤16 option ★AT075 FLM2 提供 C3 ≤15 875 option

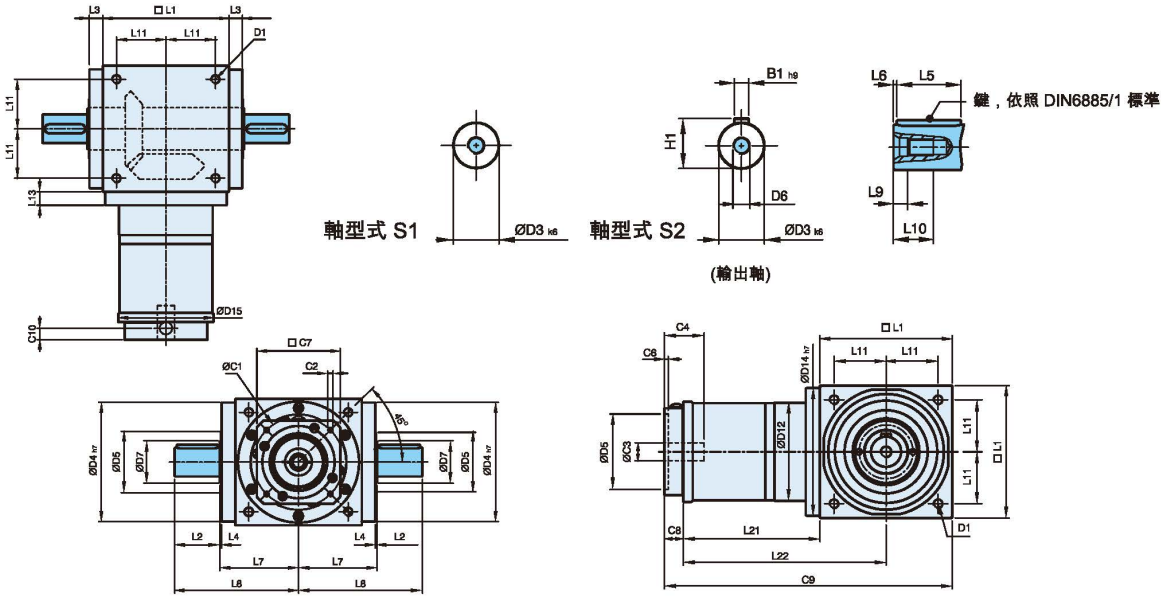
AT-FL系列雙出軸型式

Double Output Shaft Type

尺寸（雙節 2-stage，減速比ratio i=7~50）



外形尺寸圖 Dimensions:



規格表 Specifications:

Unit: mm

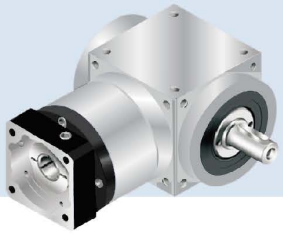
尺寸 Sizes	AT065 FL	AT075 FL	AT090 FL	AT110 FL	AT140 FL	AT170 FL	AT210 FL	AT240 FL	AT280 FL
D1	M4	M6	M6	M8	M10	M12	M16	M16	M16
D3 k6	13	16	18	22	32	40	50	55	60
D4 h7	63	73	88	108	135	165	205	235	275
D5	31	35	43	53	68	83	104	124	144
D6	M4	M5	M5	M8	M12	M16	M16	M16	M20
D7	21	22	28	33	47	55	75	85	110
D12	62	72	86	106	104	128	160	180	200
D14 h7	63	73	88	108	135	165	205	235	275
D15	62.9	72.9	87	107	106	127	158	178	198
L1	65	75	90	110	140	170	210	240	280
L2	19.5	30	35	40	50	60	75	85	110
L3	13	14.5	15	15	15	15	20	25	25
L4	2	2	2	2	2	2	2	2	2
L5	16	25	28	32	45	50	70	80	100
L6	2	2.5	3.5	4	2.5	5	2.5	2.5	5
L7	47.5	54	62	72	87	102	127	147	167
L8	67	84	97	112	137	162	202	232	277
L9	4.5	4.8	4.8	7.2	10	12	12	12	15
L10	10	12.5	12.5	19	28	36	36	36	42
L11	27	30	36	44	55	67	85	95	110
L13	13	15	15	15	15	15	20	25	25
L21	75	84.5	99	122	144.5	157.5	206.5	239	248
L22	107.5	122	144	177	214.5	242.5	311.5	359	388
C1[4]	46	46	70	100	100	100	130	165	165
C2[4]	M4	M4	M5	M6	M6	M6	M8	M10	M10
C3[4]	≤12	≤12	≤16	≤24	≤24	≤24	≤32	≤38	≤38
C4[4]	30	30	34	40	40	40	50	60	60
C5[4]	30	30	50	80	80	80	110	130	130
C6[4]	3.5	3.5	8	4	4	4	5	6	6
C7[4]	42	42	60	92	92	92	115	142	142
C8[4]	21.5	21.5	21.5	20	20	20	24	31	31
C9[4]	161.5	181	210.5	252	304.5	347.5	440.5	510	559
C10[4]	14.5	14.5	15.5	13	13	13	16	21	21
B1 h9	5	5	6	6	10	12	14	16	18
H1	15	18	20.5	24.5	35	43	53.5	59	64

4. C1~C10 是公制標準馬達連接板之尺寸，請上網點選"減速機選用"找出正確之尺寸。

AT-FL1（左）/AT-FR1(右)系列

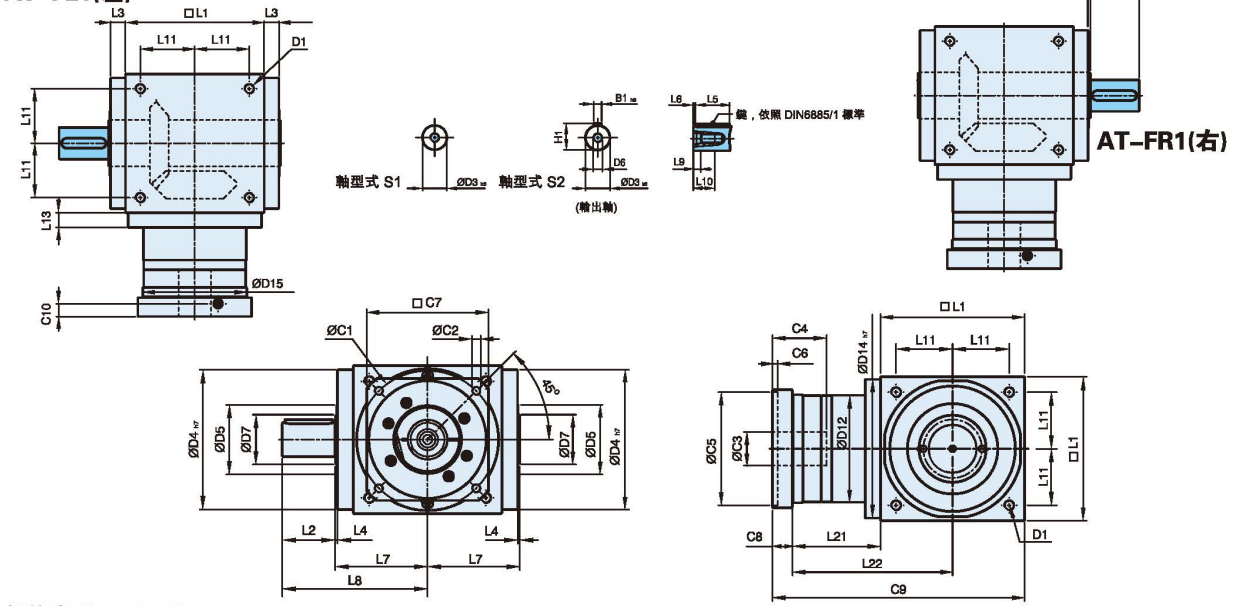
單出軸型式 Single Output Shaft Type

尺寸（單節 1-stage，減速比ratio i=1~5）



外形尺寸圖 Dimensions:

AT-FL1(左)



規格表 Specifications:

Unit: mm

尺寸	AT065 FL1/FR1	AT075 FL1/FR1	AT090 FL1/FR1	AT110 FL1/FR1	AT140 FL1/FR1	AT170 FL1/FR1	AT210 FL1/FR1	AT240 FL1/FR1	AT280 FL1/FR1
D1	M4	M6	M6	M8	M10	M12	M16	M16	M16
D3 k6	13	16	18	22	32	40	50	55	60
D4 h7	63	73	88	108	135	165	205	235	275
D5	31	35	43	53	68	83	104	124	144
D6	M4	M5	M5	M8	M12	M16	M16	M16	M20
D7	21	22	28	33	47	55	75	85	110
D12	62	72	86	106	104	128	160	180	200
D14 h7	63	73	88	108	135	165	205	235	275
D15	62.9	72.9	87	107	105	127	158	178	198
L1	65	75	90	110	140	170	210	240	280
L2	19.5	30	35	40	50	60	75	85	110
L3	13	14.5	15	15	15	15	20	25	25
L4	2	2	2	2	2	2	2	2	2
L5	16	25	28	32	45	50	70	80	100
L6	2	2.5	3.5	4	2.5	5	2.5	2.5	5
L7	47.5	54	62	72	87	102	127	147	167
L8	67	84	97	112	137	162	202	232	277
L9	4.5	4.8	4.8	7.2	10	12	12	12	15
L10	10	12.5	12.5	19	28	36	36	36	42
L11	27	30	36	44	55	67	85	95	110
L13	13	15	15	15	15	15	20	25	25
L21	49	60.5	63	69.5	85.5	95	130	144.5	135
L22	81.5	98	108	124.5	155.5	180	235	264.5	275
C1[6]	46	70	100	100	130	165	215	215	235
C2[6]	M4	M5	M6	M6	M8	M10	M12	M12	M12
C3[6]	★≤11 / ≤12	★≤14 / ≤15.875 / ≤16	≤19	≤24	≤32	≤38	≤42	≤48	≤55
C4[6]	30	34	40	40	50	60	85	85	116
C5[6]	30	50	80	80	110	130	180	180	200
C6[6]	3.5	8	4	4	5	6	6	6	6
C7[6]	42	60	90	90	115	142	190	190	220
C8[6]	19.5	19	17	17	19.5	22.5	29	29	63
C9[6]	133.5	154.5	170	196.5	245	287.5	369	413.5	478
C10[6]	13.25	13.5	10.75	10.75	13	15	20.75	20.75	53.5
B1 h9	5	5	6	6	10	12	14	16	18
H1	15	18	20.5	24.5	35	43	53.5	59	64

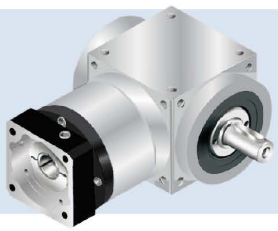
6. C1~C10 是公制標準馬達連接板之尺寸，請上網點選"減速機選用"找出正確之尺寸。

★AT065 FL1/FR1M1 提供 C3 ≤12 option. ★AT075 FL1/FR1M1提供 C3 ≤16 option. ★AT075 FL1/FR1M2提供 C3 ≤15.875 option.

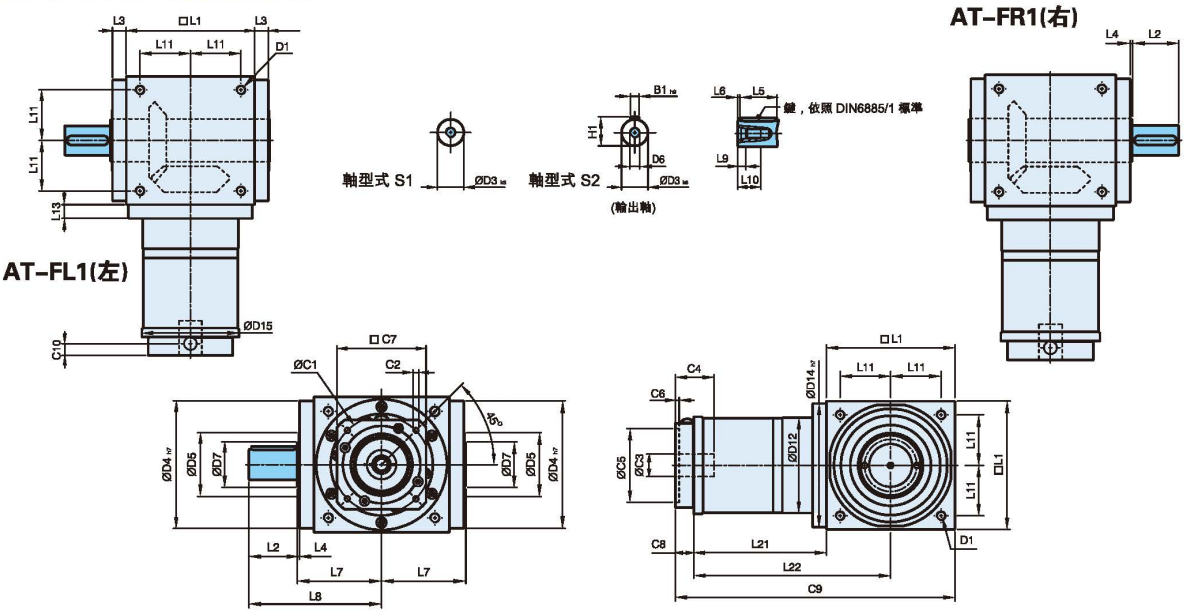
AT-FL1（左）/AT-FR1(右)系列

單出軸型式 Single Output Shaft Type

尺寸（雙節 2-stage，減速比ratio i=7~50）



外形尺寸圖 Dimensions:



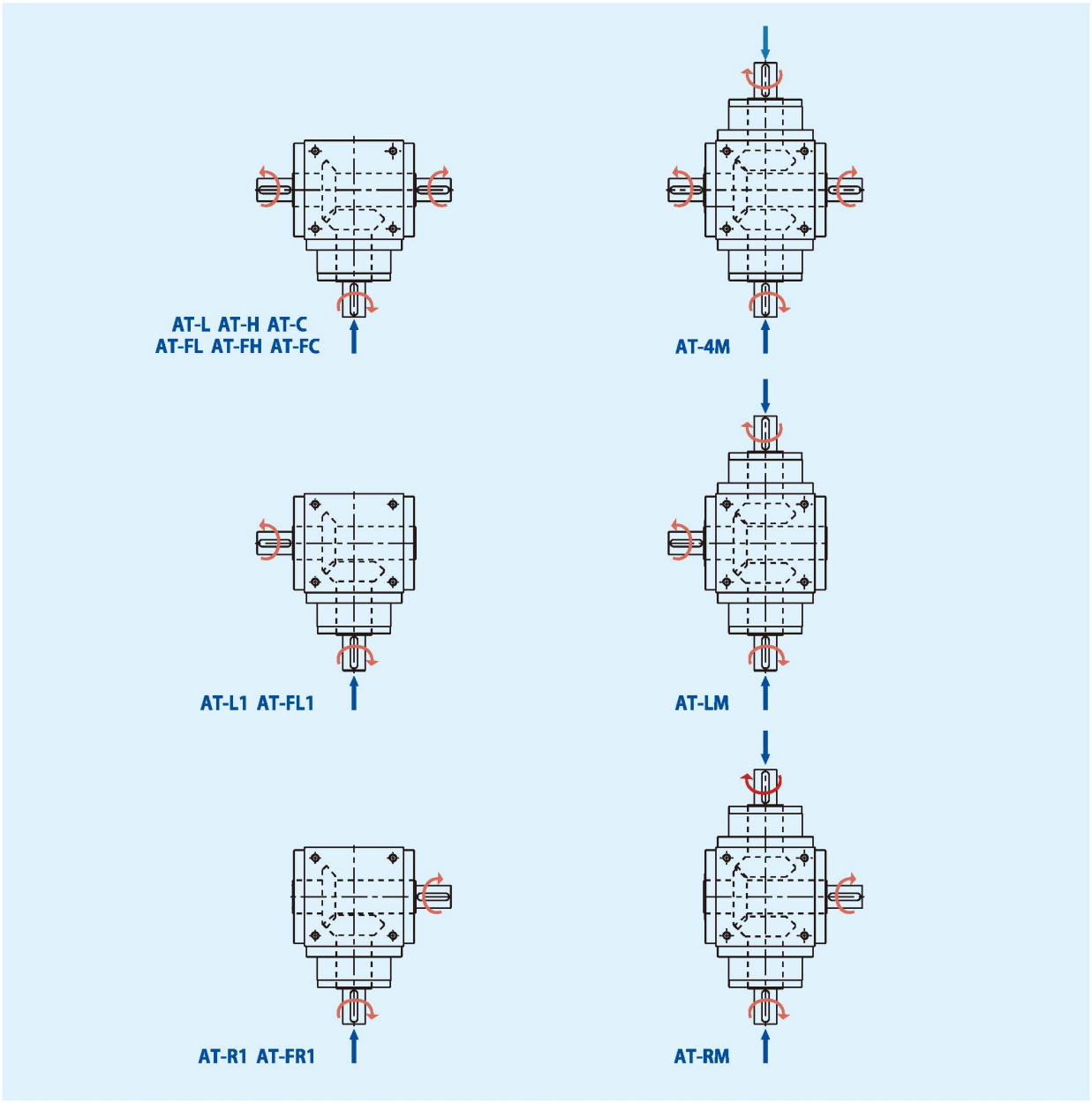
規格表 Specifications:

Unit: mm

尺寸 Sizes	AT065 FL1/FR1	AT075 FL1/FR1	AT090 FL1/FR1	AT110 FL1/FR1	AT140 FL1/FR1	AT170 FL1/FR1	AT210 FL1/FR1	AT240 FL1/FR1	AT280 FL1/FR1
D1	M4	M6	M6	M8	M10	M12	M16	M16	M16
D3 k6	13	16	18	22	32	40	50	55	60
D4 h7	63	73	88	108	135	165	205	235	275
D5	31	35	43	53	68	83	104	124	144
D6	M4	M5	M5	M8	M12	M16	M16	M16	M20
D7	21	22	28	33	47	55	75	85	110
D12	62	72	86	106	104	128	160	180	200
D14 h7	63	73	88	108	135	165	205	235	275
D15	62.9	72.9	87	107	106	127	158	178	198
L1	65	75	90	110	140	170	210	240	280
L2	19.5	30	35	40	50	60	75	85	110
L3	13	14.5	15	15	15	15	20	25	25
L4	2	2	2	2	2	2	2	2	2
L5	16	25	28	32	45	50	70	80	100
L6	2	2.5	3.5	4	2.5	5	2.5	2.5	5
L7	47.5	54	62	72	87	102	127	147	167
L8	67	84	97	112	137	162	202	232	277
L9	4.5	4.8	4.8	7.2	10	12	12	12	15
L10	10	12.5	12.5	19	28	36	36	36	42
L11	27	30	36	44	55	67	85	95	110
L13	13	15	15	15	15	15	20	25	25
L21	75	84.5	99	122	144.5	157.5	206.5	239	248
L22	107.5	122	144	177	214.5	242.5	311.5	359	388
C1[7]	46	46	70	100	100	100	130	165	165
C2[7]	M4	M4	M5	M6	M6	M6	M8	M10	M10
C3[7]	≤12	≤12	≤16	≤24	≤24	≤24	≤32	≤38	≤38
C4[7]	30	30	34	40	40	40	50	60	60
C5[7]	30	30	50	80	80	80	110	130	130
C6[7]	3.5	3.5	8	4	4	4	5	6	6
C7[7]	42	42	60	92	92	92	115	142	142
C8[7]	21.5	21.5	21.5	20	20	20	24	31	31
C9[7]	161.5	181	210.5	252	304.5	347.5	440.5	510	559
C10[7]	14.55	14.5	15.5	13	13	13	16	21	21
B1 h9	5	5	6	6	10	12	14	16	18
H1	15	18	20.5	24.5	35	43	53.5	59	64

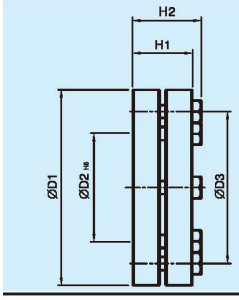
7 C1~C10 是公制標準馬達連接板之尺寸，請上網點選"減速機選用"找出正確之尺寸。

轉向圖 Diagram of Rotate Direction



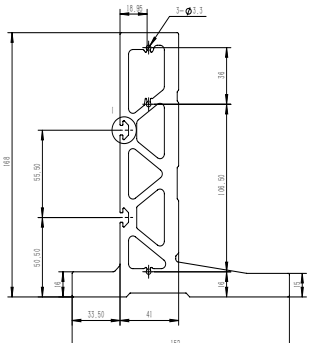
縮緊盤附件選配 Selection of Shrink Disc Accesseries

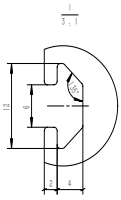
(單位：mm)



C / FC 系列	D1	D2	D3	H1	H2
SSD-d16xdw14	41	16	26	15	18.5
SSD-d22xdw18	50	22	36	19.5	23
SSD-d25xdw22	50	25	38	19.5	23
SSD-d44xdw32	80	44	61	25.5	29.5
SSD-d50xdw40	90	50	70	27.5	31.5
SSD-d62xdw50	110	62	86	30.5	34.5
SSD-d68xdw55	115	68	86	30.5	34.5
SSD-d75xdw60	138	75	100	32.5	38

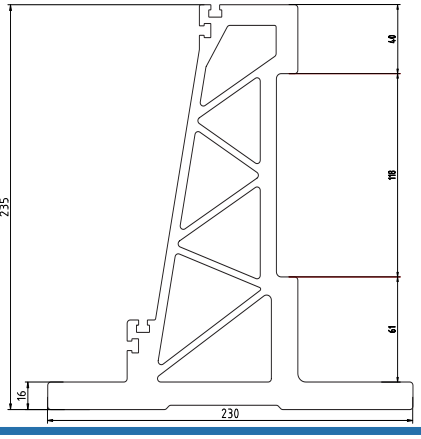
162x152 Backboard profile





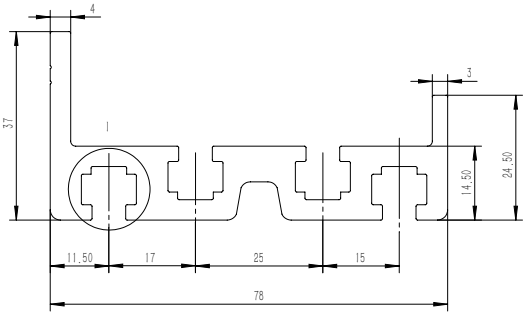


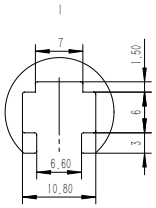
230x235 Backboard profile

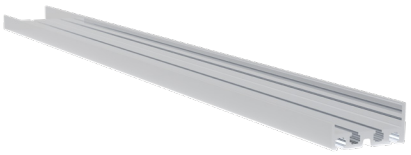




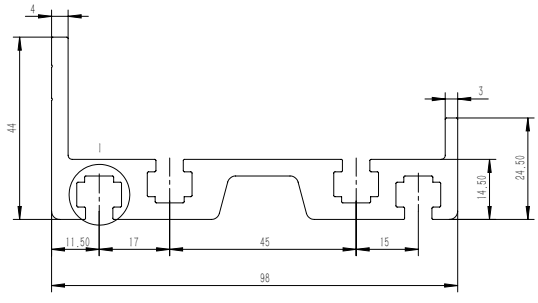
25*38 Tank chain profiles

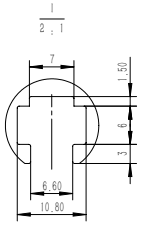


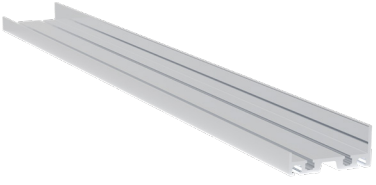




25 * 57 Tank Chain Profile







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References/information collection forms



保固期限及范围
Warranty

SHELE robots are designed and manufactured to be free from defects in materials and workmanship.
However,should any failure occur in the robot you purchaesd, the shele warranty coverage is as follows.

保固期限 Warranty Period

保固期限有以下 3 项，何者先到就以其作为保固期限依据 。

期限为：

- 由本公司出厂后 12个月。
- 行驶里程10000公里。
- 使用时间 2500 小时。

This warranty is effective for a period of :

- 12 months (one years) after shipment from SHELE factory,or
- 10000 km
- 2,500 hours of actual operation whichever comes first.

保固范围 Exceptions to the Warranty

在保固期间，正常使用下而发生的故障，由本公司负责免費维修，但不包括以下事项：

- 外部油漆剥落及自然褪色。
- 消耗品的更换。
- 地震、风暴、洪水、雷电、火灾或其他自然或人祸造成的损坏。
- 使用者不适当的安装或使用。
- 未经本公司同意而自行改装。
- 使用其他不是真正或未使用指定的润滑油和油脂。
- 不完全或错误的维护和检查。
- 维修以外的其他授权经销商。

This warranty will not apply in the following cases :

- Fatigue arising due to the passage of time, natural wear and tear occurring during operation (natural fading of panited or plated surfaces, deterioration of parts subject to wear).
- Minor natural phenomena which do not effect the capabilities of the robot (noise from computers, motors,etc.).
- Damage due to earthquakes, stroms, floods,thunderbolt,fire or any otfer natural or man-made calamities.
- Troubles caused by procedures prohibited in this manual.
- Modifications to the robot not approced by SHELE or SHELE sales representatives.
- Use of any other than genuine parts and specified lubricant and grease.
- Insufficicntcy or errors in maintenance and inspection.
- Repairs by other than authorized dealers.

另本公司负责自身商品的故障维修，但并不负责因产品故障引起的其他损失。

In addition. we response for the failure of our own goods repair, but are not responsible for other losses caused due to

服务范围 Services Coverage

购买本公司产品，本公司提供您下列服务：

- 指导安装调教及试运转。
- 指导保养维护。
- 操作配线的技术指导及教育。
- 编程的技术指导及教育。

We provide customers with the following services :

- Guide to installation and trial operation.
- Guide to maintenance.
- Guide to wiring technical operation and training.
- Guide to technical programming.

使用安全注意事项
Cautions

SHELE 产品使用安全注意事项 Product Safety Information

在选定型号及使用电动滑台之前，请熟读〝安全注意事项〞及〝操作说明书〞以安全、正确地使用产品。
本书注意事项的目的是防止因错误使用电动滑台而引起伤害事故，请正确理解操作手册的各项注意事项 及
各种标示，请遵守各注意事项。

To ensure correct and safe use of SHELE industrial robots, carefully read this maunal and make yourself well acquainted with the contents. FOLLOW THE WARNINGS, CAUTIONS AND INSTRECTIONS INCLUDED IN THIS MANUAL. Warning information in this maunal is shown classified into the following items.

1. 安全记载 Safety Records

产业用的电动滑台是拥有高度程序设计的机械，动作上有很大的自由度，为了能安全正确地使用 SHELE电动滑台，以下记载有关安全性指示请务 必注意。如果没有执行必要的安全对策操作或错误操作时，不仅会引起电动滑台的故障和损伤，有可能还会造成使用者（ 包含安装、操作、调整、检 查者等 ）受伤、死亡和重大的事故。

Industrial robots are highly mechanical devices that provide a large degree of freedom when performing various manipulative tasks.Failure to take necessary safety measures or mishandling due to not following the instructions in this manual may result in trouble or damage to the robot and injury to personnel (robot operator or service personnel) including fatal accidents.

危险 DANGER

如果操作错误，会造成死亡还有重伤，以致危及到生命。

Failure to follow DANGER instructions will result in severe injury or death to the robot operator,bystanders or persons inspecting or repairing the robot.

警告 WARNING

如果操作错误，会造成死亡还有重伤可能性。

Failure to follow WARNING instructions could result in severe injury or death to the robot operator,bystanders or persons inspecting or repairing the robot.

注意 CAUTION

如果操作错误，有可能造成人员受伤及物品的损伤。

Failure to follow CAUTION instructions may result in injury to the robot operator, bystanders or persons inspecting or repairing the robot,or damage to the robot and or robot controller.

要点 POINTS

电动滑台操作顺序的要点说明。

Key points of the sequence of operations of the Electric Slide.

操作说明书无法详细叙述所有关于安全项目的细项，故使用者务必遵照本注意事项，以建立正确的安全知识及判断的能力。有关电动滑台的位置，使用的基本法则、规格请参照本书中有关电动滑台的设置。另外，本电动滑台的警告标志及操作说明书是针对SHELE的。 电动滑台向国外出口时，警告标记及操作说明书有必要进行变更。

NOTE

It is not possible to list all safety items in detail within the limited space of this manual. So it is essential that the user have a full knowledge of base safety rules and also that the operator makes correct judgments on safety procedures during operation.

This manual and warning labels supplied with or affixed to the robot are written in English. If the robot operator or service personnel does not undewstand English, do not permit that person to handle the robot.

2. 特别重要的注意事项 Particularly Important Considerations

以下是电动滑台操作说明的重要注意事项。另外，在各章有关安装、操作、检查、保养的注意事项皆有记载。这些注意事项请严格遵守。

（一）自动进行时的注意

Observe the following cautions during automatic operation.

■ 操作者进入电动滑台可动范围内，为防止在电动滑台的可动部接触而造成受伤，请设定安全防护栅。

■ 在安全防护栅的入口，请设计开和急停的连锁装置。

■ 请尽量不要从连锁装置入口及外处进出。

■ Install a safeguard (protective enclosure) to keep any person from entering within the movement range of the robot and suffering injury due to being struck by moving parts.

■ Install a safety interlock that triggers emergency stop when the door or panel is opened.

■ Install safeguards so that no one can enter inside except from doors or panels equipped with safety interlocks.

危险 DANGER

如果接触正在运行的电动滑台，有可能会造成重伤。
■自动运行时，不要进入电动滑台安全防护栅。
■进入安全防护栅时，要按急停按钮。

Serious injury or death will result from impact with moving robot.

■ Keep outside of guard during operation.

■ Lock out power brfore approaching robot.

（二）注意手被夹

Attention to hand sandwiched.

操作电动滑台等时，在可动部请注意不要夹到手。

Use caution to prevent hands or fingers from being pinched or crushed.

警告 WARNING

有可能夹伤。
手等不要靠近电动滑台的可动部份。
请与电动滑台的可动部分保持距离。

Moving parts can pinch or crush.

Keep hands away from robot arms.

（三）关于操作说明

Follow the instructions on listed on warning labels and in this manual.

■电动滑台安装前，必须读操作说明，请按照上面的批示进行作业、操作。

■读了操作说明后，进行操作之前，请再读一次「SHELE 产品使用安全注意」。

■本操作说明书中没有写安装、调整、检查、维护、操作等，请不要操作。

■ Be sure to read the warning labels and this manual carefully and make sure you thoroughly understand their contents before attempting installation and operation of the robot.

■ Before starting robot operation, be sure to reread the procedures and cautions relating to your work as well as descriptions in this chapter (“SHELE product Safety Information”).

■ Never install, adjust, inspect or service the robot in any manner that does not comply with the instructions in this manual.

警告 WARNING

如果错误安装操作电动滑台的话，可能会造成重伤。安装、操作之前，必须详读操作说明书。

Improper installation or operation can result in serious injury or death.

Read the owner’s manual and all warning labels before operation.

使用安全注意事項
Cautions

（四）禁止在可燃性气体等环境中使用
Do not use the robot in environments containing inflammable gas, etc.

警告 WARNING

■本电动滑台没有防爆规格。
■请不要在可燃性气体、可燃性粉末、引火性液体等环境裡使用，有爆发、引火的可能性。
■ This robot was not designed for operation in environments where inflammable or explosive substances are present.
■ Do not use the robot in environments containing inflammable gas, dust or liquids. Explosions or fire might otherwise result.

（五）禁止在有电磁妨害等可能的情况下使用
Do not use the robot in locations possibly subject to electromagnetic interference, etc.

警告 WARNING

在有电磁妨害、静电气放电、无线磁波妨害的场所，请不要使用电动滑台，电动滑台的错误操作会造成危险。
Avoid using the robot in locations subject to electromagnetic interference, electrostatic discharge or radio frequency interference. Malfunctions might otherwise occur.

（六）解除垂直规格电动滑台（ 上下轴 ）煞车时的注意
Use caution when releasing the brake of a vertical use robot.

警告 WARNING

解除煞车的话，有上下轴下滑的危险。
■按急停按钮后，解除煞车之前，请用挡块挡住上下轴。
■进行解除煞车直接示教时，请注意保护不要被夹在上下轴和架台之间。
The vertical axis will slide down when the brake is released, causing a hazardous situation.
■ Press the emergency stop button and prop up the vertical axis with a support stand before releasing the brake.
■ Be careful not to let your body get caught between the vertical axis and installation base when releasing the brake to perform direct teach.

（七）取出马达时的注意点（ 垂直规格 ）
Use caution when removing the motor. (Vertical use robots)

警告 WARNING

如果取出马达的话，会有上下轴滑落的危险。
■先切断控制器电源，马达取出前请用挡块挡住上下轴。
■请注意尽量不要让身体夹在上下轴驱动部及上下轴和架台之间。
■ The vertical axis will slide down when the motor is released, causing a hazardous situation.
■ Turn off the robot controller and prop up the vertical axis with a support stand before removing the motor. Be careful not to let your body get caught between the vertical axis parts and installation base.

（八）控制器检查时的注意点
Take the following safety precautions during inspection of controller.

警告 WARNING

■在控制器检查、接触控制器外侧端子、接续接线柱的情况时，为了防止触电请切断控制器电源，也切断供电源。
■绝对不能接触控制器内部。
■ When you need to touch the terminals or connectors on the outside of the controller during inspection, always first turn off the controller power switch and also the power source in order to prevent possible electrical shock.
■ Never touch any internal parts of the controller.

（九）处理电动滑台的损伤及异常

Consult with us for corrective action when the robot is damaged or malfunctions occur.

警告 WARNING

■电动滑台有损伤及异常情况发生时，使用是危险的，请立即停止使用，并与本公司联络。

■钢带、滚轮、润滑油为消耗品，建议一年更换一次。

■ If any part of the robot is damaged or any malfunction occurs,continuing the operation may be very dangerous. Please consult with your SHELE sales office or dealer for corrective action.

■ Steel strip, roller and lubricant are consumables. We suggest to replace once a year.

（十）接触马达及减速机箱的高温部注意点

Be careful not to touch the motor or speed reduction gear casing when hot.

警告 WARNING

自动运转后的马达及减速机箱将会达到高温，如果接触的话，有可能会造成烧伤。进行接触检查等情况时，请先切断控制器电源，由于温度会随著时间下降，请在确认温度下降后再接触。

The motor and speed reduction gear casing are extremely hot after automatic operation, so burns may occur if these are touched. Before handling these parts during inspection or servicing, turn off the controller, wait for a while and check that the part has cooled.

（十一）禁止除去、改变及损害警告标志

Do not remove, alter or stain the warning labels.

警告 WARNING

■私自除去警告标记，可能会因没有看到警告而引起事故。

■请不要用附近的机器来遮挡住电动滑台上的警告标记。

■请确保警告标记的图案、文字从安全防护栅外可以十分明显看到。

■ Do not remove, alter or stain the warning labels on the robot.

■ Do not allow the warning labels to be hidden by devices installed onto the robot by the user.

■ Provide proper lighting so that the symbols and instructions on the warning labels can be clearly seen even from outside the safeguard enclosure.

（十二）保护结合

Protective bonding.

警告 WARNING

为了防止静电，请务必将电动滑台和控制器接地。

Be sure to ground the robot and controller to prevent electrical.

（十三）注意参数的设定

Be sure to make correct parameter settings.

警告 WARNING

允许惯性因素及先端质量，请适当保持电动滑台加速度的运动。不能保持的情况下，会引起驱动部早期的寿命下降、破损及定位时残留振动。

The robot must be operated with correct tolerable moment of inertia and acceleration coefficients according to the manipulator tip mass and moment of inertia. If these are not correct, drive unit service life may end prematurely, and damage to robot parts or residual vibration during positioning may result.

使用安全注意事項
Cautions

3. 电动滑台的安全功能 Robot Safety Functions

(一)过负载检出
Overload detection.

检验马达的超负载，切断伺服电源。

This function detects an overload applied to the motor and shuts off the servo power.

(二)外部极限SENSOR
Soft limits.

在设定各轴和外部极限 SENSOR 的状态下，原点复归后限制手动运转、自动运转时的动作范围。另外，根据外部极限 SENSOR 来限制的区域叫做动作范围。

Soft limits can be set on each axis to limit the working envelope in manual operation after return-to-origin and during automatic operation.

Note: The working envelope is the area limited by soft limits.

(三)机械挡块
Mechanical stoppers.

机械挡块是为了防止超越轴的可动范围而设置的，可在切断伺服电源高速移动时进行急停、安全功能等，回转轴部分则没有机械挡块设计。机械挡块限制的领域也可叫做可动范围。

If the servo power is suddenly shut off during high-speed operation by emergency stop or safety functions, these mechanical stoppers prevent the axis from exceeding the movement range. No mechanical stopper is provided on the rotating axis.

Note: The movement range is the area limited by mechanical stoppers.

警告 WARNING

轴移动时，因急停操作，安全功能等，即使切断伺服电源，轴也不能马上停止而设制所以请注意。

Axis movement will not stop immediately after the servo power supply is shut off by emergency stop or other safety functions.

(四)垂直规格(上下轴)煞车
Vertical axis brake.

垂直规格（上下轴）是断开伺服电源时，为了防止滑台的下滑而附加的电磁煞车，在关闭控制器电源及接上控制器电源时，上下轴伺服断开时，採用煞车。

An electromagnetic brake is installed on the vertical use robot to prevent the vertical axis from sliding down when servo power is turned off. This brake is working when the controller is off or the vertical axis servo power is off even when the controller is on. The vertical axis brake can be released by means of the programming unit or by a command in the program when the controller is on.

警告 WARNING

煞车释放时垂直轴会向下滑动，而产生危险。

■先压急停钮及支撑垂直轴再鬆开煞车。

■在释放煞车的时候，请小心不要让身体介于垂直轴和架台之间。

The vertical axis will slide down when the brake is released, creating a hazardous situation.

■ Press the emergency stop button and prop the vertical axis with a support stand before releasing the brake.

■ Use caution not to let your body get caught between the vertical axis and installation base when releasing the brake to perform direct teach.

4. 系统的安全措施 Safety Measures for the System

组装融入电动滑台的自动系统时，比起电动滑台单体而言，系统引起的危险更增多。对系统制造者而言，务必求得与各个系统相匹配的安全措施。与系统的安全措施、操作、维护等相关的，请系统制造者适当操作。

Since the robot is commonly used in conjunction with an automated system, dangerous situations are more likely to occur from the automated system than from the robot itself. Accordingly, appropriate safety measures must be taken on the part of the system manufacturer according to the individual system.

The system manufacturer should provide a proper instruction manual for safe, correct operation and servicing of the

system.

5. 试运转 Trial Operation

进行机器人的安装、调整、检查、维护、修理等后，请按下列顺序进行试运转。

After making installations, adjustments, inspections, or maintenance or repairs to the robot, make a trial run using the following procedures.

（一）安装后没有准备安全防护栅的场合

If a safeguard enclosure has not yet been provided right after installation of the robot.

张开缆和锁的可动范围的外侧来拉绳，以代替安全防护栅，请严格遵守下面的事项： 1. 支柱是不容易动的。

2. 从周围能够容易辨识。

3. 在容易看的位置标示出禁止进入运转中，作业者不能进入可动范围内。

If a safeguard enclosure has not yet been provided right after installation of the robot, rope off or chain off around the movement area of the manipulator in place of the safeguard, and observe the following points.

1 .Use sturdy, stable posts which will not fall over easily.

2 .The rope or chain should be easily visible by everyone around the robot.

3 .Place a sign to keep the operator or other personnel from entering the movement range of the manipulator.

（二）插入控制器电源前的确认

Check the following points before turning on the controller.

1. 滑台机器人是否正确安装。
2. 电气是否正确安装。
3. 和接地等的接续是否适当。
4. 和周边滑台的接续是否适当。
5. 有没有安全防护对策（安全防护栅等）的措施。
6. 设置环境是否在指定环境内。

1 .Is the robot securely and correctly installed?

2 .Are the electrical connections to the robot correct?

3 .Are items such as air pressure correctly supplied?

4 .Is the robot correctly connected to peripheral equipment?

5 .Have safety measures (safeguard enclosure, etc.) been taken?

6 .Does the installation environment meet the specified standards.

（三）插入控制器电源后的确认

After the controller is turned on, check the following points from outside the safeguard enclosure.

插入控制器电源后确认以下事项：

1. 启动、停止、选择模式等按键，是否能正常启用。
2. 通过转动各轴，能否限制软体极限。
3. 最终的效果能否通过计划进行。
4. 和最终的效果、周边机器信号的交换是否正常。
5. 紧急停止能否运行。

6. 示教器及演示的功能是否正常。
7. 安全防护及连接装置功能是否能通过。
8. 自动运转时能否进行适当的动作。

After the controller is turned on, check the following points from outside the safeguard enclosure.

1 .Does the robot start and stop as intended? Can the operation mode be selected correctly?

2 .Does each axis move as intended within the soft limits?

3 .Does the end effector move as intended?

4 .Are the signal transmissions to the end effector and peripheral equipment correct?

5 .Does emergency stop work?

6 .Are the teaching and playback functions normal?

7 .Are the safeguard enclosure and interlock working as intended?

8 .Does the robot move correctly during automatic operation?

6. 在安全防护栅内作业 Work Within the Safeguard Enclosure

（一）在安全防护栅内作业
Work within the safeguard enclosure.

（一）在安全防护栅内作业
在安全防护栅中作业时，除了以下的例外，必须切断控制器的电源，工作中应做明显标志以确保其他作业者不操作控制器的电源开关、操作盘等。
1）外部极限 SENSOR 的设定。
2）示教。
1. 作业时，请按下面各项注意事项的顺序进行。
2. 请参照以下的（二）。

(1)Work within the safeguard enclosure

When work is required inside the safeguard enclosure, always turn off the controller and place a sign indicating that the robot is being adjusted or serviced in order to keep any other person from touching the controller switch or operation panel, except for the following cases.

1)Soft limit settings

2)Teaching

For item 1), follow the precautions and procedure for each section. To perform item 2), refer to the description in (2) below.

（二）教导
Teaching

（二）教导
教导在安全防护内进行时请依照以下进行：
1） 在防护栅外请从以下几点来确认。
1. 凭目视确认安全防护栅内有无危险。
2. 手持编程器是否为正常动作。
3. 电动滑台有无故障。
4. 紧急停止装置是否可正常运作。
5. 教导器模式下禁止自动运转。
2）切勿进入机械手之安全防护罩的动作范围。

(2)Teaching

When performing teaching within the safeguard enclosure, comply with the instructions listed below.

Check or perform the following points from outside the safeguard enclosure.

1.Make sure that no hazards are present within the safeguard enclosure by a visual check.

2.Check that the programming unit MPB or DPB operates correctly.

3.Check that no failures are found in the robot.

4.Check that emergency stop works correctly.

5.Select teaching mode and prohibit automatic operation.

7. 自动运行 Automatic Operation

（一）进行运转前的确认

Automatic operation described here includes all operations in AUTO mode.

进行运行前请确认下面事项：

1. 安全防护栅内没有人。
2. 手持教导器、工具等在指定的位置。
3. 显示滑台还有周边的机器的异常，是否由灯泡等来显示。
4. 安全防护栅被设置、互锁等功能起作用。

Never enter the movement range of the manipulator while within the safeguard enclosure.

(1) Check the following before starting automatic operation.

1.No one is within the safeguard enclosure.

2.The programming unit and tools are in their specified locations.

3.The alarm or error lamps on the robot and peripheral equipment do not flash.

4.The safeguard enclosure is securely installed with safety interlocks actuated.

（二）进行时及异常情况发生

Observe the following during automatic operation or in cases where an error occurs.

1） 运行开始后，运行状态、自动运行时根据指示灯来确认。

2） 运行时，绝对不许进入安全防护栅内。

3）电动滑台还有周边机器发生异常情况等，进入防护栅内时，进入前请按以下的顺序。

1. 按紧急停止开关、电动滑台紧急停止。
2. 启动开关等表示开始作业，进行应急措施等，采取措施以防止作业员以外的人去操作电动滑台。

1) After automatic operation has started, check the operation status and warning lamp to ensure that the robot is in automatic operation.

2) Never enter the safeguard enclosure during automatic operation.

3) If an error occurs in the robot or peripheral equipment, observe the following procedure before entering the safeguard enclosure.

1.Press the emergency stop button to set the robot to emergency stop.

2.Place a sign on the start switch, indicating that the robot is being inspected in order to keep any other person from touching the start switch and rcfarting the robot.

8. 调整、检查等 Adjustment and Inspection

本操作说明书裡没有写的安装、调整、检查、维护等，请不要进行操作。

Do not attempt any installation, adjustment, inspection or maintenance unless it is described in this manual.

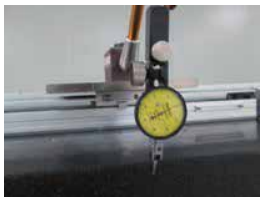
9. 修理、改造等 Repair and Modification

本操作说明书裡没有列出修理、零件的更换以及改造等。以上动作需拥有专业知识，请不要任意进行，可能会发生危险。

Do not attempt any repair, parts replacement and modification unless described in this manual. These works require technical knowledge and skill, and may also involve work hazards.

量测工具
Measring Tools

1. 检测平行度 / 等高度 Parallelism Testing / Height Testing




使用量具 Measuring Tools :

百分表、千分表 Dial Gauge 、Dial Indicator

量测方法 Measuring Methods :

1. 将产品固定于花岗石上Fix the actuator on granite.
2. 将量具固定于产品滑座Fix the measuring tools on the actuator's slider.
3. 如照片方式量测 As photo display.
4. 并用录影方式存档备查Record it as a reference.

2. 检测行走直线绝对精度 Absolute Straightness Accuracy Testing



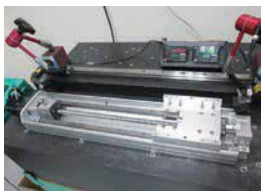

使用量具 Measuring Tools :

雷射干涉仪检测 Laser Interferometer Detection

量测方法 Measuring Methods :

1. 将产品固定于花岗石上 Fix the actuator on granite.
2. 将量具固定于产品滑座Fix the measuring tools on the actuator's slider.
3. 如照片方式量测 As photo display.
4. 并列印测试报告Print the test report as a recoder.

3. 检测重复定位精度 Absolute Straightness Accuracy Testing



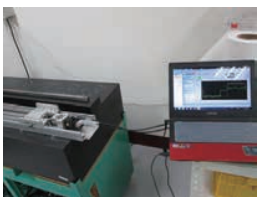

使用量具 Measuring Tools :

雷射定位检测 Laser Position Detection

量测方法 Measuring Methods:

1. 将产品置于花岗石上 Fix the actuator on granite.
2. 运用雷射照射反射原理，对准于滑座端面，检测之重複定位精度
   Use laser to align the slider's side to the detect the repeatability accuracy.
3. 如照片方式量测As photo display.
4. 并用录影方式存档备查Record it as a reference.

4. 检测动力驱动情况以马达电流值为检测标准 Power Drive Situation Testing by Motor Electric Current



使用量具 Measuring Tools :

三菱伺服驱动器 Mitsubishi Servo Driver 100W 、200W 、400W 、750W

量测方法 Measuring Methods :

1. 将产品固定于花岗石上Fix the actuator on granite.
2. 安装相应马达 Fix the measuring tools on the actuator's slider.
3. 如照片方式量测As photo display.
4. 并用录影方式存档备查Record it as a reference.

5. 检测顺畅度 Smoothness Testing



使用量具 Measuring Tools :

推拉力检测器 Pull Tension Gauge

量测方法 Measuring Methods :

1. 将产品固定于花岗石上 Fix the actuator on granite.
2. 用推拉力检测器推动滑座Push the slider useing pull tension gauge.
3. 如照片方式量测As photo display.
4. 并用录影方式存档备查Record it as a reference.

6. 检测皮带张力 Belt Tension Testing



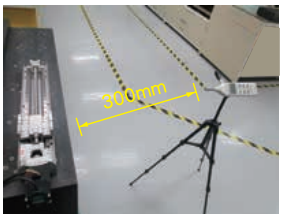
使用量具 Measuring Tools :

皮带张力量测仪 Pull Tension Gauge

量测方法 Measuring Methods :

1. 将产品固定于花岗石上Fix the actuator on granite.
2. 用手拨动皮带并用张力量测仪器，量测皮带振波（张力）
   Use belt tension gauge to test the vibration of the belt.
3. 如照片方式量测 As photo display.
4. 并将测量数据记录于出厂报告书Record it on shipping testing.

7. 检测噪音值 Decibel Testing



使用量具 Measuring Tools :

分贝量测仪器 Decibel Meter

量测方法 Measuring Methods :

1. 将产品置于花岗石上 Fix the actuator on granite.
2. 检测距离 300㎜Decibel meter put at the distance of 300mm.
3. 用马达驱动产品并以高转速量测
   Use motor to drive actuator in high speed.
4. 如照片方式量测 As photo display.
5. 并将测量数据记录于出厂报告书Record it on shipping testing.

8. 测量用花岗石平台 Measuring Tool: Granite Platform



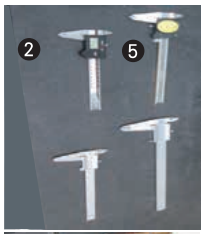


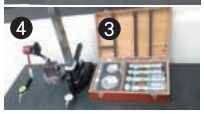
花岗石规格 Granite Specifications :

1. Size:1295㎜*600㎜*140㎜
2. Size:4020㎜*800㎜*300㎜

9. 入料品检量测 Material Tools







使用量具 Measuring Tools :

1. 三次元检测机3D Inspection Testing Machine
2. 电子式游标卡尺、游标卡尺 Electronic vernier caliper, Vernier caliper
3. 内径分离卡、外径分离卡 Inside micrometer, Outside micrometer
4. 高度仪、垂直仪 Altimeter, Vertical meter
5. 电子式水平仪Electronic level meter
6. 百分表、千分表 Dial Gauge 、Dial Indicator
7. 捲尺、钢尺Steel tape 、Steel ruler

量具校验标准 Measuring tools calibration standards:

块规、环规（定期委外校验合格）
Block gauge, ring gauge (regularly qualified)

品检室 QC Room :

1. 运用空调系统控制温、湿度，以确保量测稳定
   Control temperature and humidity to keep the stability of the measurement.
2. 量具定期校验
   Measuring tools calibrate regularly.

技术用语参考资料
Technical Wording Relerence

外部环境的温度定义 External environment temperature definitio

1. 标准温度规范：0° ~ 40°
1.Standard temperature specification: 0° ~ 40°

2. 可特注对应：-20° ~ 80° * 需特注使用特殊油脂。
2.Customized temperature:-20° ~ 80° . special grease requirement need to follow customization process.

滑台平面度与真直度的基准值 Flatness and Straightness Standard

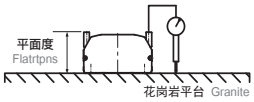
平面度标准：将滑台固定于平面上，本体安装基准面与滑座基准面的平行度小于 0.1mm/M。
Straightness: Fixed the actuator on the measuring plate and measure the parallelism of the datum plane of the carriage and straightness gauge, which should be less than 0.1mm/M.

真直度标准：将滑台固定于平面上，滑座基准面与外部直线基准规的平行度小于 0.1mm/M。
Flatness: Fixed the actuator on the measuring plate and measure the parallelism of the datum plane of the carriage and mounting surface of the actuator, which should be less than 0.1mm/M.

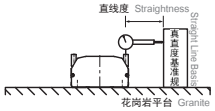
* 上述值为测试环境温度设定于 26° ±2° 的参数。
The values above are for the test environment temperature set at 26° ± 2°.

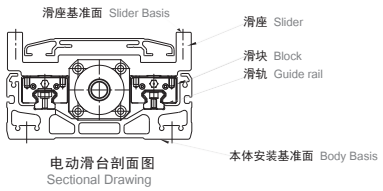
* 上述值为任意位置取 1 米做量测，平面度标准需于 0.1mm 以内。
The values above are for measuring 1 m of any location and the standard of flatness must to be 0.1mm or less.

平面度测试方法
Flatness Testing Method



直线度测试方法
Straightness Testing Method

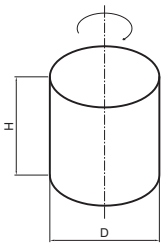




电动滑台剖面图
Sectional Drawing

惯量计算 Equation of Moment of Inertia Calculation

一般情况下，加工冶具及工件并非单一形状，计算起来不容易，计算时往往装分解成几个单一形状的惯量，最后再累加各惯量，以下是几个单一形状物的惯量计算方法。
Usually the load is not a simple form, and the calculation of the moment of inertia is noteasy.As a method,the load is replaced with several factors that resemble a simple form for which themoment of inertia can be calculated. The total of the moment of inertia for these factors is thenobtained.The objects and equations often used for the calculation of the moment of inertia are shownbelow.

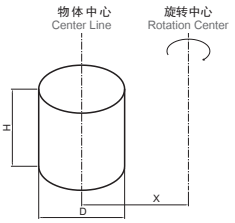


1. 圆柱体力矩惯量计算：
1. Moment or inertia for cylinder :
它有一个旋转的中心，我们作为下列假设：
The moment of inertia (J) for a cylinder having a rotation center such as shown below is given by

$$J=\frac{P\pi D^4h}{32\times980}=\frac{WD^2}{8g}(kgf\cdot cm\cdot sec^2)$$

$$=\frac{mD^2}{8}(Kgm^2)$$

P= 密度 Density (kg / cm^3)
g= 重力加速度 Gravitational acceleration (cm / sec^2)
W=圆柱的重力 Weight of cylinder (kgf)
m= 圆柱的质量 Mass of cylinder (kg)

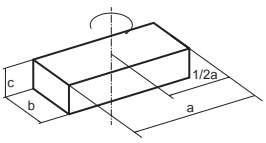


3. 当目标的中心偏离了旋转中心的计算：
3.When the object's center line is offset from the rotation center :
它有一个旋转的中心，我们作为下列假设：
The moment of inertia (J) for a cylinder having a rotation center such as shown below is given by

$$J=\frac{P\pi D^4h}{32}+\frac{P\pi D^4h}{4}=\frac{WD^2}{8g}+\frac{WX^2}{G}(kgf\cdot cm\cdot sec^2)$$

$$=\frac{mD^2}{8}+mX^2(Kgm^2)$$

P= 密度 Density (kg / cm^3)
g= 重力加速度 Gravitational acceleration (cm / sec^2)
W=圆柱的重力Weight of cylinder (kgf)
m= 圆柱的质量 Mass of cylinder (kg)

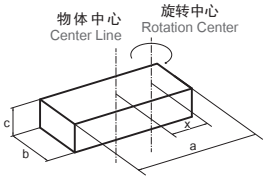


2. 矩形平行六面体力矩惯量计算：
2. Moment of inertia for rectangular parallelepiped :
它有一个旋转的中心，我们作为下列假设：
The moment of inertia (J) for a cylinder having a rotation center such as shown below is given by

$$J=\frac{Pabc(a^2+b^2)}{12}=\frac{W(a^2+b^2)}{12g}(kgf\cdot cm\cdot sec^2)$$

$$=\frac{M(a^2+b^2)}{12}(Kgm^2)$$

P= 密度 Density (kg / cm^3)
g= 重力加速度 Gravitational acceleration (cm / sec^2)
W= 圆柱的重力 Weight of cylinder (kgf)
m= 圆柱的质量 Mass of cylinder (kg)



$$J=\frac{Pabc(a^2+b^2)}{12}+\frac{PabcX^2}{G}$$

$$=\frac{W(a^2+b^2)}{12g}+\frac{WX^2}{G}(kgf\cdot cm\cdot sec^2)$$

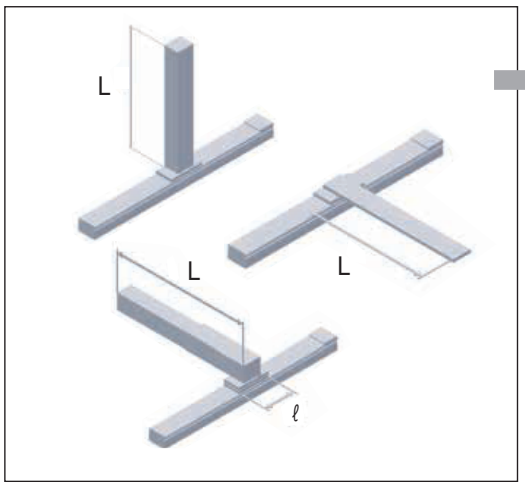
$$=\frac{M(a^2+b^2)}{12}+mX^2(Kgm^2)$$

W= 棱体重力Weight of prism (kgf)
m= 棱体的质量Mass of prism (kg)

负载力臂长度 Overhang Load Length

负载力臂长度是代表滑座可承受伸出的最长距离，从电动滑台上的滑座延伸出去的负载力臂超过容许值时，会造成异常的振动及整定时间增加，所以请务必遵守负载力臂长度的限制。

An overhang load length is specified for a slider-type actuator to indicate the length of overhang (offset) from the actuator. When the length of an object mounted to the slider actuator exceeds this length, it will generate vibration and increase the settling time. So, pay attention to the allowable overhang length as well as the allowable dynamic moment.



滑座长度决定了负载力臂长度。
The allowable overhang load length is determined by the slider length.

负载力臂超过容许值时，会造成异常的振动及整 定时间增加，所以请务必遵守负载力臂长度的限制。
An overhang that exceeds the allowable overnang length will generate vibration and increase settling time.

L/ℓ= 5以内

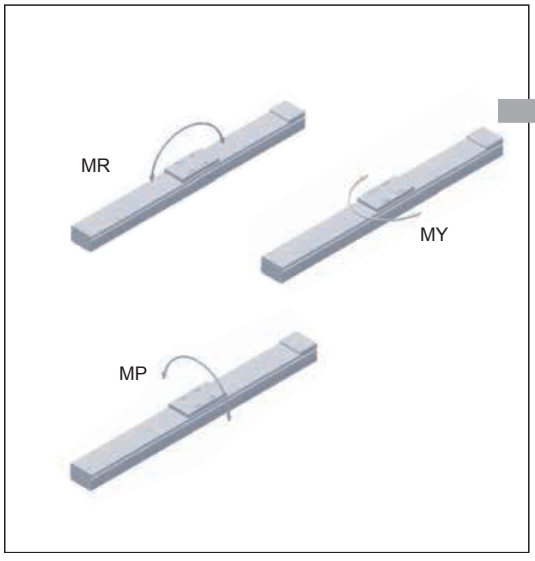
＊搭配CCD做计测试用时。
请尽量控制在3-4之间。
Between 3 to 4 for a cameraequipped

●参考 For example:
L/ℓ=1.2 加工机械 Mechanical Machine
L/ℓ=3 计测机械 Measuring Machine
L/ℓ=5 一般机械（取放作业） Robot

容许负荷力矩 Allowable Dynamic Moment

MP、MY、MR，3 个方向的力矩均不相同。超过容许值得使用状态，线性滑轨的寿命会降低。若无法在容许值内使用，请务必在外部加装容许负荷力 矩是表示依据线性滑轨的走行寿命为基准所计算出滑座上可承受的最大的负荷力矩，不同规格的电动滑台上滑轨所承受的辅助线性滑轨。

The allowable dynamic moment is the maximum offset load exerted on the slider, calculated from the guide service life.
The direction in which force is exerted on the guide is categorized into 3 directions - MP (pitch), MY (yaw), MR (roll) - the tolerance for each of which are set for each actuator. Applying a moment exceeding the allowable value will reduce the service life of the actuator. Use an auxiliary guide when working within or in excess of these tolerances.



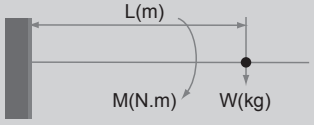
容许负荷力矩是依据线性滑轨的走行寿命为基准所计算出来的。
The allowable dynamic moment is calculated from the service life of the guide.

使用上超过容许值。会大幅降低电动滑台的使用寿命。
Over the moment would reduce the life of actuator.

＊容许负载力矩是依据以下的基准计算出来。
Moment is based on the following basis.

M(N.m)=W(kg)×L(m)×9.8

W(kg)=重心位置的重量
W:Load
L(m)=回转中心到重心的距离
L:Distance from work point to the center of gravity of payload.



滚珠螺杆参考资料
Ball Scerw Intormation

导程精度 Lead Accuracy

精密滚珠螺杆，以 JIS 规格为基准，各特性之定义与容许值如下：

PMI's precision ground baliscrews are controlled in accordance with JIS B 1192.

The permissible values and definitions of each part are shown below.

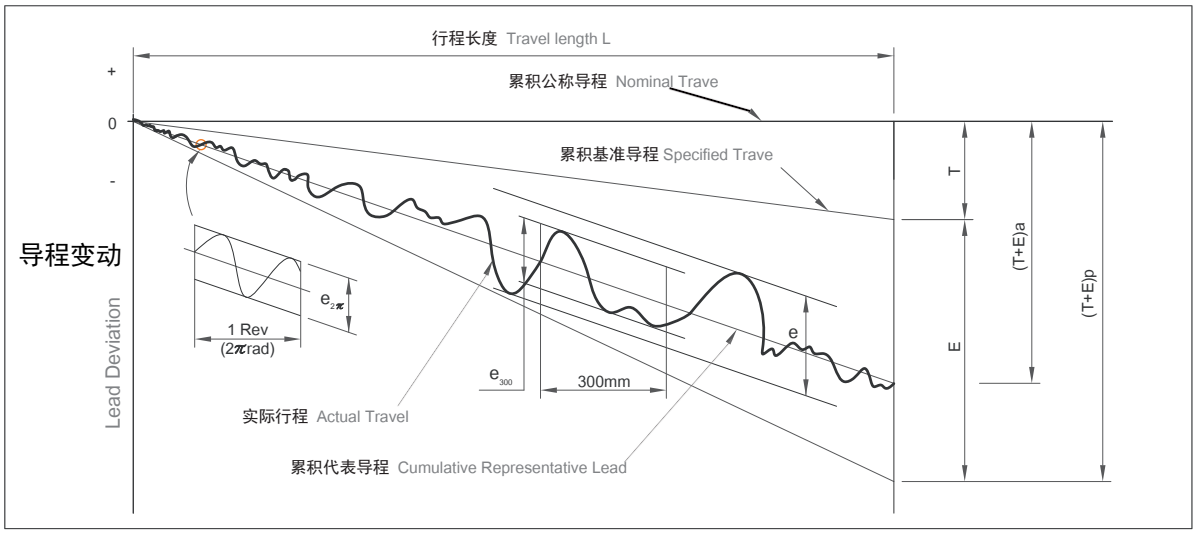


图 1 导程量测曲线 Fif.1 Technical Terms Concerning the Lead

图 Table 1 导程曲线各名词定义 Terms

T + E	累积代表导程 Cumulative Representative Lead	为一直线，代表实际累积导程的倾向。这是以雷射检测后的数据经最小平方值方法算出。 Cumulative representative lead. A straight line representing the tendency of the cumulative actual lead. This is obtained by least square method and measured by laser system.
P		容许值。 Permissible value.
a		实际测量值。 Actual value.
T	累积基准导程 指定目标值 Specified Travel Specify The Target Value	在有效螺纹范围内，累积基准导程减累积公称导程的差谓之。亦即考虑运转时热膨胀、弹性变形等因素，而事先交累积公称导程于正负方向加以补正，并据此製作螺杆，其值依实验或经验而定。 Specified travel. This value is determined by customer and maker as it depends on different application requirements.
E	累积代表导程之误差 Cumulative Representative Lead Error	累积代表导程减累积基准导程的值，此值可有正负值。 Accumulated reference lead deviation. This is allowable deviation of specified travel. It is decided by both of the accuracy grade and effective thread length.
e	变动 Change	在有效螺纹长度范围内最大幅宽。 Total relative lead variation Maximum width of variation over the travel length.
e_{300}		在有效螺纹长度范围内任取 300㎜ 的最大幅宽。 Lead deviation in random 300 mm.
$e_{2\pi}$		螺杆转动1圈的范围内，螺帽对应于任意的迴转角的轴方向移动量的实测值与基准值的差的最大幅宽。 Lead deviation in random 1 revolution 2 π rad.

图 Table 2 累积导程的误差（±E）和变动（e）的容许值 Accumulated reference lead deviation (±E) and total relative variation (e)

GRAND		C0		C1		C2		C3		C4		C5		C6	C7	C8
OVER	UP TO	E	e	E	e	E	e	E	e	E	e	E	e	±0.025	±0.050	±0.120
	315	4	3.5	6	5	5	7	12	8	12	12	23	18	300mm	300mm	300mm
315	400	5	3.5	7	5	7	7	13	10	14	12	25	20			
400	500	6	4	8	5	8	7	15	10	16	12	27	20			
500	630	6	4	9	6	9	7	16	12	18	14	30	23			
630	800	7	5	10	7	10	7	18	13	20	14	35	25			
800	1000	8	6	11	8	11	8	21	15	22	16	40	27			
1000	1250	9	6	13	9	13	9	24	16	25	18	46	30			
1250	1600	11	7	15	10	15	10	29	18	29	20	54	35			
1600	2000			18	11	18	11	35	21	35	22	65	40			
2000	2500			22	12	21	13	41	24	41	25	77	46			
2500	3150			26	15	25	15	50	29	50	29	93	54			
3150	4000			32	18	30	18	62	35	62	35	115	65			
4000	5000					36	21	76	41	76	41	140	77			
5000	6300							85	50	85	50	170	96			
6300	8000							106	62	106	62	213	115			
8000										132	75	265	140			

图 Table 3 精度等级 Accuracy grade

任意 300mm (e_{300}) 以及任意导程 ($e_{2\pi}$)

Variation in random 300mm (e_{300}) and wobble ($e_{2\pi}$)

α_{s22} 单位 Unit：μm

GRAND	C0	C1	C2	C3	C4	C5	C6	C7	C10
JIS	3.5	5		8		18		50	210
TBI	3.5	5	7	8	12	18	25	50	210

$\alpha_{4\pi}$ 单位 Unit：μm

GRAND	C0	C1	C2	C3	C4	C5
JIS	3	4		6		8
TBI	3	4	4	6	8	8

线性滑轨参考资料
Linear Guideway Information

精度标准 Accuracy Standard

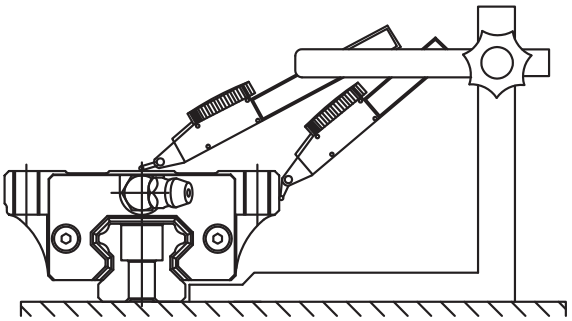
线性滑轨的精度可分为行走平行度、高度（H）及宽度（W2）的尺寸容许误差。滑轨单轴使用或在同平面使用複数轴时，规范各个滑块组合高度与宽度的成对相互差。各型号的精度分为普通级（N）、高级（H）、精密级（P）、超精密级（SP）与超高精密级（UP）五个等级。

The accuracy of linear guideway includes the dimensional tolerance of height, width, and the running accuracy of the carriage on the rail. The standard of the dimension difference is built for two or more carriages on a rail or a number of rails are used on the same plane. The accuracy of linear guideway is divided into 5 classes, normal grade (N), high precision (H), precision (P), super precision (SP), and ultra precision (UP).

行走平行度 Running Parallelism

是指将滑轨以螺栓固定在基面上，使滑块在滑轨全长上运行时，滑块与滑轨基准面之间的平行误差，如图（1）所示。

The running accuracy is the deviation of parallelism between the reference surface of carriage and reference surface of rail when carriage moving over the entire length of rail.



（图1）行走平行度的量测

(fig.1) Flatness measurement

行走平行度的量测高度的成对相互差（△H） Height Difference (△ H)

是指组合在同平面上的各个滑块高度尺寸 (H) 的最大值与最小值之差。

The height difference (△ H) means the height difference among carriages installed on the same plane.

宽度的成对相互差（△W2） Width Difference (△ W2)

是指装在单支滑轨上的每个滑块与滑轨基准面之间的宽度（W2）尺寸的最大值与最小值之差。

The width difference (W2) means the width difference among carriages installed on a rail.

注意事项：

Note :

1. 同平面上 2 轴以上配对使用时，宽度（W2）的尺寸对容许误差与成对相互差（△ W2）只适用于基准侧，而基准侧滑轨的製造号码末尾，印有〝MR〞标记，但是普通级（N）滑轨没有此记号。

1.When it is a application of two axis or more on the same plane., the tolerance of width (W2) to pairs tolerance (W2) are only suitable to master side. The end of master linear guide is marked “MR” sign but the mark MR will not show on the N-class linear rail.

2. 精度测定值是以滑块中心点或中心部的平均值为基准。

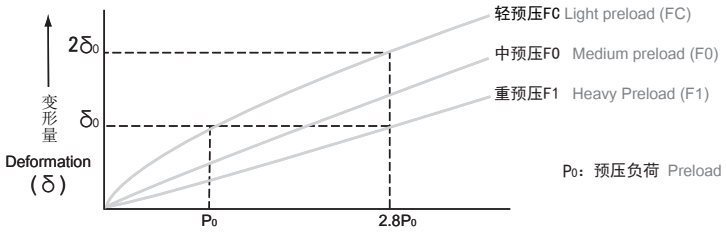
2.The measured precision value is based on the average value measured from the center of block.

预压与刚性 Preload and Stiffness

线性滑轨可以藉由施加预压来提高刚性。如图（2）所示，预压的效果可保持外部负荷增大到预压负荷的 2.8 倍，即提高 2.8 倍的刚性值，而预压是利用增加钢珠的直径，使钢珠与滚动面之间产生负项间隙，预先施于内部负荷，所以在进行寿命计算时，必须将其预压负荷考虑进去。

The rigidity of a linear guideway could be enhanced by increasing the preload. As shown as figure below, the load could be raised up to 2.8 times when the preload applied.

The preload is represented by negative clearance resulting from the increase of rolling element diameter. Therefore, the preload should be considered in service life calculation.



（图 2）刚

(fig.2) Stiffness

线性滑轨的使用，应根据不同的使用条件来选择最适合的预压等级，选用的基准请参照以下资料。

Selecting proper preload from table below to adapt the specific application and condition.

线性滑轨的预压选用基

Preload standard of linear guide.

预压等级 Preload	适用条件 Conditions	应用例 Application
轻预压 Light Preload (FC)	●负荷方向一定，振动、衝击力小，2 轴并列使用的装置。 The loading direction is fixed, vibration and impact are light, and two axes are applied in parallel. ●精度要求不高，但要求滑动阻力小的设备。 High precision is not required, and the low frictional resistance is needed.	射束焊接机械、装订机械、自动包装机、一般工业机械的XY轴、自动门窗加工机、銲接机、熔断机、工具交换装置、各种材料供给装置。 Welding machine, binding machine, auto packing machine, XY axis of ordinary industrial machine, material handling equipments.
中预压 Medium Preload (F0)	●有悬臂负荷或力矩作用的装置。 Overhang application with a moment load. ●单轴使用的设备。 Applied in one-axis configuration. ●轻负荷且要求高精度的设备。 The need of light preload and nigh precision.	磨床工作台进给轴、自动涂装机、工业用机器人、各种高速材料供给装置，NC车床、一般工业机械的Z轴、印刷线路板的打孔机、电火花加工机、测定器、精密 XY 平台。 Z axis of industrial machines, EDM, precision XY table, PC board drilling machine, industrial robot, NC lathe, measuring equipment, grinding machine, auto painting machine.
重预压 Heavy Preload (F1)	●要求高刚性，且振动、衝击力大的设备。 Machine is subjected to vibration and impact, and high rigidity rquired. ●高负荷、重切削的机床等。 Application of heavy load or heavy cutting.	机械加工中心、NC 车床、磨床的砂轮进给轴、铣床、立式或横式镗床、刀具导向部、工作机械的 Z 轴。 Machine center, NC lathe, grinding machine, milling machine, Z axis of boring machine and machine tools.

Information Collection Form

Information Collection Form - Type A Standard Product Modification Date:			
Dealer		Customer	
Contacts		Contacts	
Tel		Tel	
Email		Email	
Category	☐ Japanese electric sliding table ☐ European standard electric slide table ☐ European standard electric push rod ☐ Other		

1. Requirements for single cylinder selection parameters:

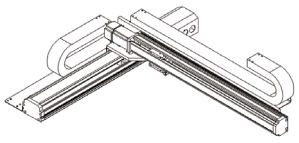
Customer requirements	Electric cylinder model		
	Load: kg		
	Operating speed: mm/min		
	Repetitive positioning accuracy: mm		
	Stroke: mm		
	Usage environment: ☐ dust-free ☐ ordinary ☐ harsh		
	1. Electric sliding table		
	☐	Non standard motor mounting seat	
	☐	Non standard base installation hole	
	☐	Non standard itinerary	
	☐	Non standard slider split	
	☐	Double slider	
	☐	Motor folded down	
	☐	External belt pulley reduction mechanism	
	☐	Add a pin	
	☐	Non standard keyway opening	
	☐	Electric cylinder internal lock	
	☐	Other	
	2.Linear actuator		
	☐	Non standard motor mounting seat	
	☐	Thread modification of push rod head	
	☐	Add CA installation base	
	☐	Add CB mounting bracket	
	☐	Head with fisheye bearings	
	☐	Other	
	Remarks (Other Requirements)		
	Review	Date:	

Information Collection Form - Type B Standard Product Modification Date:

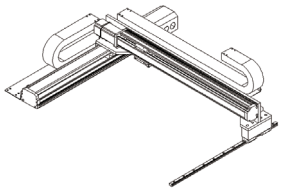
Dealer		Customer	
Contacts		Contacts	
Tel		Tel	
Email		Email	
Category	□ XYZ module □ Other		

1. Requirements for module selection parameters:

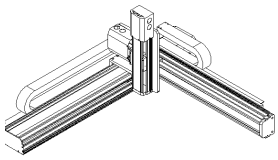
Customer requirements	Load： kg	Remarks (other requirements):
	Operating speed: mm/min	
	Repetitive positioning accuracy: mm	
	X-axis stroke： mm	X-axis model：
	Y-axis stroke： mm	Y-axis model：
	Z-axis stroke： mm	Y-axis model：
	Usage environment: □ dust-free □ ordinary □ harsh	



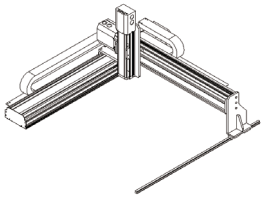
□ 1. Cantilever type



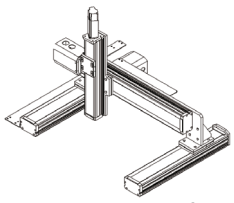
□ 2. Longmen type (auxiliary rail)



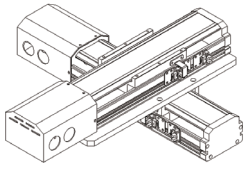
□ 3. Cantilever type



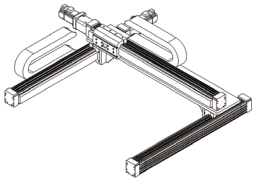
□ 4.Longmen type (auxiliary rail)



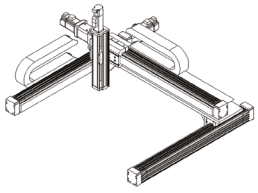
□ 5. Longmen type (false axis)



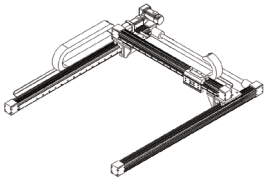
□ 6. Cross shaped



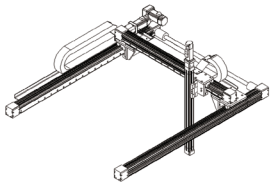
□ 7. Longmen type (false axis)



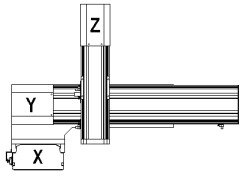
□ 8. Longmen type (false axis)



□ 9. Longmen type (simultaneous movement)



□ 10. Longmen type (simultaneous movement)



Please refer to the above figure for the naming of X/Y/Z axes

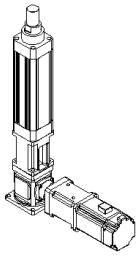
The above picture is for customer reference. Please refer to our company's catalog for specific selection methods!

Review:	Date:

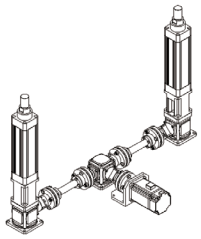
Information Collection Form

Information Collection Form - Scheme for Class C Synchronous Mechanisms		Date	
Dealer		Customer	
Contacts		Contacts	
Tel		Tel	
Email		Email	
Category	□ Push rod lifting mechanism □ Sliding table lifting mechanism □ Other		
2. Application of lifting mechanism (electric push rod):			
Form of exercise	□ Single axis lifting □ Two axes moving together □ Four axis simultaneous movement		
	□ Other		
	Center span of lifting mechanism:_____		
Using a motor	□ Servo motor □ Other	*Motor specifications and brand: Mitsubishi 1000W	
	*Motor power	*Installing brakes: □ Yes □ No	

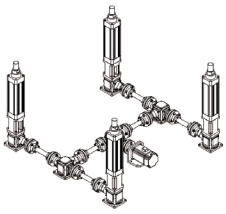
1. Push rod form



Single axis lifting

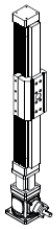


Two axes moving together

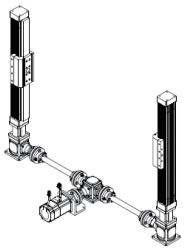


Four axis simultaneous movement

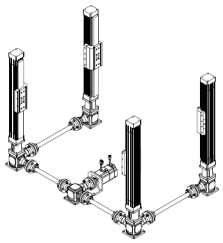
2. Sliding table form



Single axis lifting



Two axes moving together



Four axis simultaneous movement

	*Lifting and lowering stroke:		
	*Institutional load:		
	*Repetitive positioning accuracy:		
	*Span L:		
	*Span W:		
	Review	Date:	

Linear Motor Information Collection Table

		Number	
Enterprise Name		Contacts	
Enterprise address		zip code	
Tel		Fax	
URL		Email	
Project name		Enterprise size/nature	
Sector		Main products	

Project requirements

Use demand	Effective travel distance (mm)		
	Operating load (kg)		
	Position repeatability accuracy (mm)		
	Movement distance (mm)		
	Exercise time (s)		
	Speed (mm/s)		
	Acceleration (m/s/s)		
	Stay time (s)		
	Walking parallelism:		
	X/Y/Z three-axis eccentricity between load and linear motor center: X-axis: mm; Y-axis: mm; Z-axis: mm		
	Other environmental requirements (such as temperature, dust, oil stains, etc.)		
	Installation method of linear motor □ Horizontal □ Inverted □ Vertical		
	Other		
	Review:		Date:
Position feedback	□ Grating □ Magnetic Grating □ Other		
Stator series	□ Tablet □ U-shaped		
Note			
	Review:		Date:

Information Collection Table for Torque Motor (DD Motor)

		Number	
Enterprise Name		Contacts	
Enterprise address		zip code	
Tel		Fax	
URL		Email	
Project name		Enterprise size/nature	
Sector		Main products	

Project requirements

Use demand	Rotary disc diameter (mm)	
	Operating load (including turntable mass) (kg)	
	Rotation angle (degrees)	
	Exercise time (s)	
	Acceleration (m/s/s)	
	Stay time (s)	
	Installation method	□ Horizontal □ Inverted □ Vertical
Driver	□ Pulse type □ EtherCAT bus type □ Cable length	
Note		
	Review:	Date:

For more detailed product information, please visit the company website www.sheleprofit.com or call 0512-65912006

Information Collection Form for Hollow Rotating Platform

		Number	
Enterprise Name		Contacts	
Enterprise address		zip code	
Tel		Fax	
URL		Email	
Project name		Enterprise size/nature	
Sector		Main products	

Project requirements

use demand	Rotary disc diameter (mm)	
	Operating load (including turntable mass) (kg)	
	Rotation angle (degrees)	
	Exercise time (s)	
	Acceleration (m/s/s))	
	Stay time (s)	
	Installation method	□ Horizontal □ Inverted □ Vertical
Note		
	Review:	Date:

Electric Cylinder Application Requirements Table

		Number	
Enterprise Name		Contacts	
Enterprise address		zip code	
Tel		Fax	
URL		Email	
Project name		Enterprise size/nature	
Sector		Main products	

Project requirements

Parameters:	1. Thrust N
	2、Stroke mm
	3、Speed mm/s
	4、4. Push rod position accuracy requirement: repeated positioning accuracy mm
Mechanical interface:	5、Installation and fixing method of cylinder body: □ Front flange □ Rear flange □ Double ear shaft □ Base □ Front and rear hinge □ Side hole □ Front pull rod
	6、Installation direction of cylinder block: □ Horizontal □ Vertical upward □ Vertical downward □ Fixed angle tilt (degrees) □ Variable angle tilt (degrees to degrees)
	7、Electric cylinder force output direction: □ pull □ press □ bi-directional (pull and press)
	8、Does the servo motor require electromagnetic braking: □ Yes □ No
	9、Rod end mechanical connection method: □ Internal thread □ External thread □ Universal ball joint □ Fish eye joint □ Floating joint
	10、Do we need an additional guidance mechanism? □ Required □ Not required
	11、Does the cylinder body need to be equipped with a proximity switch? □ Required (quantity) □ Not required
	12. Is there a requirement for compact external dimensions of electric cylinders? □ Yes (axial mm, cross-sectional mm, others) □ No
	13. Does the push rod need to withstand significant lateral forces? □ Yes, the lateral force is approximately N □ No
	14. Do you still need the following options::
	□ Screw pre tightening mechanism □ Push rod dust cover □ Built in pressure sensor □ Manual drive device □ Food grade coating □ Stainless steel shell
	□ Linear displacement sensor (accuracy, output signal: □ voltage, □ current, □ digital signal) □ Other
Servo electrical interface:	15. Servo motor: □ direct connection □ folding type
	16. Servo motor position feedback form (whether using an internal motor or an external motor, please provide this information):
	17. Do you need to use a designated brand of driver or external servo motor: □ Yes, brand is, □ No
	18. Are there any special work environment requirements? □ Yes (high and low temperature to degree vibration g mechanical impact g) □ No
	19. Is there a requirement for long-term, continuous, high-frequency, and reciprocating motion?
	□ Yes (one full cycle travel mm, frequency Hz, working hours per day, working days per year, required lifespan year) □ No
	20. Other requirements:
Note	

	Review:	Date: