



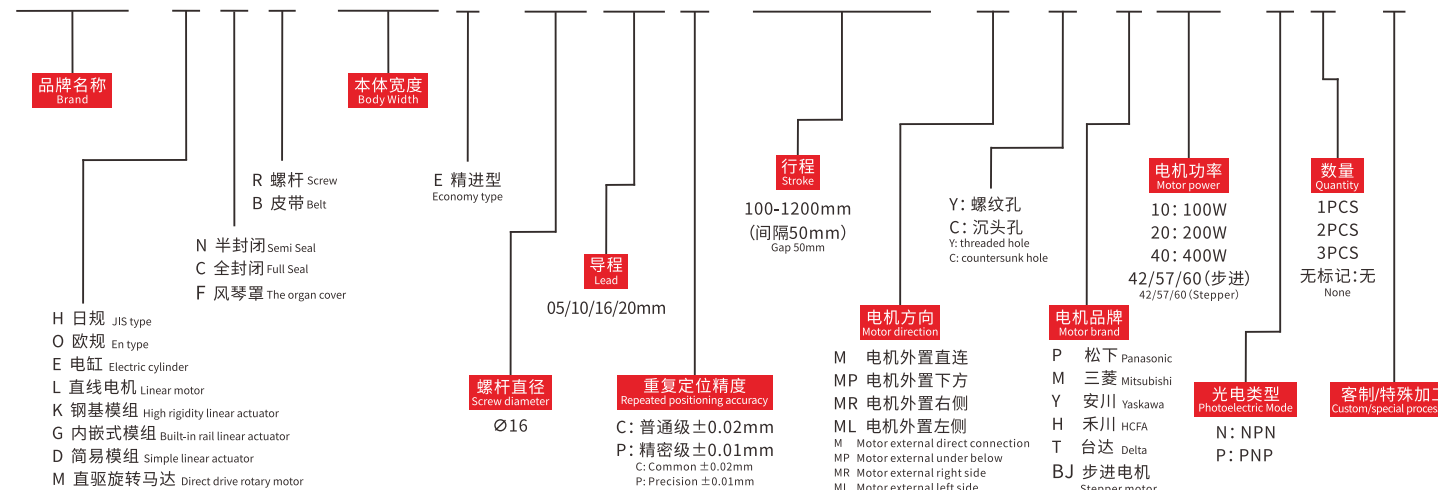
重复精度
Repeat Accuracy
±0.02
mm

此图仅供参考, 出货规格详见尺寸图面
This drawing is for reference only, Please refer to the size drawing for shipment specifications.

- 最大行程 Max stroke: 1200mm
- 最高速度 Max speed: 1000mm/s
- 马达容量 Motor output: 200W
- 滚珠螺杆 Ball screw: Ø16mm
- 直线滑轨 Linear guide: 15X12.5-2支

型号表达方式 Ordering method

TPA-HNR-120E-1610C-L1200-M-Y-P20-N3-F



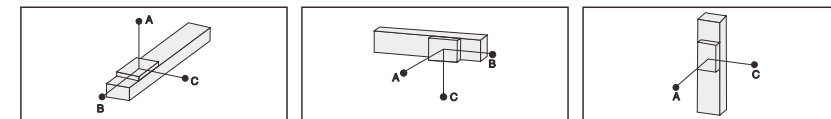
产品性能参数如下 Product performance parameters are as follows

电机功率 (W) Motor power (W)	200				
额定扭矩 (N.M) Rated torque (N.M)	0.64				
重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.02				
滚珠螺杆导程 (mm) Ball screw lead (mm)	5	10	16	20	
最高速度 (mm/s) Maximum speed (mm/s)	250	500	800	1000	
电机额定转速 (RPM) Rated speed of motor (RPM)	3000				
最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	60	30	23	25
	垂直使用 (kg) Vertical (kg)	27	12	10	7
定格推力 (N) Rated thrust (N)	615	307	192	154	
标准行程 (mm) Stroke pitch (mm)	100~1200mm/50 间隔 50 mm Pitch				
滚珠螺杆外径 (mm) Ball screw Ø (mm)	Ø16				
基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1				
安装面精度要求 (mm) Accuracy requirements of installation surface (mm)	C级<0.05; P级<0.02 C level<0.05 P level<0.02				
使用环境 Operating environment	0~40°C, 85%RH (无凝结) No condensation				

注1: 使用非上述功率电机时请依据实际参数推算。
Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.

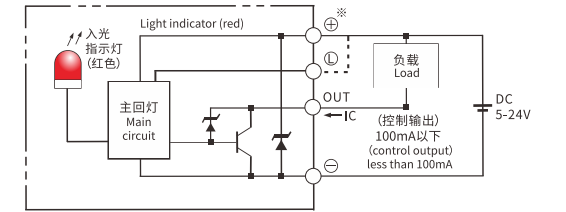
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be reduced appropriately. Generally, the speed should be reduced by 10~15% for every 100mm increase of the screw.

容许负载力矩表 N.m Allowable overhang

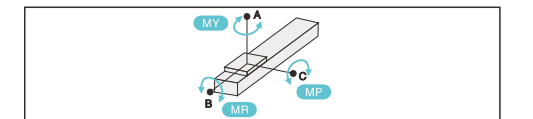


水平安装 Horizontal installation (单位Unit:mm)				侧面安装 Side mounting (单位Unit:mm)				垂直安装 Vertical installation (单位Unit:mm)				
导程 Lead	A	B	C	导程 Lead	A	B	C	导程 Lead	A	B	C	
5	30kg	882	65	78	25kg	100	84	1102	5	5kg	544	544
	40kg	606	43	51	35kg	63	52	725		8kg	341	341
	50kg	437	29	35	50kg	35	29	433	10	12kg	227	227
10	15kg	875	138	157	10kg	250	221	1311		4kg	606	606
	25kg	485	73	83	20kg	110	97	633		8kg	303	303
	30kg	386	56	64	30kg	64	56	385	16	-	-	-
16	3kg	1644	888	770	2kg	1182	1364	2512		2kg	961	961
	5kg	984	510	448	5kg	448	510	976	20	3kg	639	639
	-	-	-	-	-	-	-	-		-	-	-
20	5kg	1160	384	386	5kg	317	316	955		-	-	-
	10kg	561	180	181	12kg	147	144	455		-	-	-
	18kg	288	88	89	18kg	89	88	288		-	-	-

感应器连接图<原点及端点> Sensor layout



静态容许负载惯量 Static loading moment



位置 Position	惯量 Inertia (单位Unit:N.m)
MY	150
MP	150
MR	130

*力矩表所表示的数据, 代表重心。
The torque value in the chart indicate the center of gravity.

*符合型录规范的正常试用下, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

*倒吊使用无法套用标准规范, 如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.

搭配伺服马达一览表 Suitable motor brand

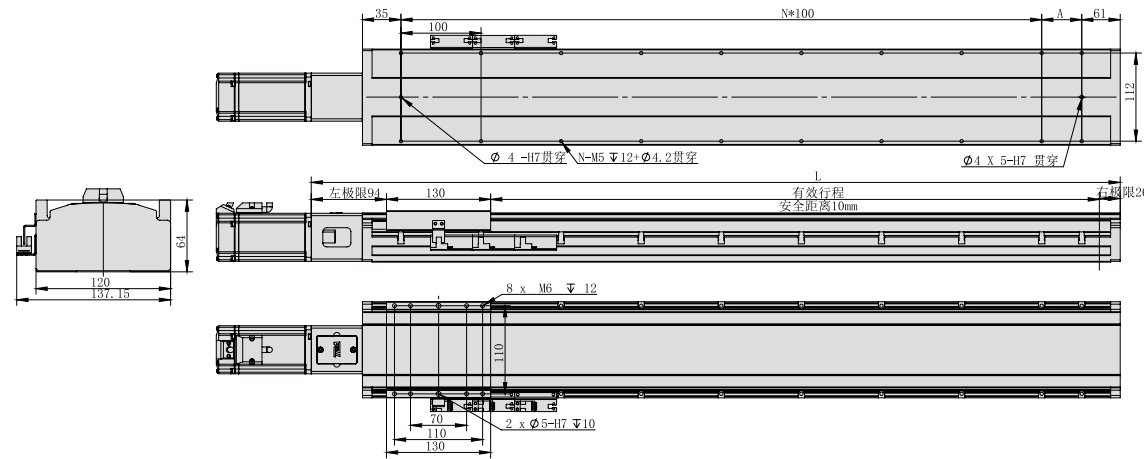
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	200	220	ECMA-C20807ES	ASD-B20721-B



电机外置直连/电机外置下方
Motor external direct connection/Motor external below

M 电机外置直连 Motor external direct connection

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
KG	4.2	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9	9.3	9.6	9.9	10.2	10.5	10.8

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左侧/电机外置右侧
Motor external left side / Motor external right side

ML 电机外置左侧 Motor external left side

单位:Unit: mm



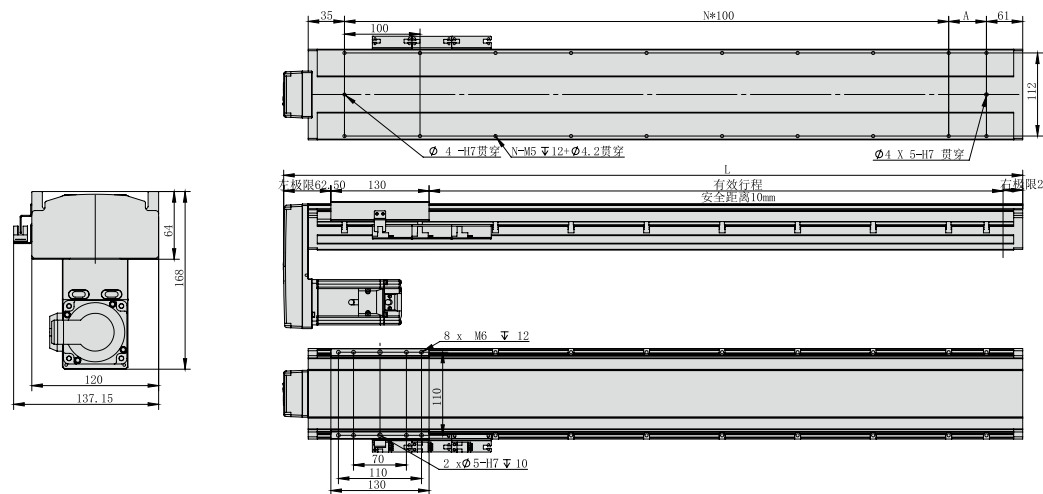
*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	328.5	378.5	428.5	478.5	528.5	578.5	628.5	678.5	728.5	778.5	828.5	878.5	928.5	978.5	1028.5	1078.5	1128.5	1178.5	1228.5	1278.5	1328.5	1378.5	1428.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
KG	4.2	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9	9.3	9.6	9.9	10.2	10.5	10.8

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MP 电机外置下方 Motor external below

单位:Unit: mm



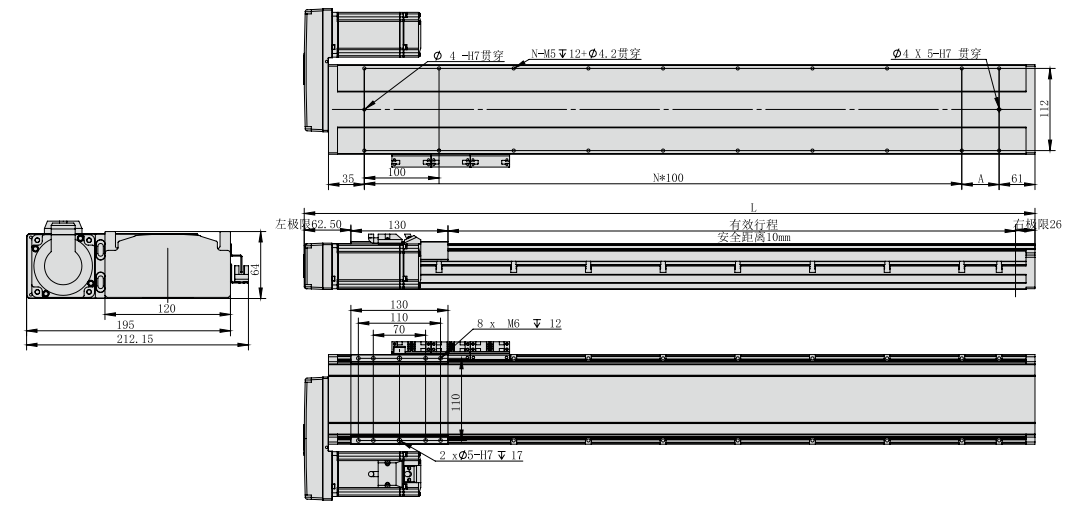
*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	328.5	378.5	428.5	478.5	528.5	578.5	628.5	678.5	728.5	778.5	828.5	878.5	928.5	978.5	1028.5	1078.5	1128.5	1178.5	1228.5	1278.5	1328.5	1378.5	1428.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
KG	4.2	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9	9.3	9.6	9.9	10.2	10.5	10.8

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MR 电机外置右侧 Motor external right side

单位:Unit: mm



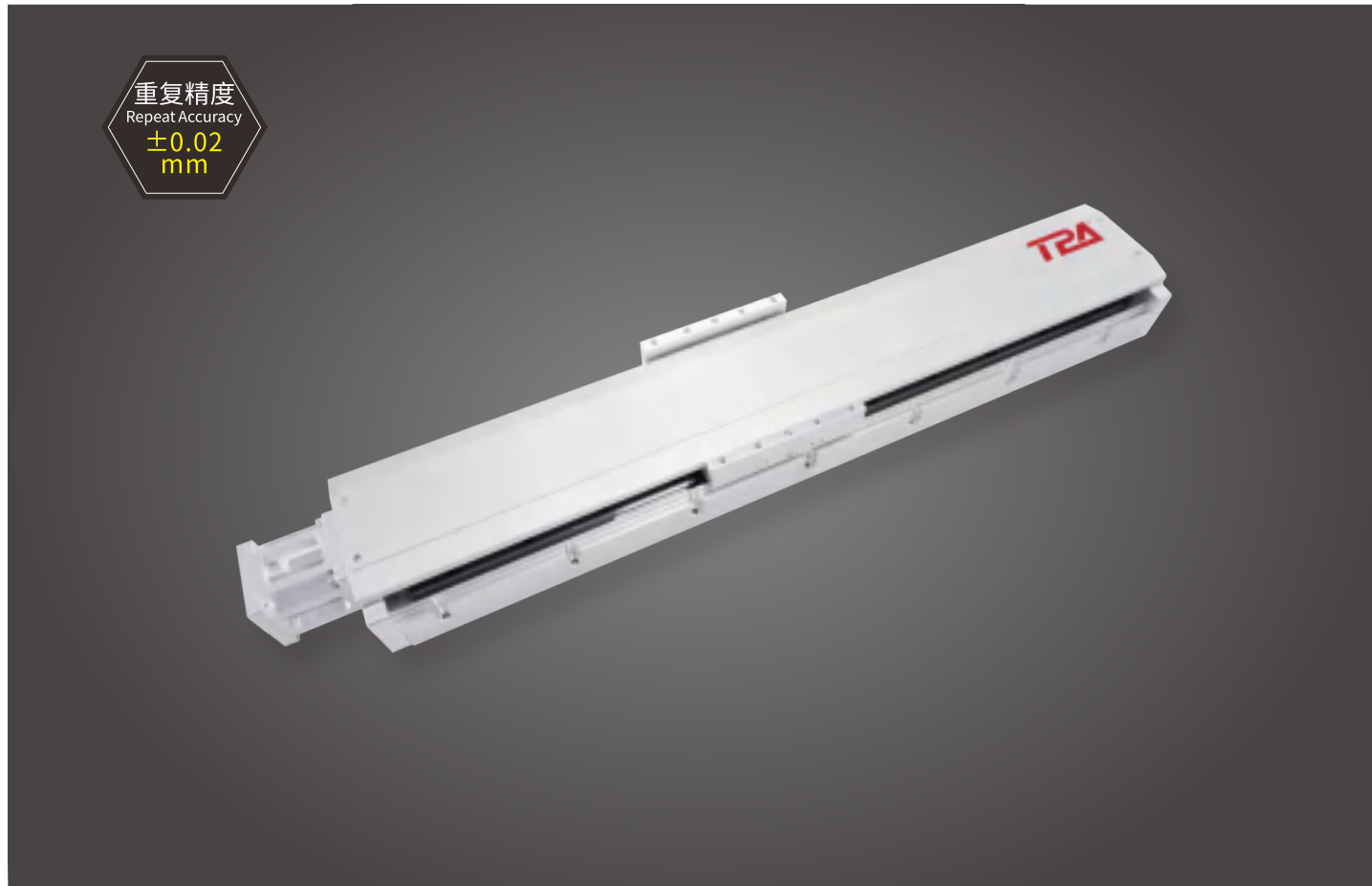
*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	328.5	378.5	428.5	478.5	528.5	578.5	628.5	678.5	728.5	778.5	828.5	878.5	928.5	978.5	1028.5	1078.5	1128.5	1178.5	1228.5	1278.5	1328.5	1378.5	1428.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
KG	4.2	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9	9.3	9.6	9.9	10.2	10.5	10.8

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR

参考资料
Reference data

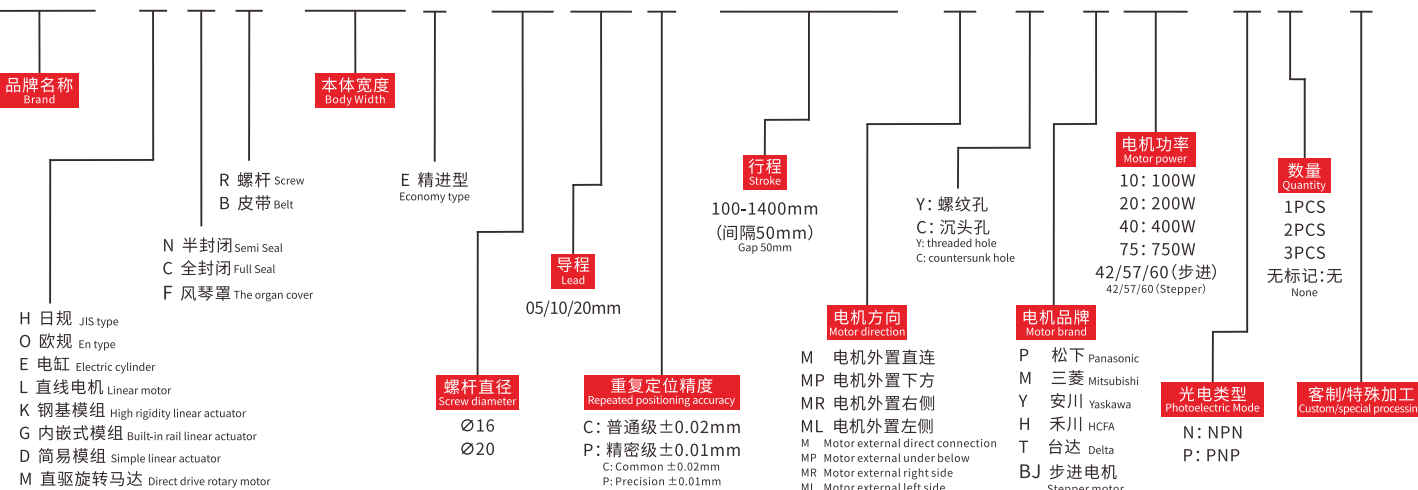


此图仅供参考, 出货规格详见尺寸图面
This drawing is for reference only, Please refer to the size drawing for shipment specifications.

最大行程 Max stroke 1400mm | 最高速度 Max speed 1000mm/s | 马达容量 Motor output 400W | 滚珠螺杆 Ball screw Ø20mm | 直线滑轨 Linear guide 15X12.5-2支

型号表达方式 Ordering method

TPA-HNR-136E-2010C-L1400-M-Y-P40-N3-F

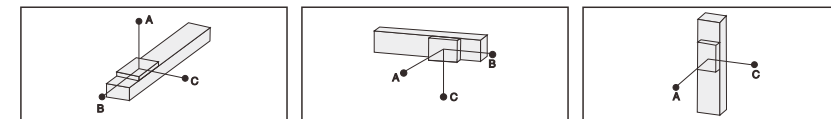


产品性能参数如下 Product performance parameters are as follows

电机功率 (W) Motor power (W)	400		
额定扭矩 (N.M) Rated torque (N.M)	1.3		
重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.02		
滚珠螺杆导程 (mm) Ball screw lead (mm)	5	10	20
最高速度 (mm/s) Maximum speed (mm/s)	250	500	1000
电机额定转速 (RPM) Rated speed of motor (RPM)	3000		
最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	70	35
	垂直使用 (kg) Vertical (kg)	31	16
定格推力 (N) Rated thrust (N)	1250	625	312
标准行程 (mm) Stroke pitch (mm)	100~1400mm/50 间隔 50 mm Pitch		
滚珠螺杆外径 (mm) Ball screw Ø (mm)	Ø20		
基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1		
安装面精度要求 (mm) Accuracy requirements of installation surface (mm)	C级<0.05; P级<0.02 C Level<0.05 P Level<0.02		
使用环境 Operating environment	0~40°C, 85%RH (无凝结) No condensation		

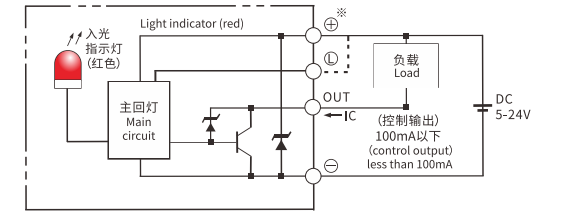
注1: 使用非上述功率电机时请依据实际参数推算。
Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be reduced appropriately. Generally, the speed should be reduced by 10~15% for every 100mm increase of the screw.

容许负载力矩表 N.m Allowable overhang



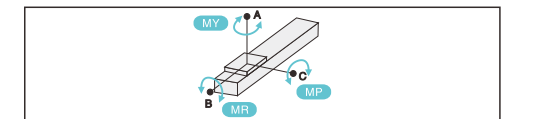
水平安装 Horizontal installation (单位Unit:mm)				侧面安装 Side mounting (单位Unit:mm)				垂直安装 Vertical installation (单位Unit:mm)							
导程 Lead	重量 Weight	A	B	导程 Lead	重量 Weight	A	B	导程 Lead	重量 Weight	A	C				
5	60kg	2515	242	232	5	55kg	257	269	2883	5	15kg	1118	1118		
	80kg	1811	172	164		5	75kg	178	186		2000	5	22kg	770	770
	95kg	1537	138	133			10	95kg	133		138		1537	10	27kg
10	30kg	2727	470	430	10	35kg		363	395	2368	10	10kg	1500		1500
	50kg	1577	266	242		10	55kg	218	238	1445		10	14kg	1072	1072
	75kg	1004	164	150			20	75kg	150	164			1004	20	18kg
20	10kg	2304	1222	1028	20	12kg		854	1019	2552	20	4kg	2980		2980
	22kg	1443	540	451		20	20kg	500	596	1588		20	7kg	1700	1700
	35kg	1005	324	271			20	35kg	271	324			1005	20	-

传感器连接图<原点及端点> Sensor layout



- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR
- 参考资料 Reference data

静态容许负载惯量 Static loading moment



点 Point	惯量 Inertia (单位Unit:N.m)
MY	551
MP	552
MR	485

*力矩表所表示的数据, 代表重心。
The torque value in the chart indicate the center of gravity.
*符合型录规范的正常试用下, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
*倒吊使用无法套用标准规范, 如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.

搭配伺服马达一览表 Suitable motor brand

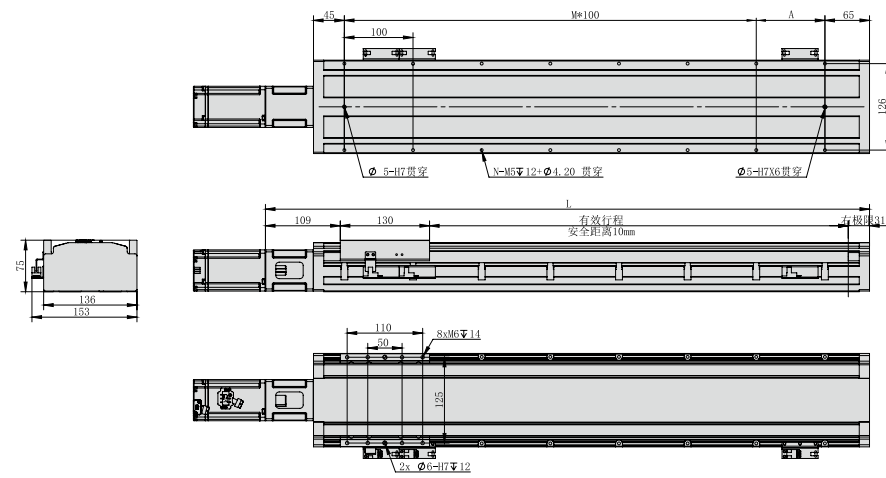
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	200	220	ECMA-C20807ES	ASD-B20721-B



电机外置直连/电机外置下方
Motor external direct connection/Motor external below

M 电机外置直连 Motor external direct connection

单位:Unit: mm



*不含电机重量。*Motor weight not included.

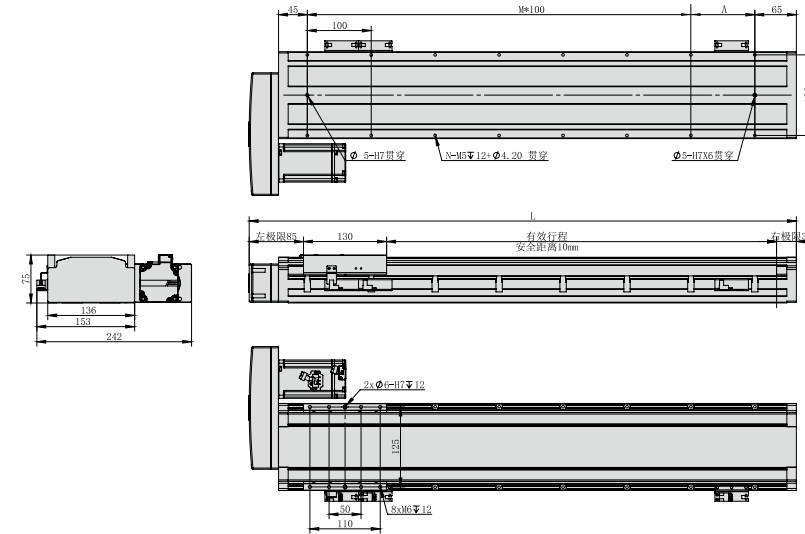
有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
L	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
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	32	32
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	14	14
KG	5	5.3	5.6	5.9	6.2	6.5	6.8	7.1	7.4	7.7	8	8.3	8.6	8.9	9.2	9.5	9.8	10.1	10.4	10.7	11	11.3	11.6	11.9	12.2	12.5	12.8

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左侧/电机外置右侧
Motor external left side / Motor external right side

ML 电机外置左侧 Motor external left side

单位:Unit: mm



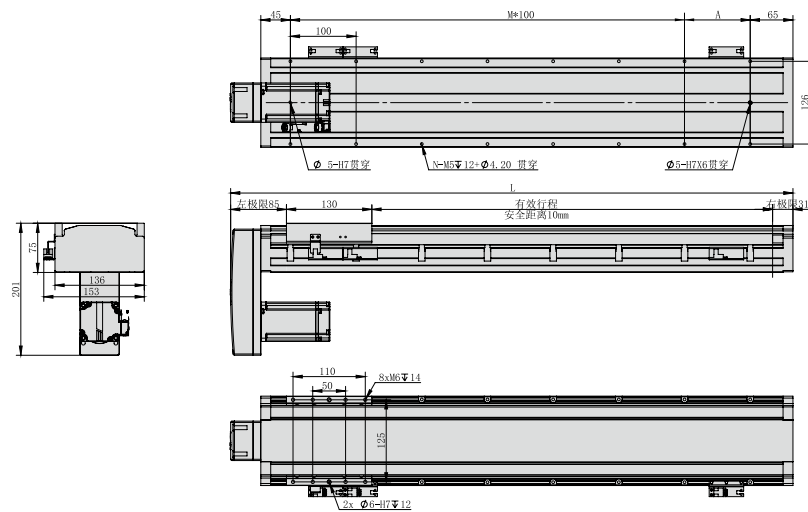
*不含电机重量。*Motor weight not included.

有效行程 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	1400
L	356	406	456	506	556	606	656	706	756	806	856	906	956	1006	1056	1106	1156	1206	1256	1306	1356	1406	1456	1506	1556	1606	1656
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	50	100
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	32	32
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	14	14
KG	5	5.3	5.6	5.9	6.2	6.5	6.8	7.1	7.4	7.7	8	8.3	8.6	8.9	9.2	9.5	9.8	10.1	10.4	10.7	11	11.3	11.6	11.9	12.2	12.5	12.8

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MP 电机外置下方 Motor external below

单位:Unit: mm



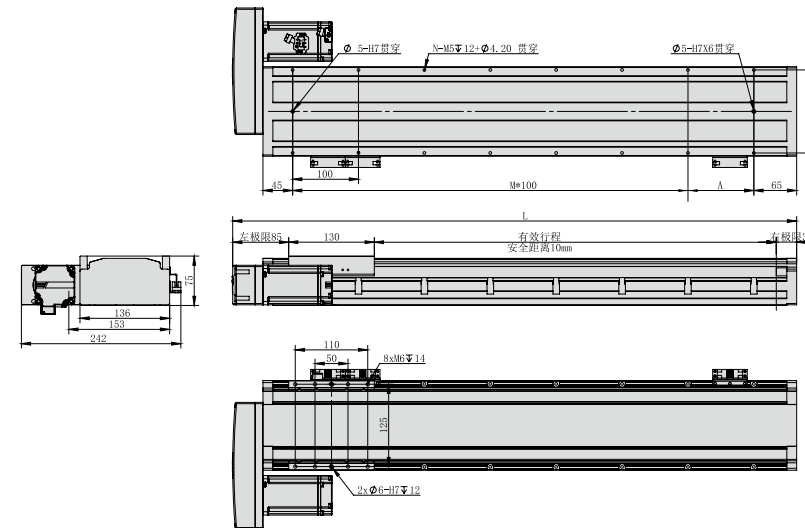
*不含电机重量。*Motor weight not included.

有效行程 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	1400
L	356	406	456	506	556	606	656	706	756	806	856	906	956	1006	1056	1106	1156	1206	1256	1306	1356	1406	1456	1506	1556	1606	1656
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	50	100
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	32	32
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	14	14
KG	5	5.3	5.6	5.9	6.2	6.5	6.8	7.1	7.4	7.7	8	8.3	8.6	8.9	9.2	9.5	9.8	10.1	10.4	10.7	11	11.3	11.6	11.9	12.2	12.5	12.8

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MR 电机外置右侧 Motor external right side

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 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	1400
L	356	406	456	506	556	606	656	706	756	806	856	906	956	1006	1056	1106	1156	1206	1256	1306	1356	1406	1456	1506	1556	1606	1656
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	50	100
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	32	32
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	14	14
KG	5	5.3	5.6	5.9	6.2	6.5	6.8	7.1	7.4	7.7	8	8.3	8.6	8.9	9.2	9.5	9.8	10.1	10.4	10.7	11	11.3	11.6	11.9	12.2	12.5	12.8

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR

参考资料
Reference data



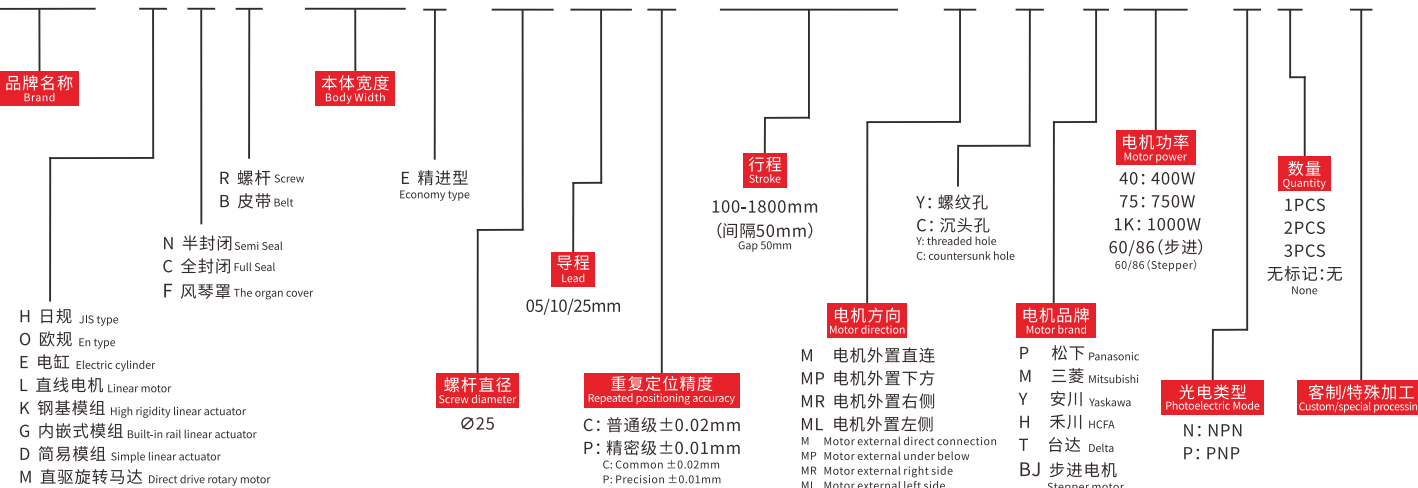
重复精度
Repeat Accuracy
±0.02 mm

此图仅供参考, 出货规格详见尺寸图面
This drawing is for reference only, Please refer to the size drawing for shipment specifications.

- 最大行程 Max stroke: 1800mm
- 最高速度 Max speed: 1250mm/s
- 马达容量 Motor output: 750W
- 滚珠螺杆 Ball screw: Ø25mm
- 直线滑轨 Linear guide: 20X15.5-2支

型号表达方式 Ordering method

TPA-HNR-165E-2510C-L1800-M-Y-P75-N3-F

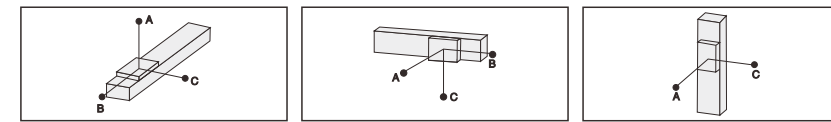


产品性能参数如下 Product performance parameters are as follows

电机功率 (W) Motor power (W)	750			
额定扭矩 (N.M) Rated torque (N.M)	2.4			
重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.02			
滚珠螺杆导程 (mm) Ball screw lead (mm)	5	10	25	
最高速度 (mm/s) Maximum speed (mm/s)	250	500	1250	
电机额定转速 (RPM) Rated speed of motor (RPM)	3000			
最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	130	110	44
	垂直使用 (kg) Vertical (kg)	58	48	19
定格推力 (N) Rated thrust (N)	2306	1153	577	
标准行程 (mm) Stroke pitch (mm)	100~1800mm/50 间隔 50 mm Pitch			
滚珠螺杆外径 (mm) Ball screw Ø (mm)	Ø25			
基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1			
安装面精度要求 (mm) Accuracy requirements of installation surface (mm)	C级<0.05; P级<0.02 C Level<0.05 P Level<0.02			
使用环境 Operating environment	0~40°C, 85%RH (无凝结) No condensation			

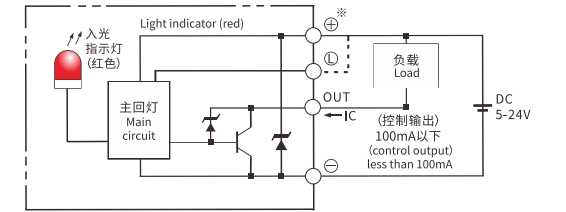
注1: 使用非上述功率电机时请依据实际参数推算。
Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be reduced appropriately. Generally, the speed should be reduced by 10~15% for every 100mm increase of the screw.

容许负载力矩表 N.m Allowable overhang



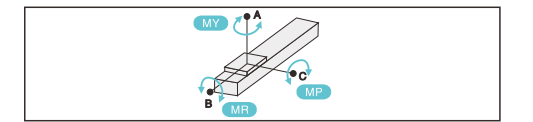
水平安装 Horizontal installation (单位Unit:mm)				侧面安装 Side mounting (单位Unit:mm)				垂直安装 Vertical installation (单位Unit:mm)							
导程 Lead	重量 Weight	A	B	C	导程 Lead	重量 Weight	A	B	C	导程 Lead	重量 Weight	A	C		
5	70kg	3235	349	408	5	75kg	377	322	2988	5	20kg	1368	1368		
	90kg	2482	263	306		5	95kg	288	246		2333	5	30kg	911	911
	120kg	1861	187	218			10	120kg	218		187		1850	10	50kg
10	65kg	1911	338	373	10	60kg		408	368	2092	10	15kg	1618		1618
	85kg	1445	248	276		10		80kg	296	266		1554	10		25kg
25	120kg	1000	164	182	25		120kg	182	164	1002	25	40kg		607	607
	35kg	1666	547	538		25	30kg	633	644	1961		25	10kg	1922	1922
	55kg	1030	331	328			25	50kg	365	369			1143	25	14kg
83kg	654	206	204	25	83kg			204	206	656	25		25kg		769

传感器连接图<原点及端点> Sensor layout



- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
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- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR
- 参考资料 Reference data

静态容许负载惯量 Static loading moment



点 Point	惯量 Inertia (单位Unit:N.m)
MY	1032
MP	1034
MR	908

*力矩表所表示的数据, 代表重心。
The torque value in the chart indicate the center of gravity.
*符合型录规范的正常试用下, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
*倒吊使用无法套用标准规范, 如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.

搭配伺服马达一览表 Suitable motor brand

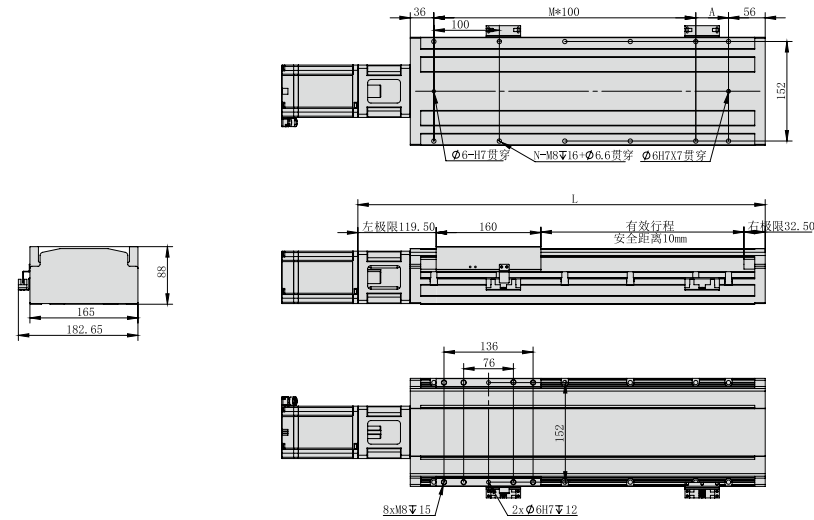
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	200	220	ECMA-C20807ES	ASD-B20721-B



电机外置直连/电机外置下方
Motor external direct connection/Motor external below

M 电机外置直连 Motor external direct connection

单位:Unit: mm



*不含电机重量。*Motor weight not included.

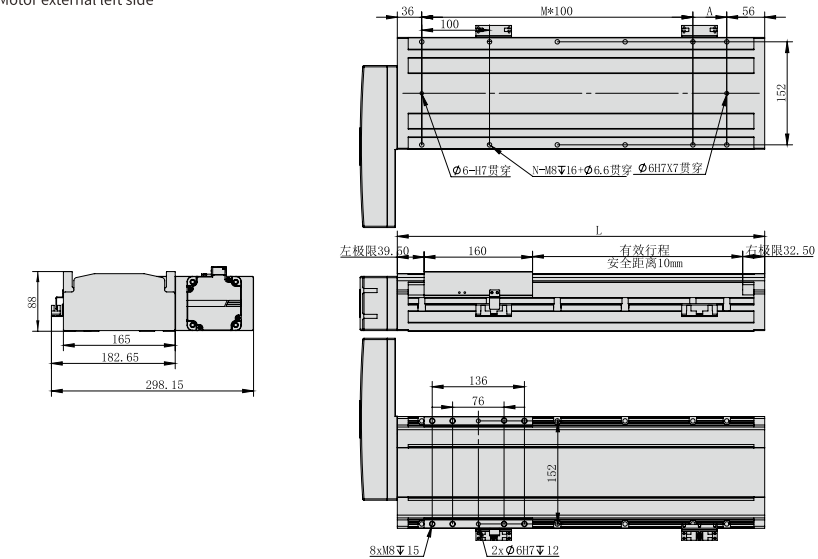
有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	426	476	526	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526	1576	1626	1676	1726	1776	1826	1876	1926	1976	2026	2076	2126
A	50	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	50	100	50	100	50	100	50	100	50
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19
KG	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	25.5

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左侧/电机外置右侧
Motor external left side / Motor external right side

ML 电机外置左侧 Motor external left side

单位:Unit: mm



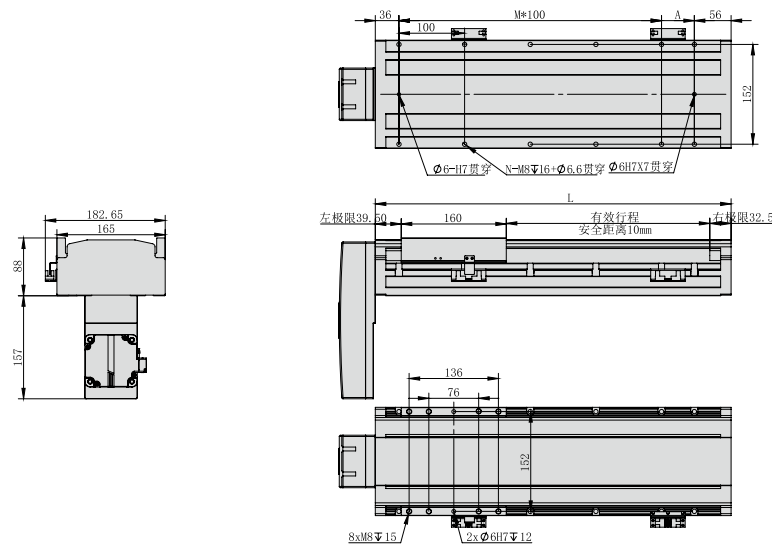
*不含电机重量。*Motor weight not included.

有效行程 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	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051	2101
A	50	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	50	100	50	100	50	100	50	100	50
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19
KG	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	25.5

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MP 电机外置下方 Motor external below

单位:Unit: mm



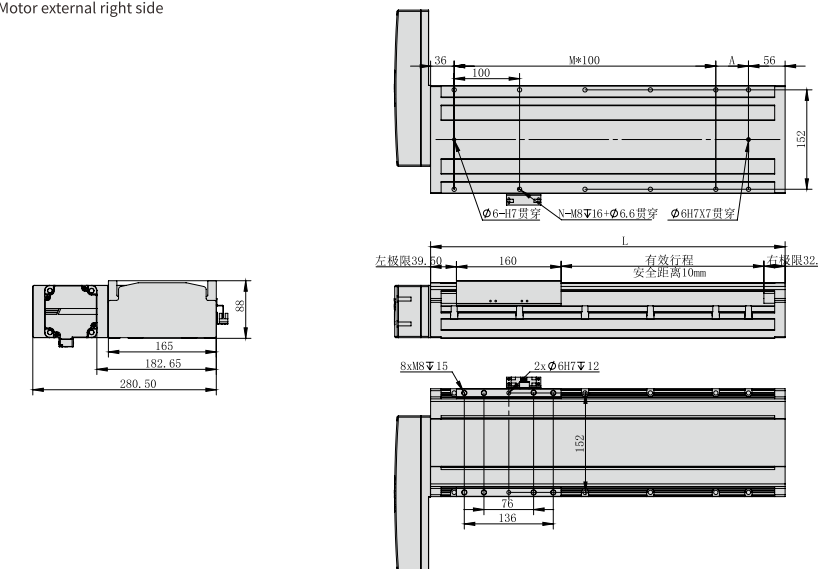
*不含电机重量。*Motor weight not included.

有效行程 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	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051	2101
A	50	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	50	100	50	100	50	100	50	100	50
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19
KG	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	25.5

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MR 电机外置右侧 Motor external right side

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 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	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051	2101
A	50	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	50	100	50	100	50	100	50	100	50
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19
KG	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	25.5

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

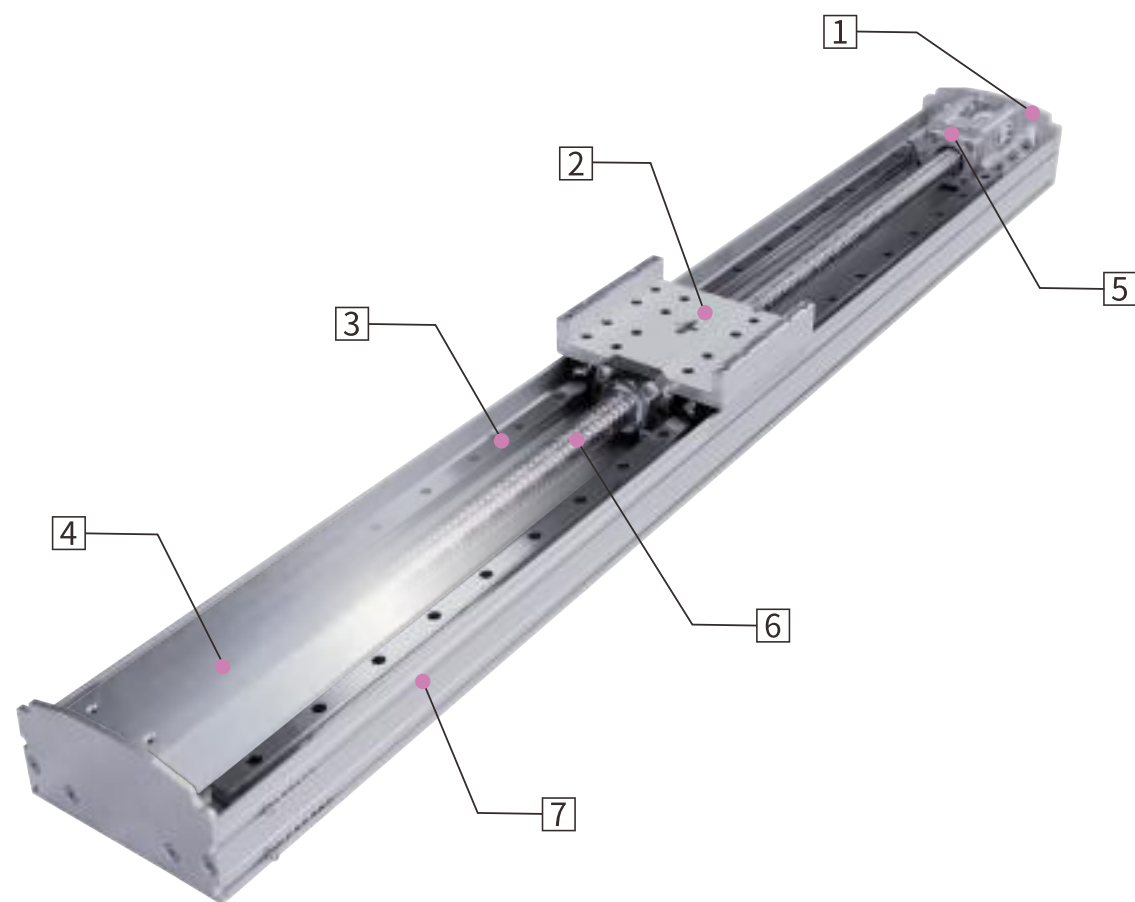
- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
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- ESR
- EMR
- EHR
- KSR
- LNP
- DDR

参考资料
Reference
data



螺杆模组内部结构图说明

Description of Internal Structure Diagram of Screw Driven Linear Actuator



1 法兰板 Flange plate

安装便捷, 方便互换不同的伺服电机。Easy to install, easy to swap different servo motors.

2 滑座 Slide

高强度、高刚性, 供客户安装便捷。High strength, high rigidity, convenient for customers to install.

3 精密直线导轨 Precision linear guide

精度高、刚性高、适合高速运动、保证运行时的直线度和平行度。
High precision, high rigidity, suitable for high-speed movement, to ensure the straightness and parallelism during operation.

4 铝护盖 Aluminum cover

外形美观、可防异物。Beautiful appearance, can prevent foreign bodies.

5 螺杆/电机固定座 Screw/motor fixing seat

防呆设计、吸收安装误差、与法兰板配合安装保证电机、联轴器、和滚珠螺杆的同心度。
Fool proof design, absorption of installation errors, and installation with flange plate to ensure the concentricity of motor, coupling, and ball screw.

6 精密滚珠螺杆 Precision ball bearing screw

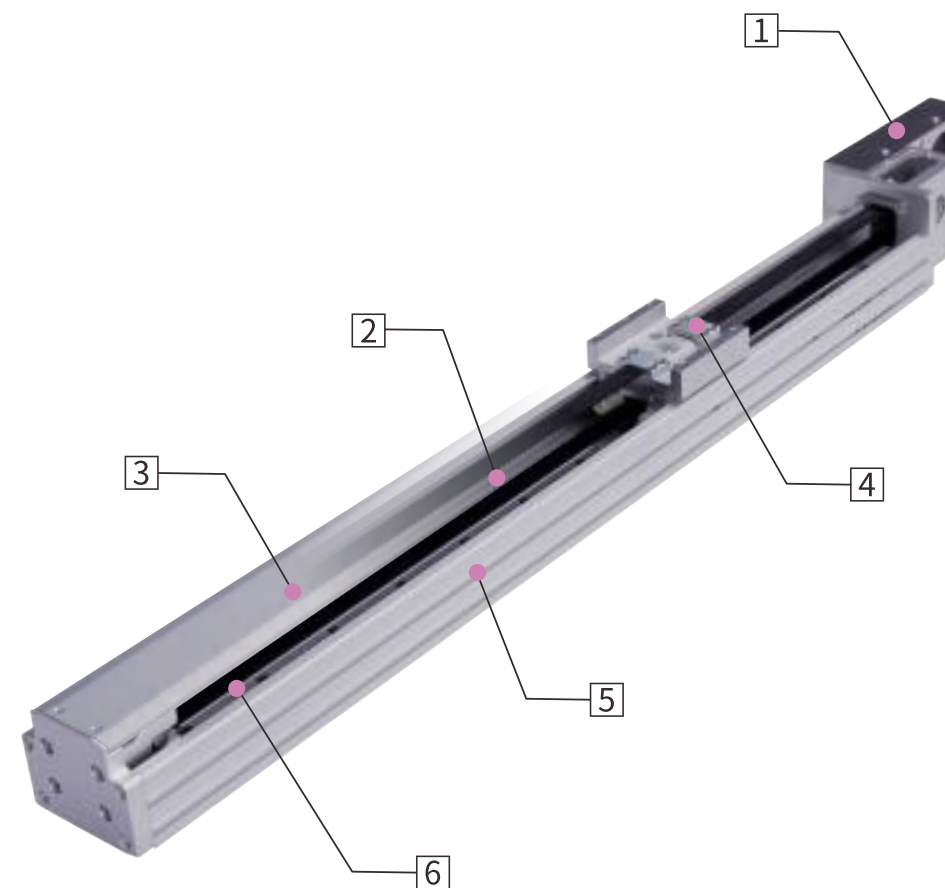
精度根据需求可选配。The precision can be selected according to the demand.

7 铝基座 Aluminum base

整体结构设计紧凑、高强度、高刚性。The overall structure design is compact, high strength, high rigidity.

同步带模组内部结构图说明

Description of internal Structure Diagram of Belt Driven Linear Actuator



1 传动机构 Transmission mechanism

通过伺服电机回转运动传递给同步轮, 再由同步轮与同步带齿与齿的啮合传递动力。
It is transferred to the synchronous wheel through the rotary movement of the servo motor, and then the power is transferred by the meshing between the synchronous wheel and the teeth of the synchronous belt.

2 高强度钢丝同步带 High strength steel wire timing belt

高强度、高张力、抗磨损、低噪音。High strength, high tension, wear resistance, low noise.

3 铝护盖 Aluminum cover

外形美观、可防异物。Beautiful appearance, can prevent Foreign material.

4 滑座 Slide

高强度、高刚性, 供客户安装便捷。High strength, high rigidity, convenient for customers to install.

5 铝基座 Aluminum base

整体结构设计紧凑、高强度、高刚性。The overall structure design is compact, high strength, high rigidity.

6 精密直线导轨 Precision linear guide

精度高、刚性高、适合高速运动、保证运行时的直线度和平行度。
High precision, high rigidity, suitable for high-speed movement, to ensure the straightness and parallelism during operation.

HNR

HCR

HNB

HCB

HNT

XYZ

ONB

OCB

GCR

GCB

GCBS

GCRS

ESR

EMR

EHR

KSR

LNP

DDR

参考资料
Reference data



重复精度
Repeat Accuracy
±0.02 mm



此图仅供参考, 出货规格详见尺寸图面
This picture for reference only, specs details according with the drawing.

最大行程
Max stroke 148mm

最高速度
Max speed 20mm/s

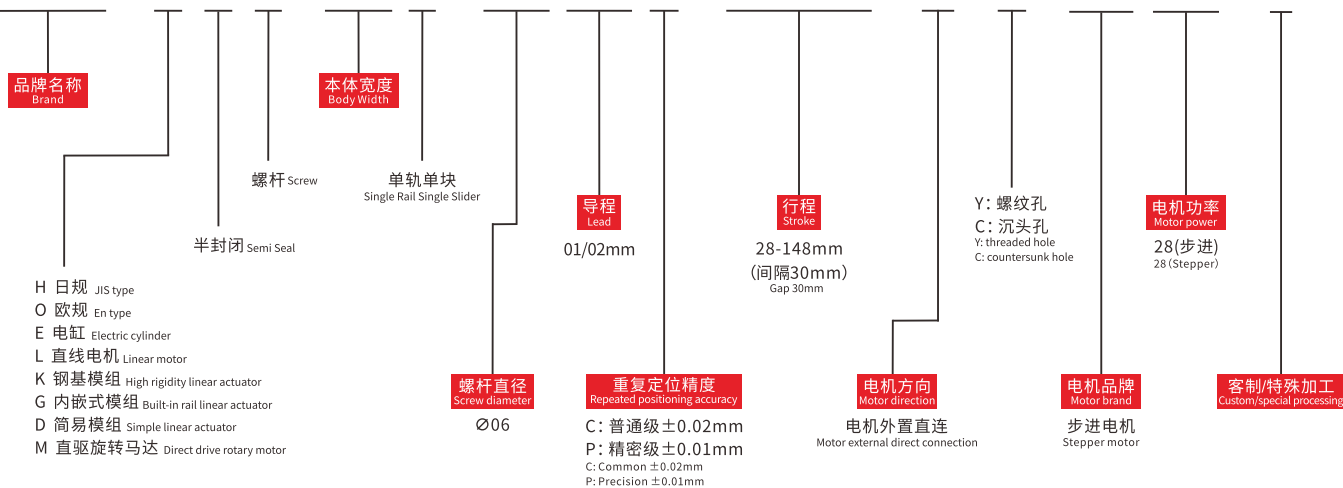
马达容量
Motor output 28(步进)

滚珠螺杆
Ball screw Ø6mm

直线滑轨
Linear guide 15X12.5-1支

型号表达方式 Ordering method

TPA-HNR-30S-0602C-L148-M-Y-BJ28-F



产品性能参数如下 Product performance parameters are as follows

步长 Linear travel/step	0.01mm(1.8°)	
额定电流 Rated current (Amp)	1	
重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.02	
导程 (mm) Lead (mm)	1	2
最高速度 (mm/s) Maximum speed (mm/s)	10	20
电机额定转速 (RPM) Rated speed of motor (RPM)	600	
最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	4
	垂直使用 (kg) Vertical (kg)	1
定格推力 (N) Rated thrust (N)	34	
标准行程 (mm) Stroke pitch (mm)	28~148mm/30 间隔 30 mm Pitch	
滚珠螺杆外径 (mm) Ball screw Ø (mm)	Ø6	
基座材质 Material of base	不锈钢/合金钢 Stainless steel/alloy steel	
安装面精度要求 (mm) Accuracy requirements of installation surface (mm)	C级<0.05; P级<0.02 C level<0.05 P level<0.02	
使用环境 Operating environment	0~40°C, 85%RH(无凝结) No condensation	

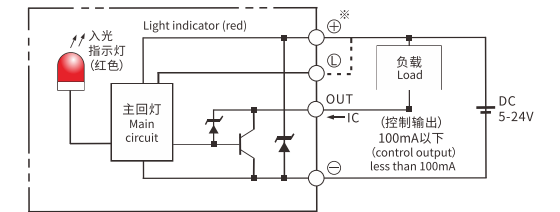
注1: 使用非上述功率电机时请依据实际参数推算。
Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.

注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be reduced appropriately. Generally, the speed should be reduced by 10~15% for every 100mm increase of the screw.

容许负载力矩表 N.m Allowable overhang

(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)					
水平安装 Horizontal installation		A	B	C	侧面安装 Horizontal installation		A	B	C	垂直安装 Vertical installation		A	C
导程 1 Lead	4kg	-	-	-	导程 1 Lead	4kg	-	-	-	导程 1 Lead	1kg	-	-
导程 2 Lead	2kg	-	-	-	导程 2 Lead	2kg	-	-	-	导程 2 Lead	0.5kg	-	-

感应器连接图<原点及端点> Sensor layout



- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR
- 参考资料
Reference data

静态容许负载惯量 Static loading moment

(单位Unit:N.m)	
MY	-
MP	-
MR	-

*力矩表所表示的数据, 代表重心。
The torque value in the chart indicate the center of gravity.
*符合录规范的正常使用下, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
*倒吊使用无法套用标准规范, 如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.

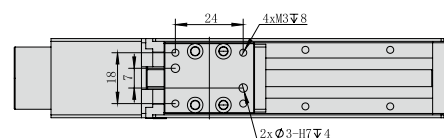
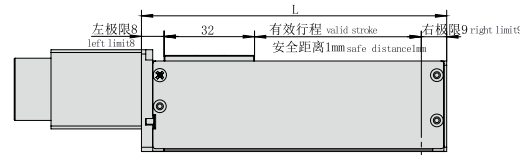
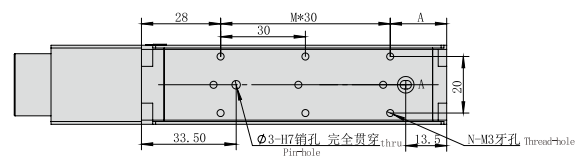
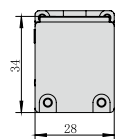
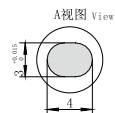
搭配伺服马达一览表 Suitable motor brand

品牌 Brand	激磁最大静止转矩 Maximum static torque	电源电压 AC Voltage	步进马达型号 Stepper motor model	驱动器型号 Driver model
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



电机外置直连
Motor external direct connection

M 电机外置直连 Motor external direct connection



单位:Unit: mm

*不含电机重量。*Motor weight not included.

有效行程 Stroke	28	58	88	118	148
L	78	108	138	168	198
A	20	20	20	20	20
N	4	6	8	10	12
M	1	2	3	4	5
KG	1	1.2	1.4	1.6	1.8

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

知识小课堂 Knowledge classroom

日规模组原理 Theory of Asia Standard Linear Actuator

伺服滑台是一种将伺服马达、滚珠螺杆(或同步带、齿轮齿条)、导轨等相结合的一种小型设备,通过电机旋转运动来驱动传动结构转换成直线运动,从而实现高精度、高速度、高负载的直线运行工作。

Servo slide table is a kind of small equipment which combines servo motor, ball screw (or synchronous belt, rack and pinion) and guide rail. The transmission structure is converted into linear motion through the rotary motion of the motor, so as to realize high-precision, high-speed and high-load linear operation.

日规模组特点 Feature of Asia Standard Linear Actuator

伺服滑台作为一款小型集成设备有着许多特点,精度高、重复定位精度最高可达 $\pm 0.008\text{mm}$,运行速度快、可以采用螺杆、同步带及齿轮齿条等传动方式,安装方便、可在恶劣的工作环境下无故障运行;本体质量轻、占设备空间小,高刚性、寿命长、噪音低、控制简单、维护方便等。

As a small integrated equipment, the servo slide table has many characteristics, such as high precision, repeated positioning accuracy up to $\pm 0.01\text{mm}$, fast running speed, convenient installation and trouble-free operation in harsh working environment. Light weight, small equipment space, high rigidity, long service life, low noise, simple control and convenient maintenance.

日规模组产品优势 Product advantage of Asia Standard Linear Actuator

1、传动结构多样化 Diversification of transmission structure

作为一款小型集成设备,滑台在结构方面既简单又有着多样的选择性,目前广泛使用的可分为三类型,滚珠螺杆型、同步带型以及齿轮齿条形式,可适用于不同的工作环境。

As a small integrated equipment, the sliding table is simple in structure and has a variety of options. At present, it can be widely used in three types: ball screw type, synchronous belt type and rack and pinion type, which can be applied to different working environments.

2、控制简单、适用性强 Simple control and strong applicability

由伺服、步进等电机驱动,既有着伺服电机的高精度、也有滑台本身高速度、高刚性的优势,操控简单可轻易与PLC等系统连接。

Driven by servo, stepper and other motors, it not only has the high precision of servo motor, but also has the advantages of high speed and high rigidity of sliding table itself. It is easy to control and can be easily connected with PLC and other systems.

3、安装便捷、尺寸可非标化 Convenient installation and nonstandard size

滑台采用的是一体挤压成型铝型材,本体质量轻、尺寸小、刚性强、安装尺寸、行程都可以按要求非标定制,安装使用螺栓固定便可。

The sliding table is made of integrally extruded aluminum profile, with light weight, small size and strong rigidity. The installation size and stroke can be customized according to the requirements, and the installation can be fixed by bolts.

4、组合搭建 Combined construction

滑台可通过多放向的组合,组成设备上的运动执行机构,例如工业机械手XYZ轴机械手、坐标轴滑台等。

The sliding table can be combined with multiple directions to form the motion executing mechanism on the equipment, such as XYZ axis manipulator, coordinate axis sliding table and so on.

- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR
- 参考资料
Reference data



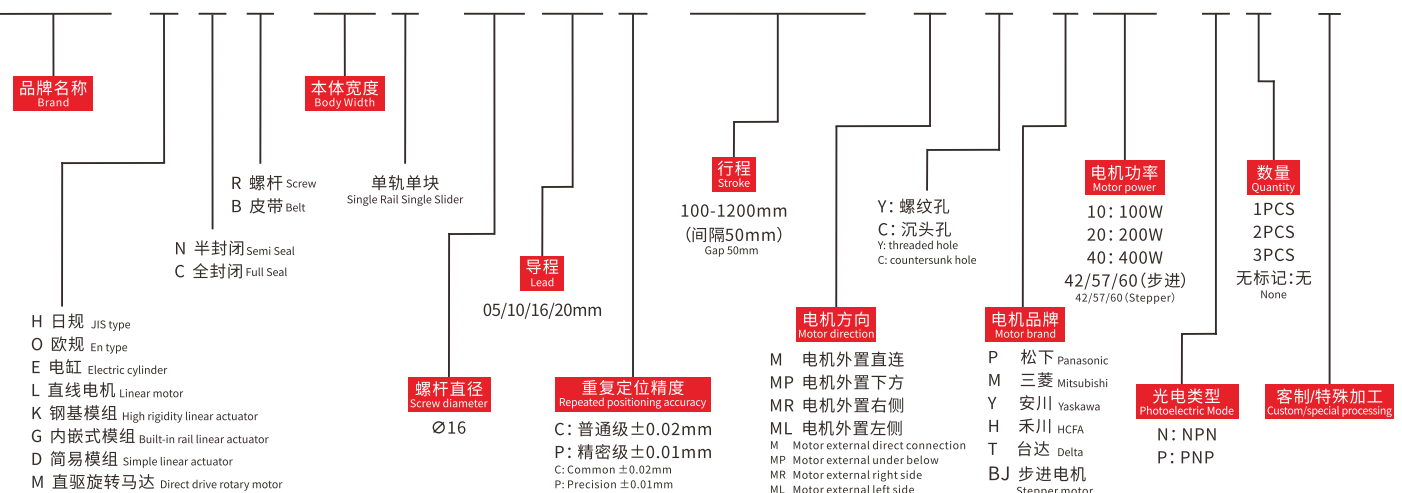
重复精度
Repeat Accuracy
±0.02
mm

此图仅供参考, 出货规格详见尺寸图面
This picture for reference only, specs details according with the drawing.

最大行程 Max stroke 1200mm | 最高速度 Max speed 1000mm/s | 马达容量 Motor output 200W | 滚珠螺杆 Ball screw Ø16mm | 直线滑轨 Linear guide 15X12.5-1支

型号表达方式 Ordering method

TPA-HNR-65S-1610C-L1200-M-Y-P20-N3-F

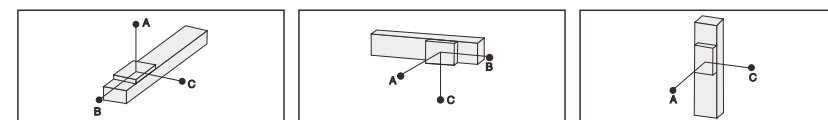


产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率(W) Motor power(W)	100			
	额定扭矩(N.M) Rated torque(N.M)	0.32			
	重复定位精度(mm) Repeated positioning accuracy(mm)	±0.02			
	导程(mm) Lead(mm)	5	10	16	20
	最高速度(mm/s) Maximum speed(mm/s)	250	500	800	1000
	电机额定转速(RPM) Rated speed of motor(RPM)	3000			
最大可搬重量 Maximum Payload	水平使用(kg) Horizontal(kg)	36	18	14	9
	垂直使用(kg) Vertical(kg)	16	8	6	4
定规格推力(N) Rated thrust(N)	307 154 96 77				
标准行程(mm) Stroke pitch(mm)	100~1200mm/50 间隔 50 mm Pitch				
滚珠螺杆外径(mm) Ball screw Ø(mm)	Ø16				
部品 Parts	基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1			
	安装面精度要求(mm) Accuracy requirements of installation surface(mm)	C级<0.05;P级<0.02 C level<0.05 P level<0.02			
使用环境 Operating environment	0~40°C,85%RH(无凝结) No condensation				

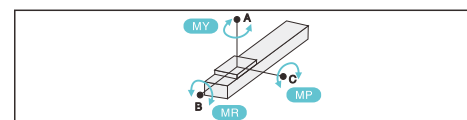
注1: 使用非上述功率电机时请依据实际参数推算。
Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be reduced appropriately. Generally, the speed should be reduced by 10~15% for every 100mm increase of the screw.

容许负载力矩表 N.m Allowable overhang



(单位Unit:mm)					(单位Unit:mm)					(单位Unit:mm)				
水平安装 Horizontal installation		A	B	C	侧面安装 Side mounting		A	B	C	垂直安装 Vertical installation		A	C	
导程 5 Lead	14kg	111	80	53	导程 5 Lead	14kg	26	65	132	导程 5 Lead	6kg	94	94	
	17kg	89	60	46		17kg	14	54	87		8kg	73	73	
导程 10 Lead	36kg	50	-	-	导程 10 Lead	36kg	-	-	9	导程 10 Lead	16kg	-	27	
	9kg	139	114	94		9kg	56	98	155		2kg	326	326	
导程 16 Lead	14kg	81	61	35	导程 16 Lead	14kg	13	51	73	导程 16 Lead	4kg	211	211	
	18kg	40	-	-		18kg	-	5	22		8kg	91	91	
导程 20 Lead	-	-	-	-	导程 20 Lead	-	-	-	-	导程 20 Lead	1kg	-	-	
	-	-	-	-		-	-	-	-		-	3kg	-	-
导程 20 Lead	-	-	-	-	导程 20 Lead	-	-	-	-	导程 20 Lead	6kg	-	-	
	-	-	-	-		-	-	-	-		-	1kg	-	-
导程 20 Lead	-	-	-	-	导程 20 Lead	-	-	-	-	导程 20 Lead	2kg	-	-	
	-	-	-	-		-	-	-	-		-	4kg	-	-

静态容许负载惯量 Static loading moment



(单位Unit:N.m)	
MY	16
MP	20
MR	19

*力矩表所表示的数据, 代表重心。
The torque value in the chart indicate the center of gravity.
*符合型录规范的正常试用下, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
*倒吊使用无法套用标准规范, 如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.

搭配伺服马达一览表 Suitable motor brand

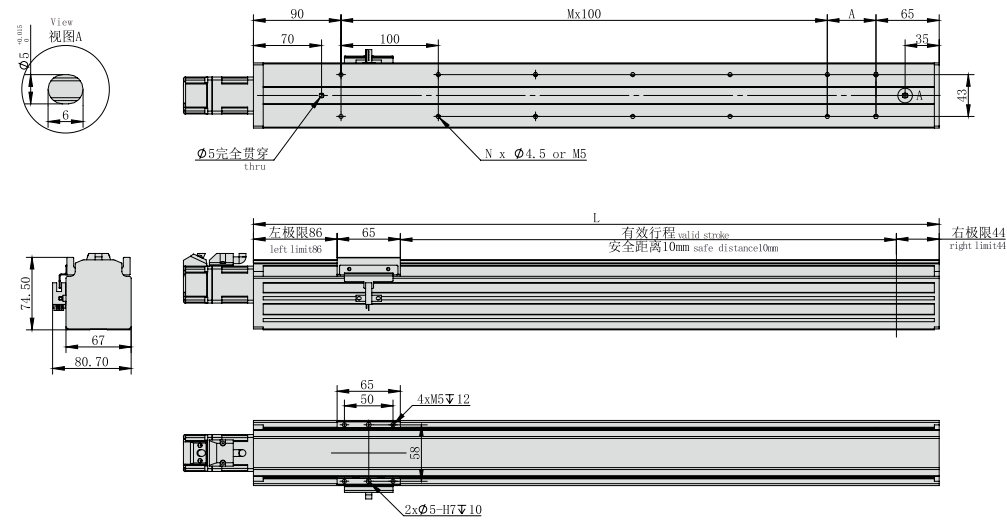
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	200	220	ECMA-C20807ES	ASD-B20721-B



电机外置直连/电机外置下方
Motor external direct connection/Motor external under below

M 电机外置直连 Motor external direct connection

单位:Unit: mm



*不含电机重量。*Motor weight not included.

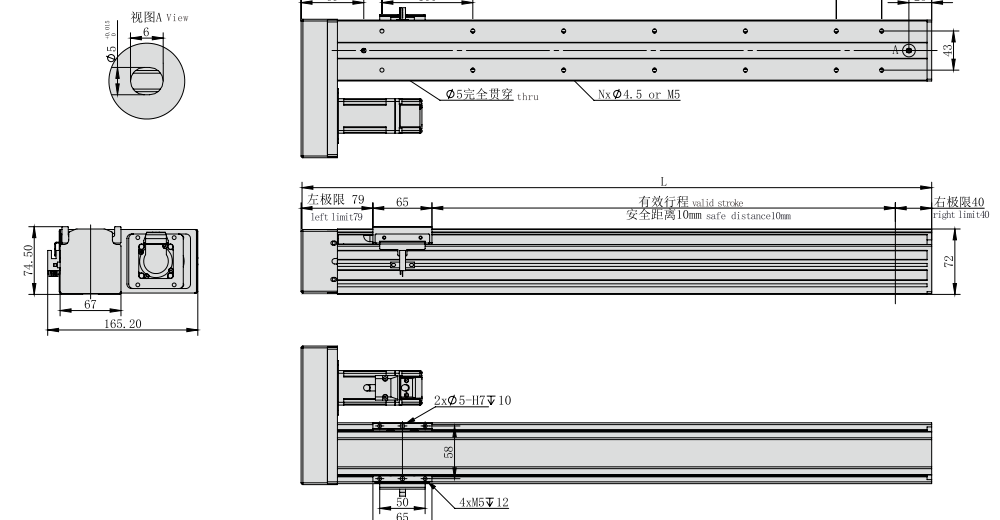
有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	305	355	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
KG	2.6	3	3.4	3.8	4.2	4.6	5	5.4	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左侧/电机外置右侧
Motor external left side / Motor external right side

ML 电机外置左侧 Motor external left side

单位:Unit: mm



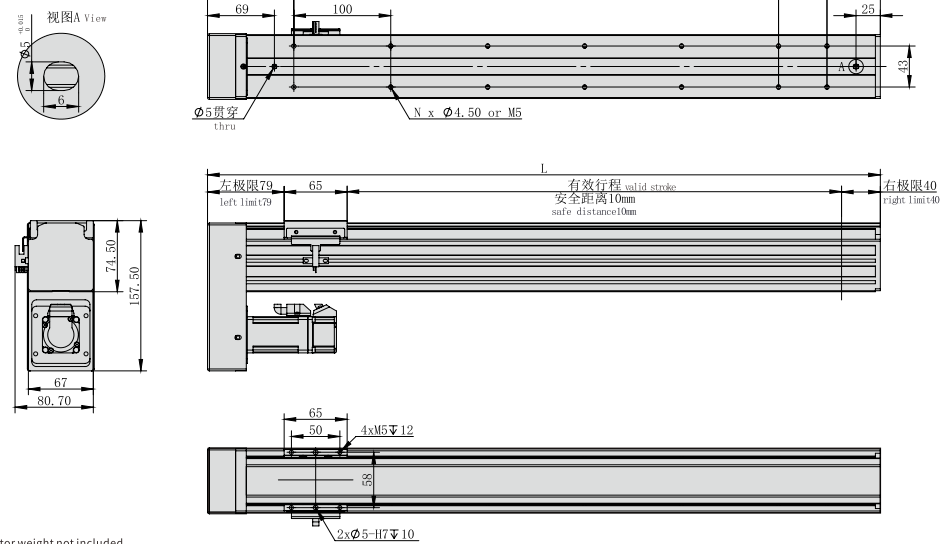
*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	294	344	394	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
KG	2.8	3.2	3.6	4	4.4	4.8	5.2	5.6	6	6.4	6.8	7.2	7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8	11.2	11.6

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MP 电机外置下方 Motor external under below

单位:Unit: mm



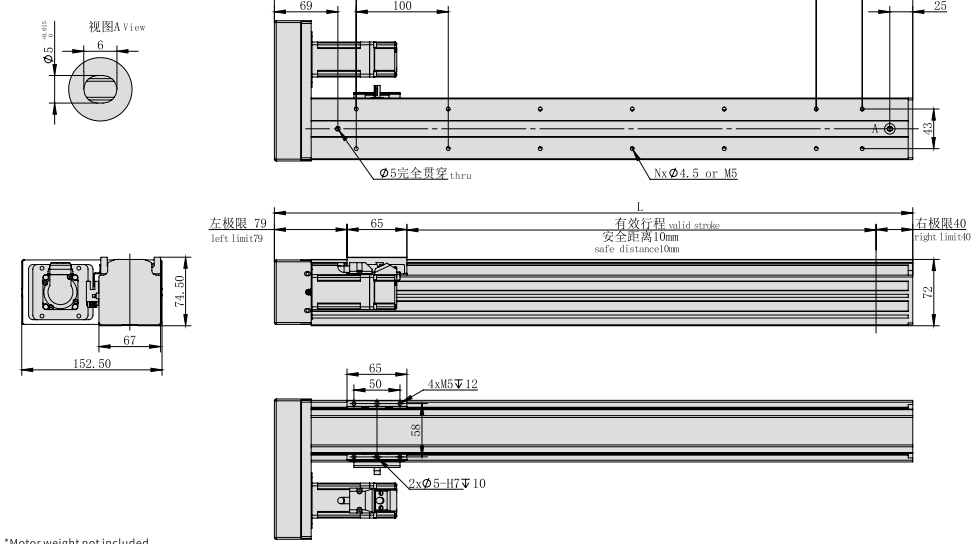
*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	294	344	394	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
KG	2.8	3.2	3.6	4	4.4	4.8	5.2	5.6	6	6.4	6.8	7.2	7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8	11.2	11.6

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MR 电机外置右侧 Motor external right side

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	294	344	394	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
KG	2.8	3.2	3.6	4	4.4	4.8	5.2	5.6	6	6.4	6.8	7.2	7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8	11.2	11.6

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR

参考资料
Reference data



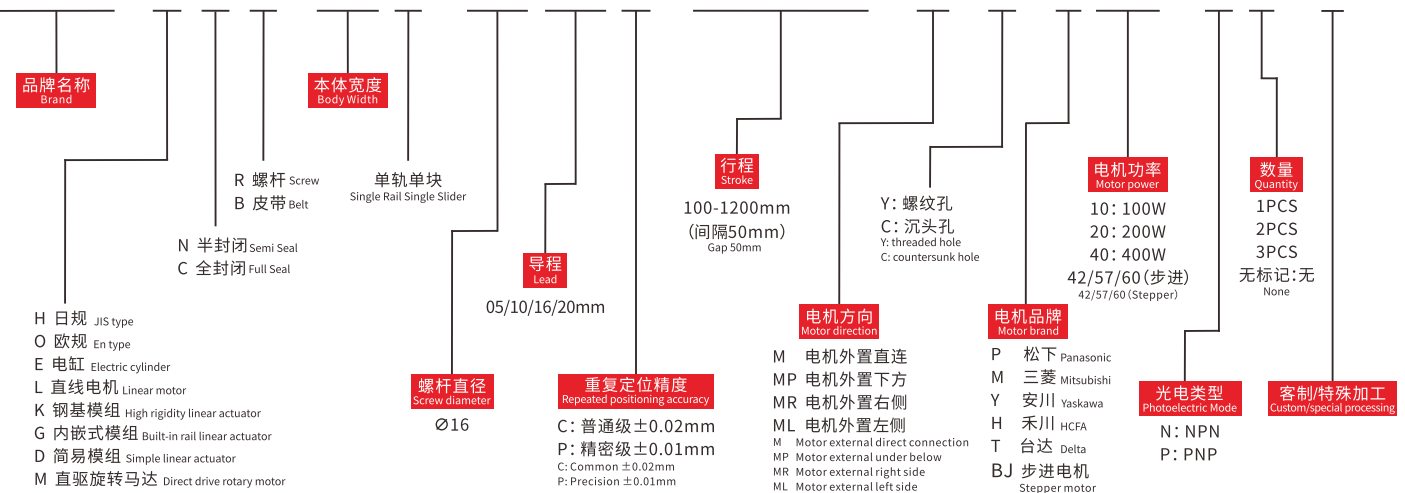
重复精度
Repeat Accuracy
±0.02
mm

此图仅供参考, 出货规格详见尺寸图面
This picture for reference only, specs details according with the drawing.

- 最大行程 Max stroke: 1200mm
- 最高速度 Max speed: 1000mm/s
- 马达容量 Motor output: 200W
- 滚珠螺杆 Ball screw: Ø16mm
- 直线滑轨 Linear guide: 15X12.5-1支

型号表达方式 Ordering method

TPA-HNR-85S-1610C-L1200-M-Y-P20-N3-F

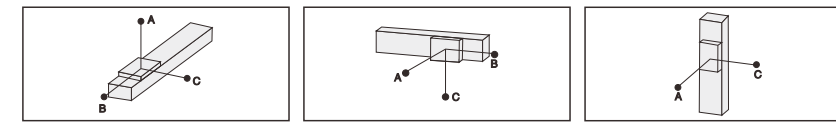


产品性能参数如下 Product performance parameters are as follows

电机功率(W) Motor power(W)	200				
额定扭矩(N.M) Rated torque(N.M)	0.64				
重复定位精度(mm) Repeated positioning accuracy(mm)	±0.02				
导程(mm) Lead(mm)	5	10	16	20	
最高速度(mm/s) Maximum speed(mm/s)	250	500	800	1000	
电机额定转速(RPM) Rated speed of motor(RPM)	3000				
最大可搬重量 Maximum Payload	水平使用(kg) Horizontal(kg)	40	20	15	10
	垂直使用(kg) Vertical(kg)	18	9	7	5
定格推力(N) Rated thrust(N)	615	307	192	154	
标准行程(mm) Stroke pitch(mm)	100~1200mm/50 间隔 50 mm Pitch				
滚珠螺杆外径(mm) Ball screw Ø(mm)	Ø16				
基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1				
安装面精度要求(mm) Accuracy requirements of installation surface(mm)	C级<0.05; P级<0.02 C level<0.05 P level<0.02				
使用环境 Operating environment	0~40°C, 85%RH(无凝结) No condensation				

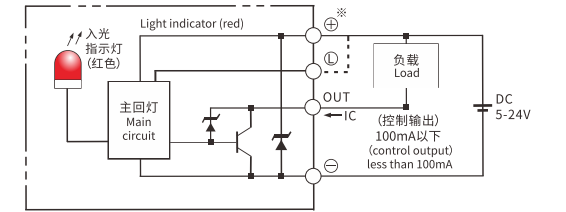
注1: 使用非上述功率电机时请依据实际参数推算。
Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be reduced appropriately. Generally, the speed should be reduced by 10~15% for every 100mm increase of the screw.

容许负载力矩表 N.m Allowable overhang

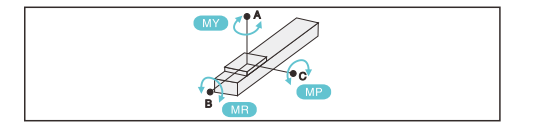


		(单位Unit:mm)			
		水平安装 Horizontal installation		侧面安装 Side mounting	
		A	B	A	B
导程 5 Lead	15kg	83	120	132	65
	20kg	76	91	87	54
	25kg	27	47	9	-
导程 10 Lead	8kg	94	114	155	98
	13kg	35	61	73	51
	15kg	10	16	22	-
导程 16 Lead	4kg	180	249	199	66
	7kg	131	157	138	94
	10kg	42	51	61	27
导程 20 Lead	3kg	118	150	110	53
	5kg	83	105	84	16
	7kg	39	95	21	-

感应器连接图<原点及端点> Sensor layout



静态容许负载惯量 Static loading moment



		(单位Unit:N.m)
MY		80
MP		80
MR		90

*力矩表所表示的数据, 代表重心。
The torque value in the chart indicate the center of gravity.
*符合型录规范的正常试用下, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
*倒吊使用无法套用标准规范, 如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.

搭配伺服马达一览表 Suitable motor brand

品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	200	220	ECMA-C20807E5	ASD-B20721-B



电机外置直连/电机外置下方 Motor external direct connection/Motor external under below

M 电机外置直连 Motor external direct connection

单位:Unit: mm



*不含电机重量。*Motor weight not included.

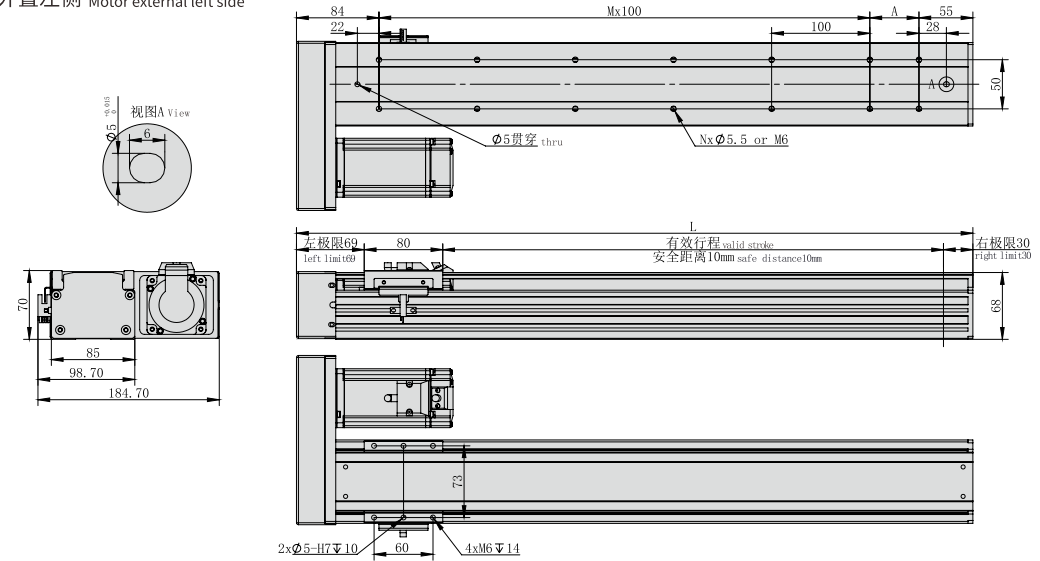
有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	298	348	398	448	498	548	598	648	698	748	798	848	898	948	998	1048	1098	1148	1198	1248	1298	1348	1398
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
KG	2.8	3.2	3.6	4	4.4	4.8	5.2	5.6	6	6.4	6.8	7.2	7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8	11.2	11.6

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左侧/电机外置右侧 Motor external left side / Motor external right side

ML 电机外置左侧 Motor external left side

单位:Unit: mm



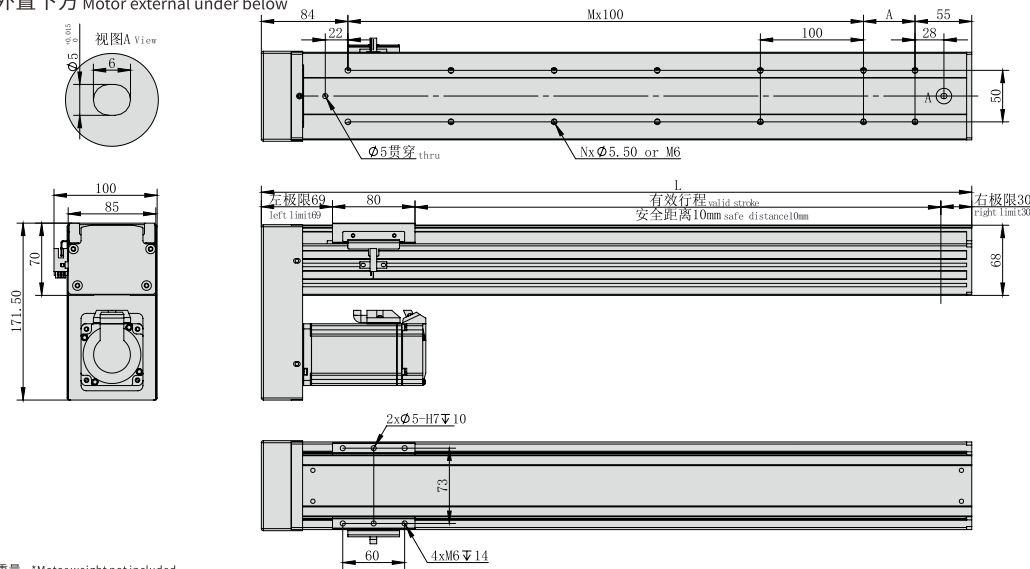
*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	289	339	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
KG	3	3.4	3.8	4.2	4.6	5	5.4	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MP 电机外置下方 Motor external under below

单位:Unit: mm



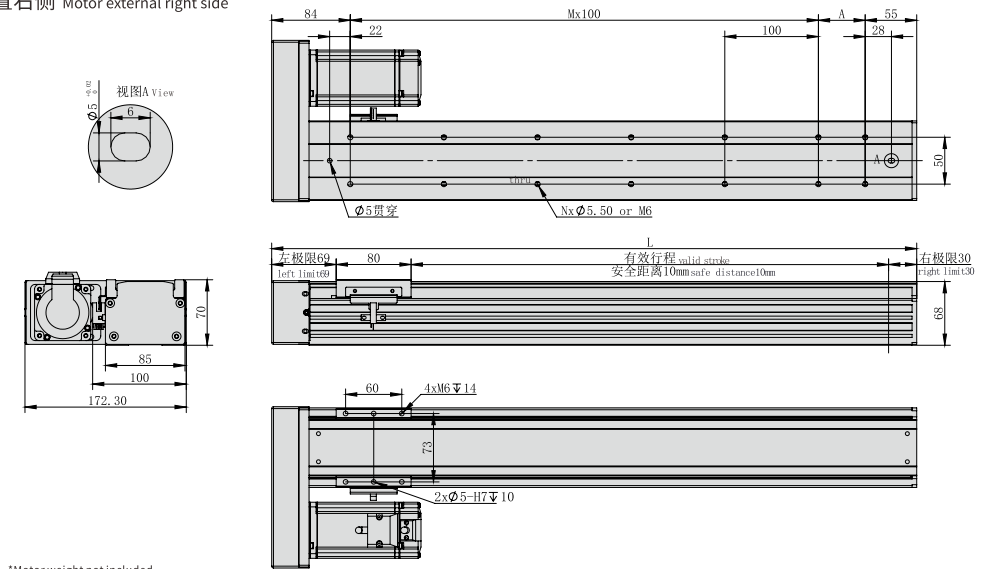
*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	289	339	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
KG	3	3.4	3.8	4.2	4.6	5	5.4	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MR 电机外置右侧 Motor external right side

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	289	339	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
KG	3	3.4	3.8	4.2	4.6	5	5.4	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR

参考资料
Reference
data



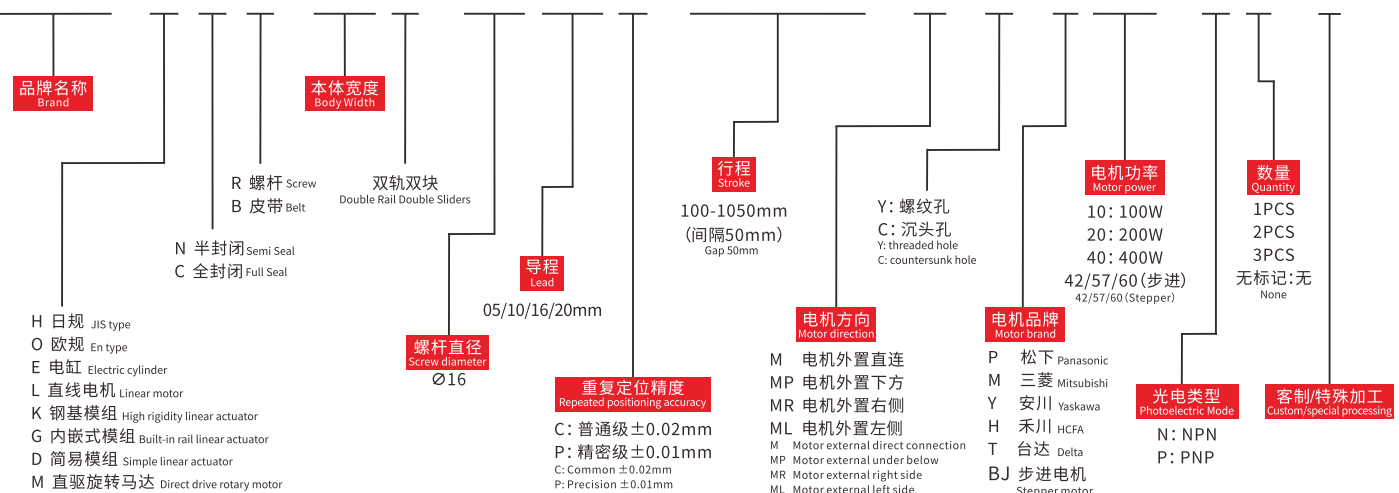
重复精度
Repeat Accuracy
±0.02
mm

此图仅供参考, 出货规格详见尺寸图面
This picture for reference only, specs details according with the drawing.

- 最大行程 Max stroke: 1200mm
- 最高速度 Max speed: 1000mm/s
- 马达容量 Motor output: 200W
- 滚珠螺杆 Ball screw: Ø16mm
- 直线滑轨 Linear guide: 9X6.5-2支

型号表达方式 Ordering method

TPA-HNR-85D-1610C-L1050-M-Y-P20-N3-F

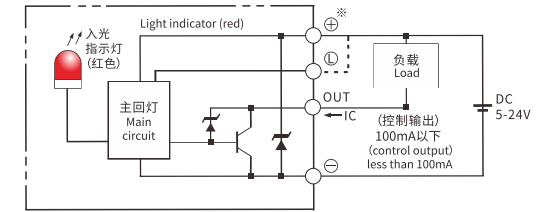


产品性能参数如下 Product performance parameters are as follows

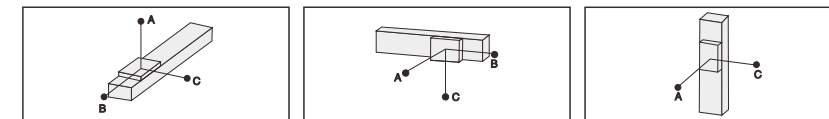
电机功率 (W) Motor power (W)	200				
额定扭矩 (N.M) Rated torque (N.M)	0.64				
重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.02				
导程 (mm) Lead (mm)	5	10	16	20	
最高速度 (mm/s) Maximum speed (mm/s)	250	500	800	1000	
电机额定转速 (RPM) Rated speed of motor (RPM)	3000				
最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	40	20	15	10
	垂直使用 (kg) Vertical (kg)	18	9	7	5
定格推力 (N) Rated thrust (N)	615	307	192	154	
标准行程 (mm) Stroke pitch (mm)	100~1050mm/50 间隔 50 mm Pitch				
滚珠螺杆外径 (mm) Ball screw Ø (mm)	Ø16				
基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1				
安装面精度要求 (mm) Accuracy requirements of installation surface (mm)	C级<0.05; P级<0.02 C level<0.05 P level<0.02				
使用环境 Operating environment	0~40°C, 85%RH (无凝结) No condensation				

注1: 使用非上述功率电机时请依据实际参数推算。
Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be reduced appropriately. Generally, the speed should be reduced by 10~15% for every 100mm increase of the screw.

传感器连接图<原点及端点> Sensor layout

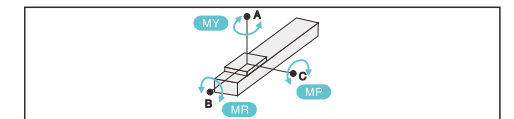


容许负载力矩表 N.m Allowable overhang



水平安装 Horizontal installation (单位Unit:mm)				侧面安装 Side mounting (单位Unit:mm)				垂直安装 Vertical installation (单位Unit:mm)				
导程 Lead	A	B	C	导程 Lead	A	B	C	导程 Lead	A	B	C	
5	25kg	-	226	5	15kg	313	160	94	5	5kg	285	285
10	30kg	-	103	10	21kg	154	33	-	10	10kg	129	166
16	35kg	-	21	16	25kg	15	-	-	16	13kg	10	42
20	14kg	70	112	20	10kg	502	247	120	20	3kg	366	366
	21kg	35	42	20	16kg	189	115	71		6kg	141	141
	25kg	-	98		20kg	52	7	-		9kg	35	58
	4kg	212	300		4kg	380	128	106		1kg	455	455
	9kg	109	151		9kg	198	50	31		2kg	212	212
	15kg	43	48		13kg	35	-	-		4kg	52	52
	4kg	170	235		4kg	266	77	75		1kg	273	273
	7kg	77	121		7kg	139	33	22		2kg	127	127
	10kg	35	39		10kg	25	-	-		3kg	31	31

静态容许负载惯量 Static loading moment



点 (Point)	惯量 (Moment of Inertia) (单位Unit:N.m)
MY	95
MP	95
MR	100

*力矩表所表示的数据, 代表重心。
The torque value in the chart indicate the center of gravity.
*符合型录规范的正常试用下, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
*倒吊使用无法套用标准规范, 如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.

搭配伺服马达一览表 Suitable motor brand

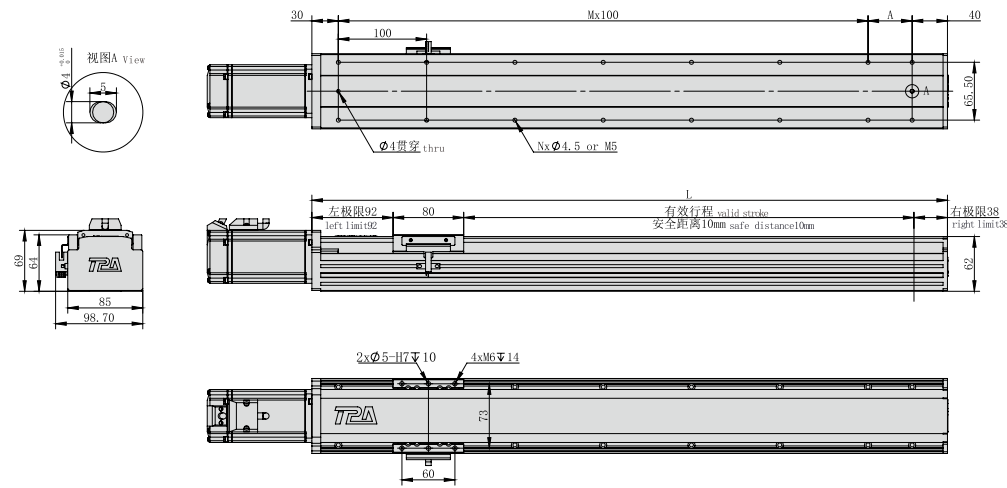
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	200	220	ECMA-C20807ES	ASD-B20721-B



电机外置直连/电机外置下方
Motor external direct connection/Motor external under below

M 电机外置直连 Motor external direct connection

单位:Unit: mm



*不含电机重量。*Motor weight not included.

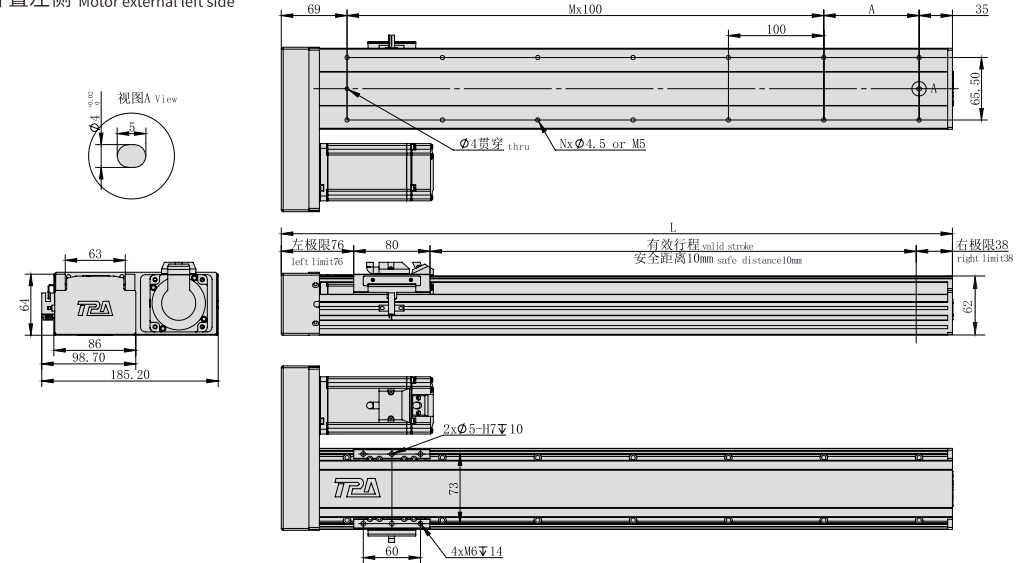
有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	320	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
KG	3	3.4	3.8	4.2	4.6	5	5.4	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左侧/电机外置右侧
Motor external left side / Motor external right side

ML 电机外置左侧 Motor external left side

单位:Unit: mm



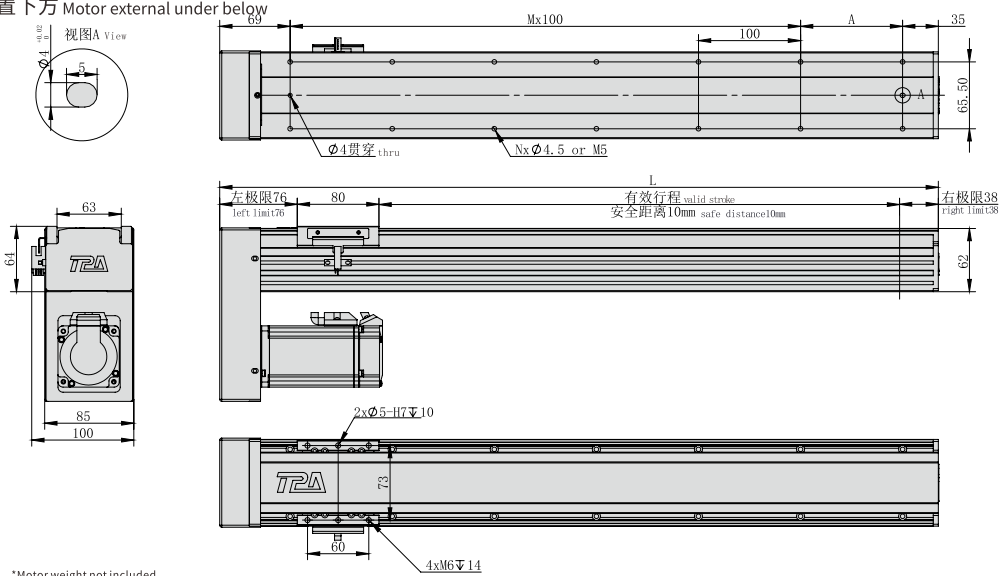
*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	304	354	404	454	504	554	604	654	704	754	804	854	904	954	1004	1054	1104	1154	1204	1254
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
KG	3.2	3.6	4	4.4	4.8	5.2	5.6	6	6.4	6.8	7.2	7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MP 电机外置下方 Motor external under below

单位:Unit: mm



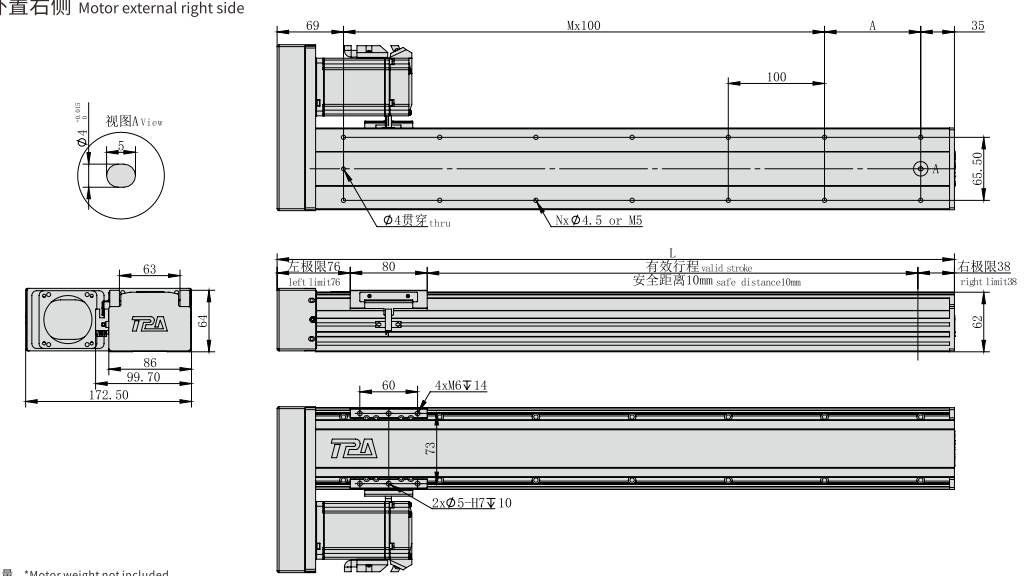
*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	304	354	404	454	504	554	604	654	704	754	804	854	904	954	1004	1054	1104	1154	1204	1254
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
KG	3.2	3.6	4	4.4	4.8	5.2	5.6	6	6.4	6.8	7.2	7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MR 电机外置右侧 Motor external right side

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	304	354	404	454	504	554	604	654	704	754	804	854	904	954	1004	1054	1104	1154	1204	1254
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
KG	3.2	3.6	4	4.4	4.8	5.2	5.6	6	6.4	6.8	7.2	7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR

参考资料
Reference data



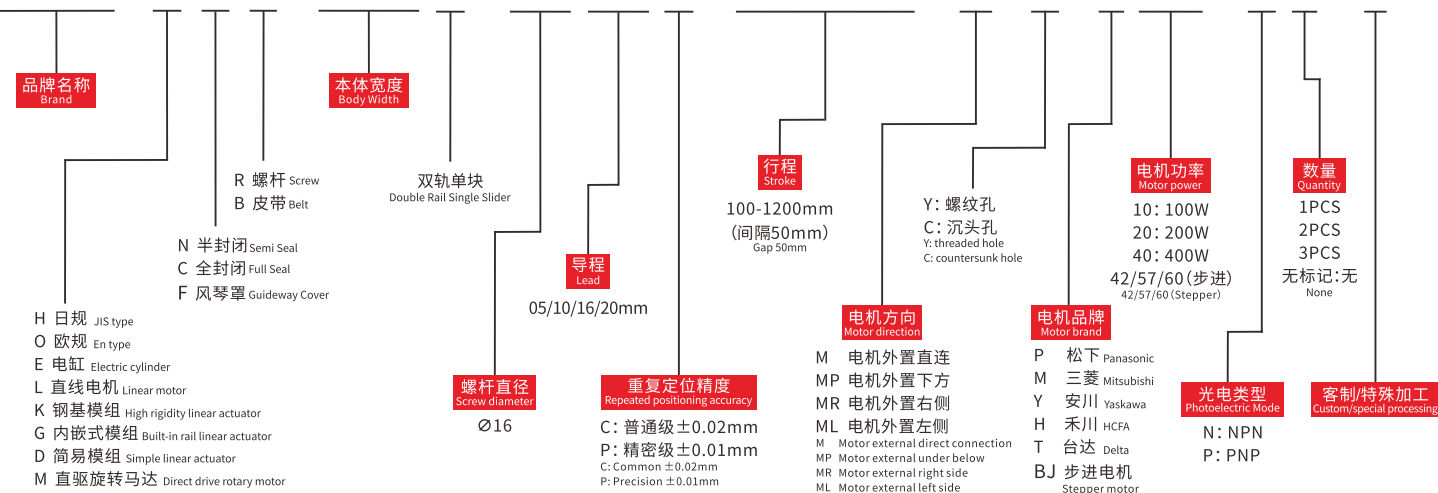
重复精度
Repeat Accuracy
±0.02 mm

此图仅供参考, 出货规格详见尺寸图画
This picture for reference only, specs details according with the drawing.

- 最大行程 Max stroke: 1200mm
- 最高速度 Max speed: 1000mm/s
- 马达容量 Motor output: 200W
- 滚珠螺杆 Ball screw: Ø16mm
- 直线滑轨 Linear guide: 15X12.5-2支

型号表达方式 Ordering method

TPA-HNR-105D-1610C-L1200-M-Y-P20-N3-F

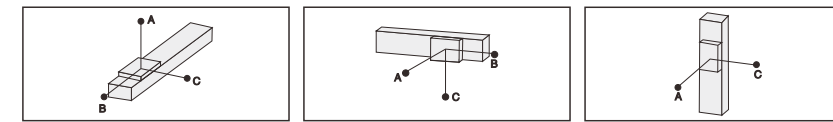


产品性能参数如下 Product performance parameters are as follows

电机功率 (W) Motor power (W)	200				
额定扭矩 (N.M) Rated torque (N.M)	0.64				
重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.02				
导程 (mm) Lead (mm)	5	10	16	20	
最高速度 (mm/s) Maximum speed (mm/s)	250	500	800	1000	
电机额定转速 (RPM) Rated speed of motor (RPM)	3000				
最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	50	25	19	13
	垂直使用 (kg) Vertical (kg)	22	11	8	6
定格推力 (N) Rated thrust (N)	615	307	192	154	
标准行程 (mm) Stroke pitch (mm)	100~1200mm/50 间隔 50 mm Pitch				
滚珠螺杆外径 (mm) Ball screw Ø (mm)	Ø16				
基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1				
安装面精度要求 (mm) Accuracy requirements of installation surface (mm)	C级<0.05; P级<0.02 C level<0.05 P level<0.02				
使用环境 Operating environment	0~40°C, 85%RH (无凝结) No condensation				

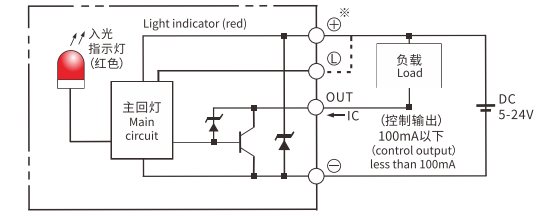
注1: 使用非上述功率电机时请依据实际参数推算。
Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be reduced appropriately. Generally, the speed should be reduced by 10~15% for every 100mm increase of the screw.

容许负载力矩表 N.m Allowable overhang



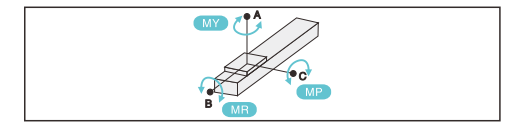
水平安装 Horizontal installation (单位Unit:mm)				侧面安装 Side mounting (单位Unit:mm)				垂直安装 Vertical installation (单位Unit:mm)				
导程 Lead	A	B	C	导程 Lead	A	B	C	导程 Lead	A	B	C	
5	30kg	21	32	262	10kg	602	187	153	5	10kg	93	106
	50kg	1	2	48	20kg	380	92	75		13kg	42	71
	60kg	-	-	-	30kg	9	-	-	10	15kg	23	41
10	20kg	93	162	260	10kg	545	122	109		3kg	333	368
	25kg	61	80	217	20kg	210	33	21		6kg	154	177
	30kg	32	45	175	30kg	-	-	-	10	9kg	100	118
16	10kg	155	242	425	5kg	477	140	123		3kg	413	262
	15kg	89	162	313	10kg	269	78	69		5kg	214	242
	20kg	40	88	199	15kg	126	54	37	16	8kg	60	85
20	5kg	385	407	629	3kg	462	228	179		1kg	546	570
	10kg	110	179	381	7kg	289	94	76		3kg	375	391
	20kg	63	98	230	10kg	211	55	39	20	5kg	123	150

传感器连接图<原点及端点> Sensor layout



- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR
- 参考资料 Reference data

静态容许负载惯量 Static loading moment



点 (Point)	惯量 (Inertia)
MY	150
MP	150
MR	130

*力矩表所表示的数据, 代表重心。
The torque value in the chart indicate the center of gravity.
*符合型录规范的正常试用下, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
*倒吊使用无法套用标准规范, 如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.

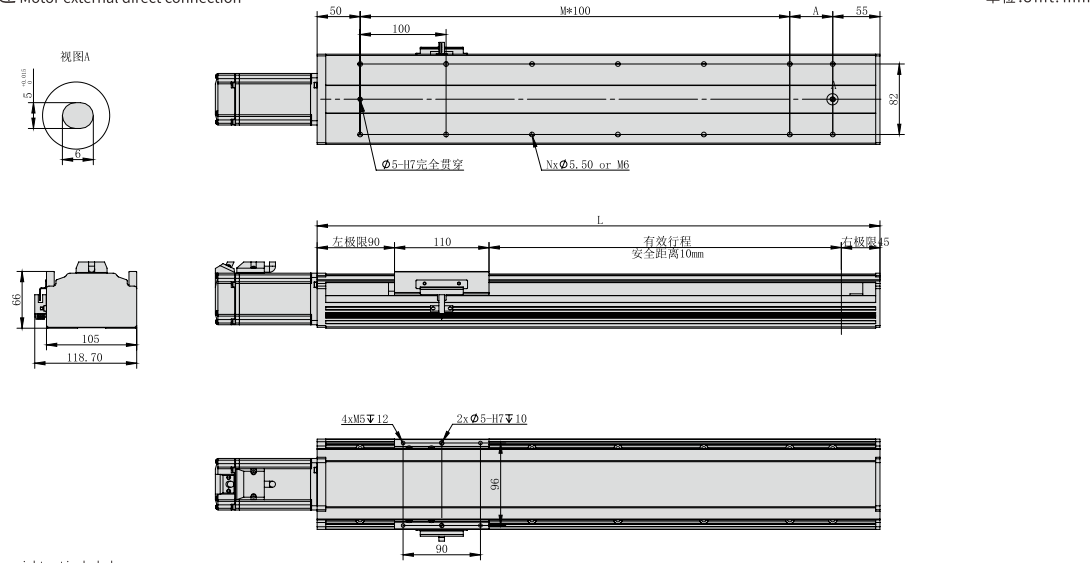
搭配伺服马达一览表 Suitable motor brand

品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	200	220	ECMA-C20807ES	ASD-B20721-B



电机外置直连/电机外置下方
Motor external direct connection/Motor external under below

M 电机外置直连 Motor external direct connection



单位:Unit: mm

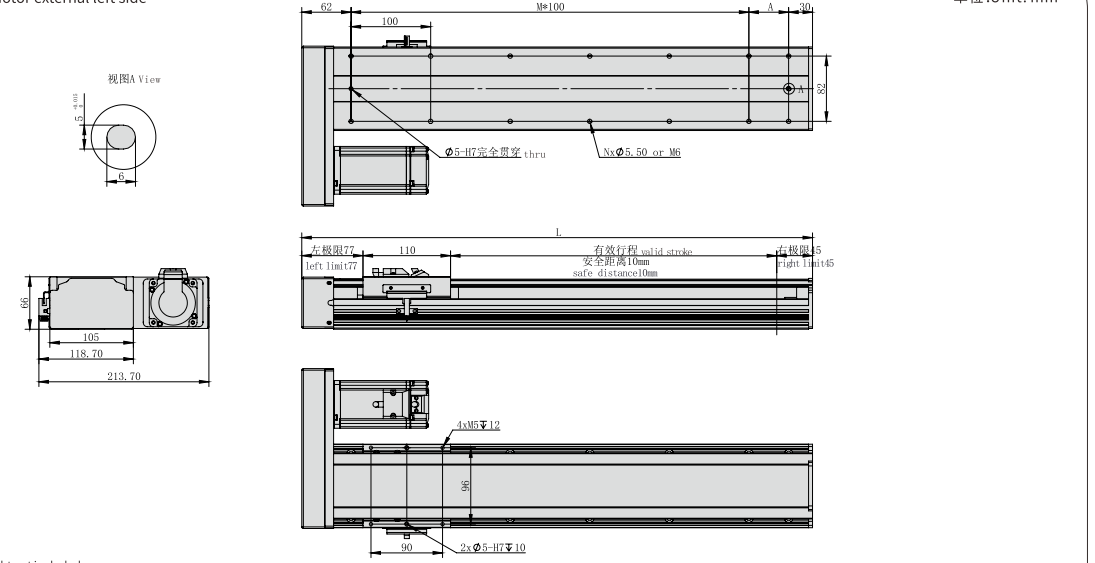
*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	355	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405	1455
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
M	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
KG	3.5	3.8	4.1	4.4	4.7	5	5.3	5.6	5.9	6.2	6.5	6.8	7.1	7.4	7.7	8	8.3	8.6	8.9	9.2	9.5	9.8	10.1

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左侧/电机外置右侧
Motor external left side / Motor external right side

ML 电机外置左侧 Motor external left side



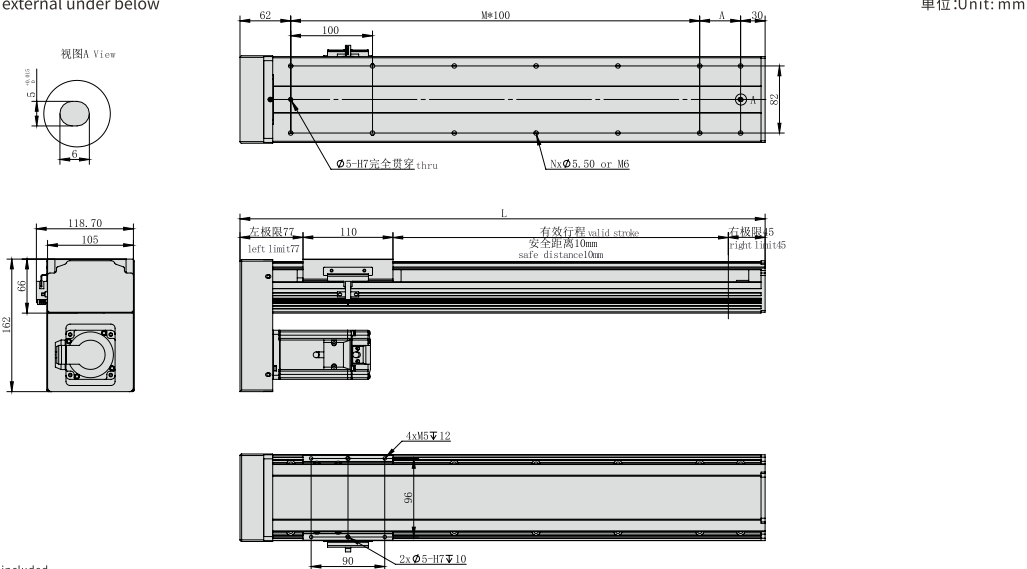
单位:Unit: mm

*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	342	392	442	492	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292	1342	1392	1442
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
M	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
KG	3.5	3.8	4.1	4.4	4.7	5	5.3	5.6	5.9	6.2	6.5	6.8	7.1	7.4	7.7	8	8.3	8.6	8.9	9.2	9.5	9.8	10.1

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MP 电机外置下方 Motor external under below



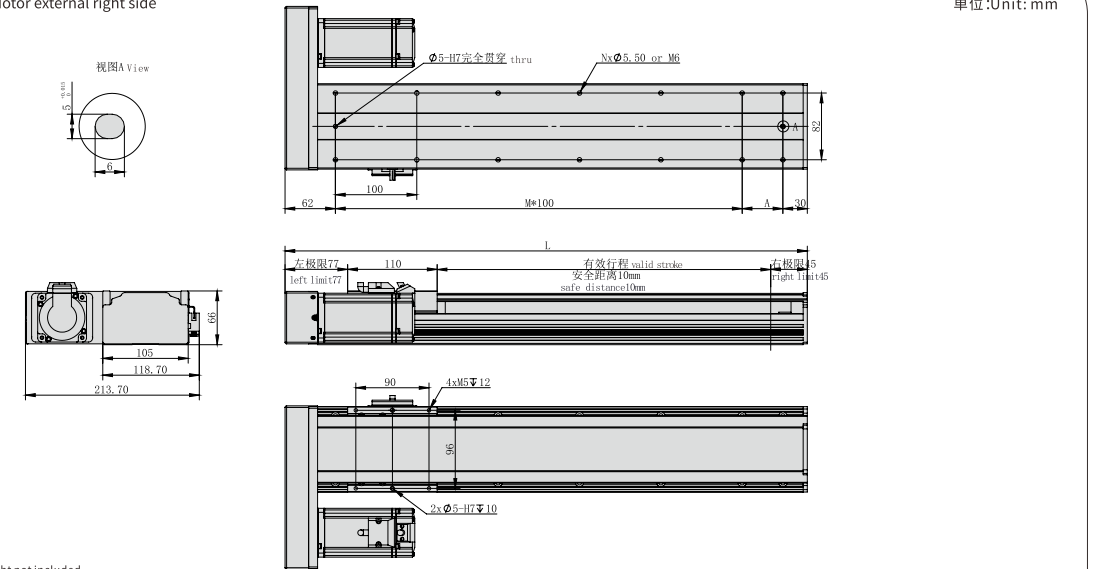
单位:Unit: mm

*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	342	392	442	492	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292	1342	1392	1442
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
M	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
KG	3.5	3.8	4.1	4.4	4.7	5	5.3	5.6	5.9	6.2	6.5	6.8	7.1	7.4	7.7	8	8.3	8.6	8.9	9.2	9.5	9.8	10.1

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MR 电机外置右侧 Motor external right side



单位:Unit: mm

*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	342	392	442	492	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292	1342	1392	1442
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
M	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
KG	3.5	3.8	4.1	4.4	4.7	5	5.3	5.6	5.9	6.2	6.5	6.8	7.1	7.4	7.7	8	8.3	8.6	8.9	9.2	9.5	9.8	10.1

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR

参考资料
Reference
data



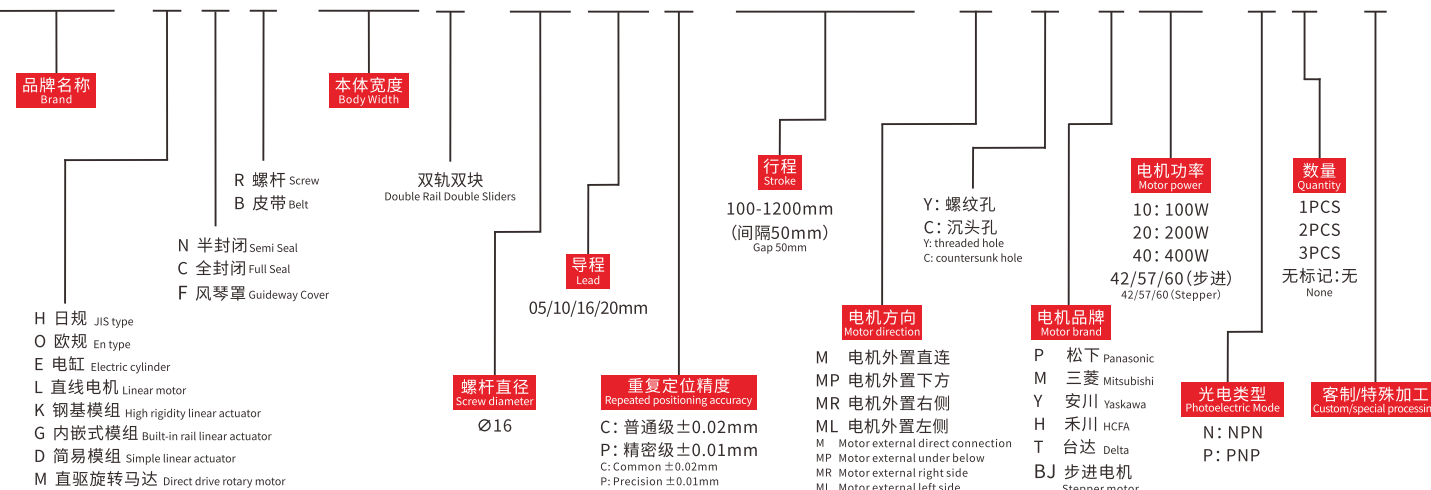
重复精度
Repeat Accuracy
±0.02 mm

此图仅供参考, 出货规格详见尺寸图画
This picture for reference only, specs details according with the drawing.

- 最大行程 Max stroke: 1200mm
- 最高速度 Max speed: 1000mm/s
- 马达容量 Motor output: 200W
- 滚珠螺杆 Ball screw: Ø16mm
- 直线滑轨 Linear guide: 12X8-2支

型号表达方式 Ordering method

TPA-HNR-110D-1610C-L1200-M-Y-P20-N3-F



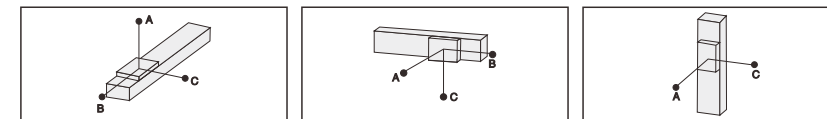
产品性能参数如下 Product performance parameters are as follows

电机功率 (W) Motor power (W)	200				
额定扭矩 (N.M) Rated torque (N.M)	0.64				
重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.02				
导程 (mm) Lead (mm)	5	10	16	20	
最高速度 (mm/s) Maximum speed (mm/s)	250	500	800	1000	
电机额定转速 (RPM) Rated speed of motor (RPM)	3000				
最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	50	25	19	13
	垂直使用 (kg) Vertical (kg)	22	11	8	6
定格推力 (N) Rated thrust (N)	615	307	192	154	
标准行程 (mm) Stroke pitch (mm)	100~1200mm/50 间隔 50 mm Pitch				
滚珠螺杆外径 (mm) Ball screw Ø (mm)	Ø16				
基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1				
安装面精度要求 (mm) Accuracy requirements of installation surface (mm)	C级<0.05; P级<0.02 C level<0.05 P level<0.02				
使用环境 Operating environment	0~40°C, 85%RH (无凝结) No condensation				

注1: 使用非上述功率电机时请依据实际参数推算。
Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.

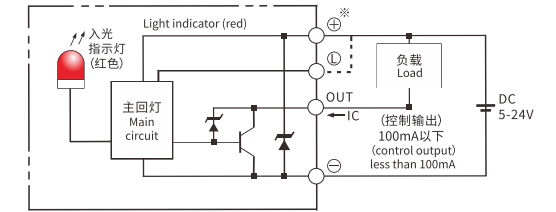
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be reduced appropriately. Generally, the speed should be reduced by 10~15% for every 100mm increase of the screw.

容许负载力矩表 N.m Allowable overhang



(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)			
水平安装 Horizontal installation				侧面安装 Side mounting				垂直安装 Vertical installation			
导程 Lead	A	B	C	导程 Lead	A	B	C	导程 Lead	A	B	C
5	30kg	15	35	399	10kg	1385	37	95	10kg	132	99
5	50kg	-	-	-	20kg	495	-	19	13kg	100	72
5	60kg	-	-	-	30kg	-	-	-	15kg	79	39
10	20kg	57	68	323	10kg	495	29	86	6kg	208	164
10	25kg	23	51	205	20kg	209	-	11	8kg	96	58
10	35kg	-	-	100	30kg	-	-	-	10kg	42	7
16	10kg	160	177	567	5kg	610	100	143	3kg	245	189
16	15kg	82	109	350	10kg	371	82	113	5kg	180	153
16	23kg	-	-	116	20kg	168	-	21	7kg	52	10
20	5kg	188	210	872	5kg	575	102	140	1kg	478	438
20	10kg	89	108	441	10kg	308	65	88	2kg	199	111
20	18kg	55	60	260	20kg	122	-	3	4kg	148	96

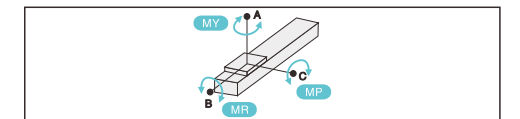
感应器连接图<原点及端点> Sensor layout



- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR

参考资料
Reference data

静态容许负载惯量 Static loading moment



(单位Unit:N.m)	
MY	110
MP	110
MR	120

*力矩表所表示的数据, 代表重心。
The torque value in the chart indicate the center of gravity.

*符合型录规范的正常试用下, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

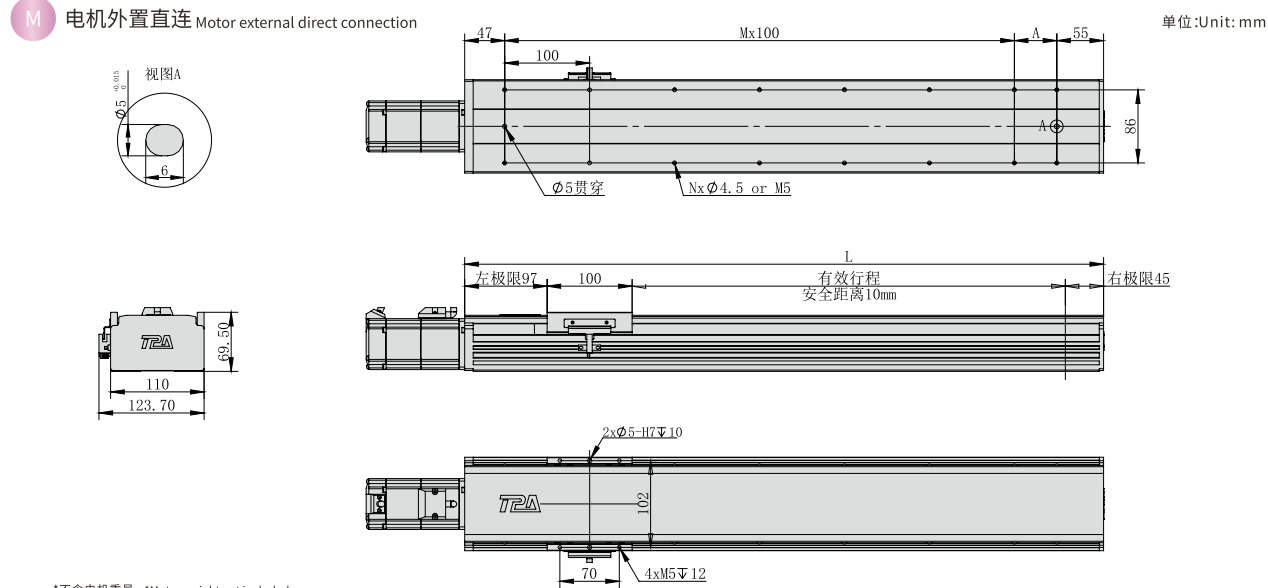
*倒吊使用无法套用标准规范, 如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.

搭配伺服马达一览表 Suitable motor brand

品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	200	220	ECMA-C20807ES	ASD-B20721-B



电机外置直连/电机外置下方
Motor external direct connection/Motor external under below

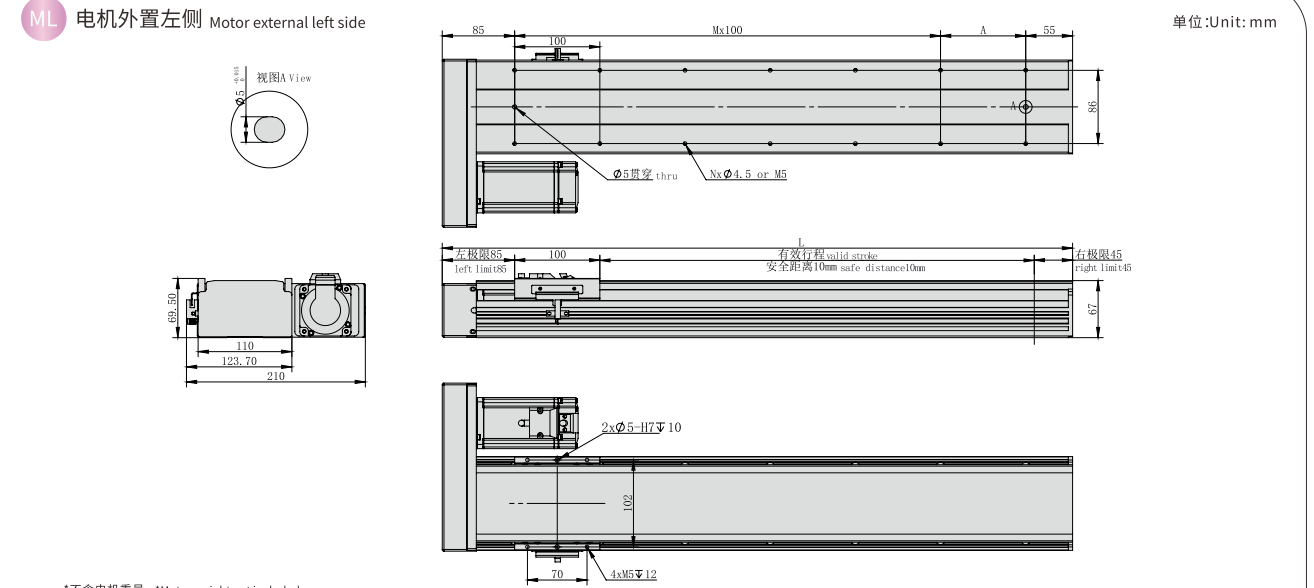


*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	352	402	452	502	552	602	652	702	752	802	852	902	952	1002	1052	1102	1152	1202	1252	1302	1352	1402	1452
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
KG	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3	13.8	14.3	14.8	15.3

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

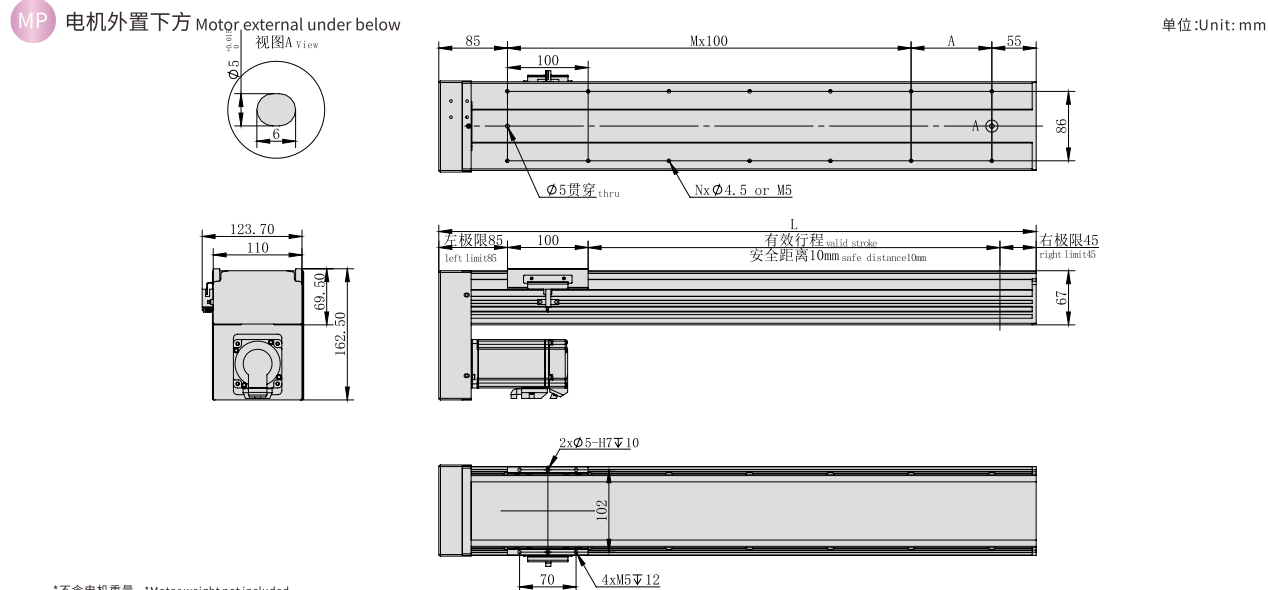
电机外置左侧/电机外置右侧
Motor external left side / Motor external right side



*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	340	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
KG	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5

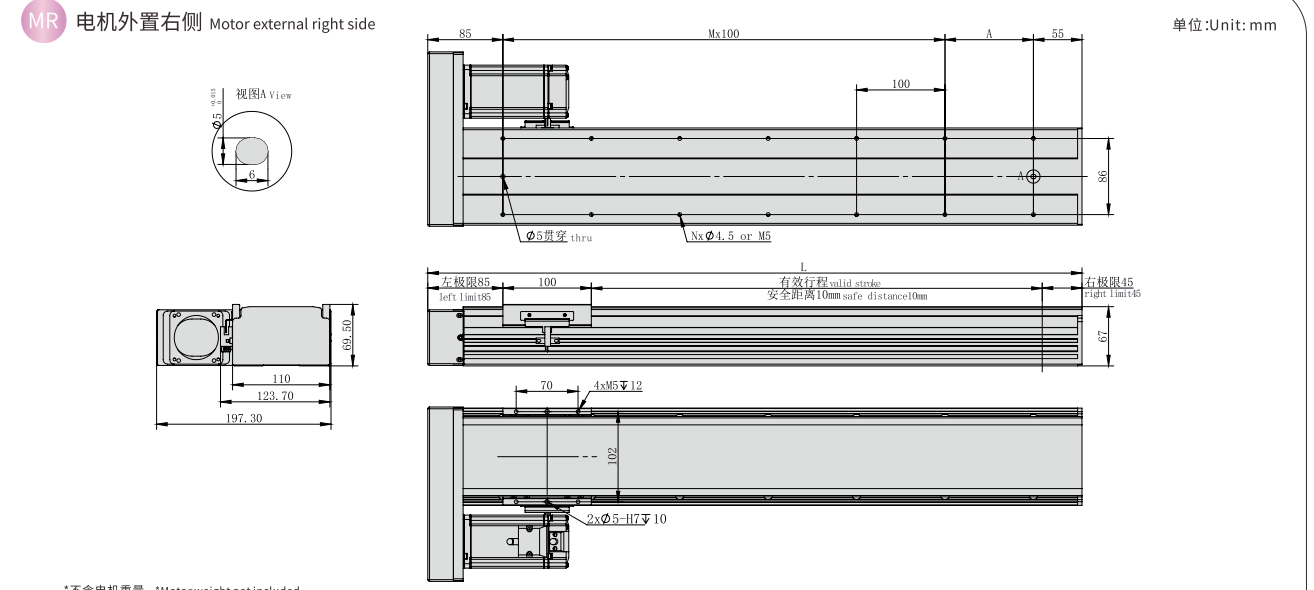
如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.



*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	340	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
KG	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.



*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	340	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
KG	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

- HNR
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参考资料
Reference data



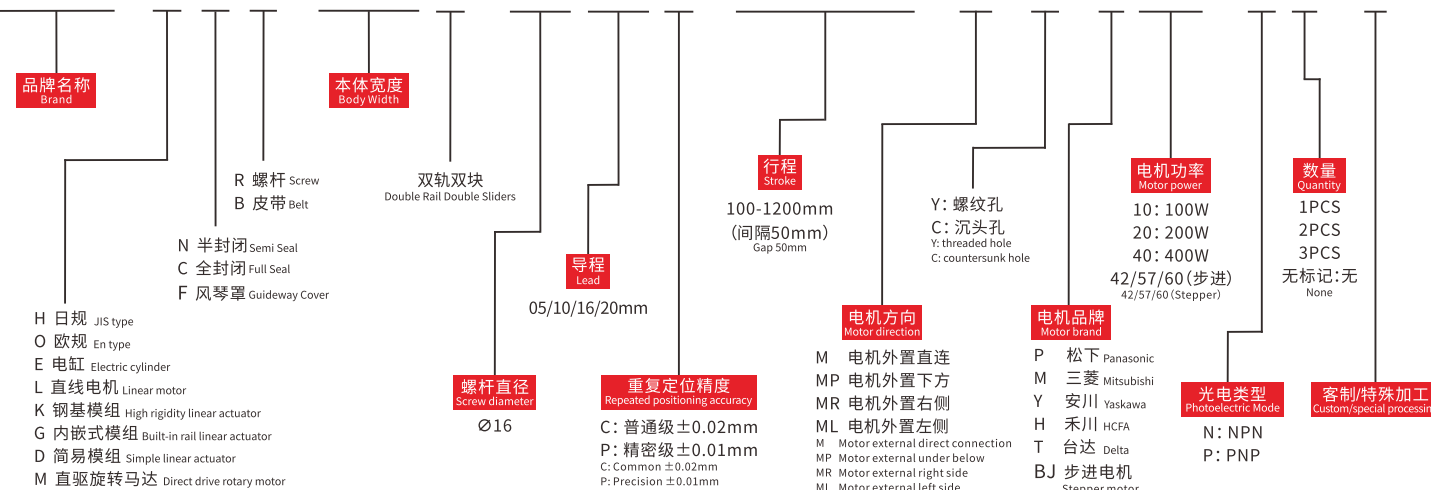
重复精度
Repeat Accuracy
±0.02
mm

此图仅供参考, 出货规格详见尺寸图画
This picture for reference only, specs details according with the drawing.

- 最大行程 Max stroke: 1200mm
- 最高速度 Max speed: 1000mm/s
- 马达容量 Motor output: 200W
- 滚珠螺杆 Ball screw: Ø16mm
- 直线滑轨 Linear guide: 15X12.5-2支

型号表达方式 Ordering method

TPA-HNR-120D-1610C-L1200-M-Y-P20-N3-F

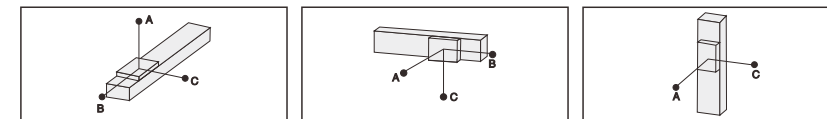


产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率(W) Motor power(W)	200			
	额定扭矩(N.M) Rated torque(N.M)	0.64			
	重复定位精度(mm) Repeated positioning accuracy(mm)	±0.02			
	导程(mm) Lead(mm)	5	10	16	20
	最高速度(mm/s) Maximum speed(mm/s)	250	500	800	1000
	电机额定转速(RPM) Rated speed of motor(RPM)	3000			
最大可搬重量 Maximum Payload	水平使用(kg) Horizontal(kg)	60	30	23	25
	垂直使用(kg) Vertical(kg)	27	12	10	7
定格推力(N) Rated thrust(N)	615 307 192 154				
标准行程(mm) Stroke pitch(mm)	100~1200mm/50 间隔 50 mm Pitch				
部 品 Parts	滚珠螺杆外径(mm) Ball screw Ø(mm)	Ø16			
	基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1			
	安装面精度要求(mm) Accuracy requirements of installation surface(mm)	C级<0.05;P级<0.02 C level<0.05 P level<0.02			
	使用环境 Operating environment	0~40°C,85%RH(无凝结) No condensation			

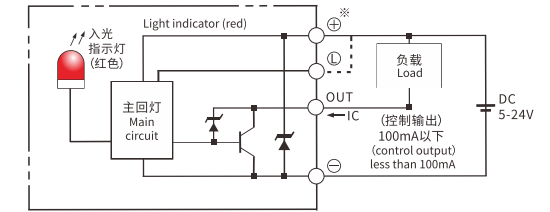
注1: 使用非上述功率电机时请依据实际参数推算。
Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be reduced appropriately. Generally, the speed should be reduced by 10~15% for every 100mm increase of the screw.

容许负载力矩表 N.m Allowable overhang

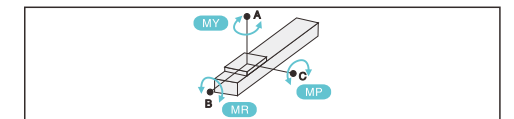


(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)				
水平安装 Horizontal installation				侧面安装 Side mounting				垂直安装 Vertical installation				
导程 Lead	A	B	C	导程 Lead	A	B	C	导程 Lead	A	B	C	
5	30kg	882	65	78	25kg	100	84	1102	5	5kg	544	544
	40kg	606	43	51	35kg	63	52	725		8kg	341	341
	50kg	437	29	35	50kg	35	29	433	10	12kg	227	227
10	15kg	875	138	157	10kg	250	221	1311		4kg	606	606
	25kg	485	73	83	20kg	110	97	633		8kg	303	303
	30kg	386	56	64	30kg	64	56	385	20	-	-	-
16	3kg	1644	888	770	2kg	1182	1364	2512		2kg	961	961
	5kg	984	510	448	5kg	448	510	976		3kg	639	639
20	-	-	-	-	-	-	-	-	20	-	-	-
	5kg	1160	384	386	5kg	317	316	955		-	-	-
	10kg	561	180	181	12kg	147	144	455		-	-	-
	18kg	288	88	89	18kg	89	88	288		-	-	-

感应器连接图<原点及端点> Sensor layout



静态容许负载惯量 Static loading moment



(单位Unit:N.m)	
MY	150
MP	150
MR	130

*力矩表所表示的数据, 代表重心。
The torque value in the chart indicate the center of gravity.
*符合型录规范的正常试用下, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
*倒吊使用无法套用标准规范, 如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.

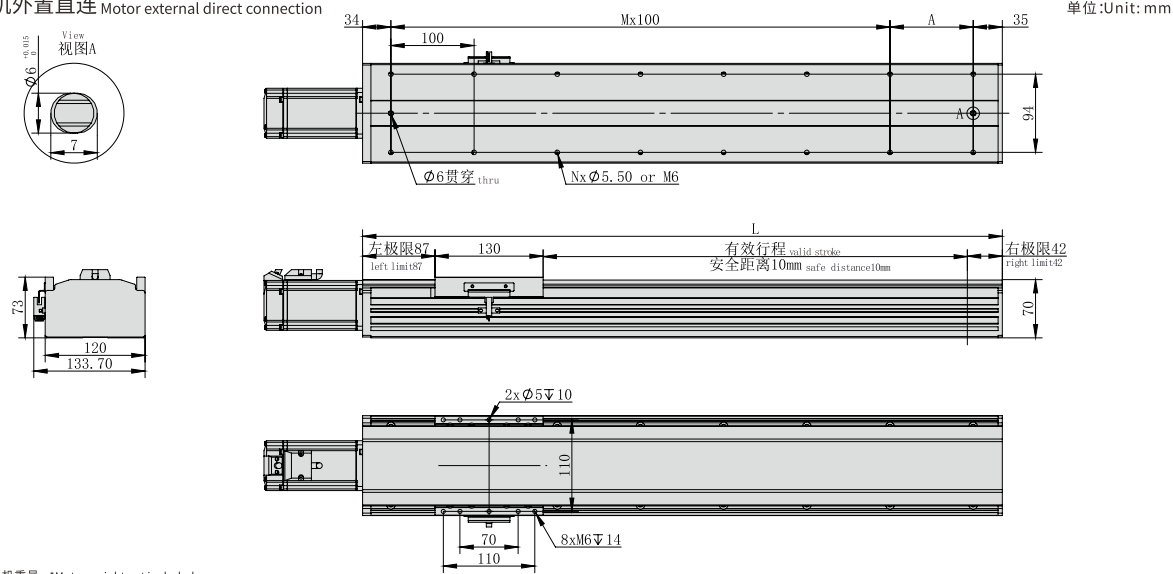
搭配伺服马达一览表 Suitable motor brand

品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	200	220	ECMA-C20807ES	ASD-B20721-B



电机外置直连/电机外置下方
Motor external direct connection/Motor external under below

M 电机外置直连 Motor external direct connection



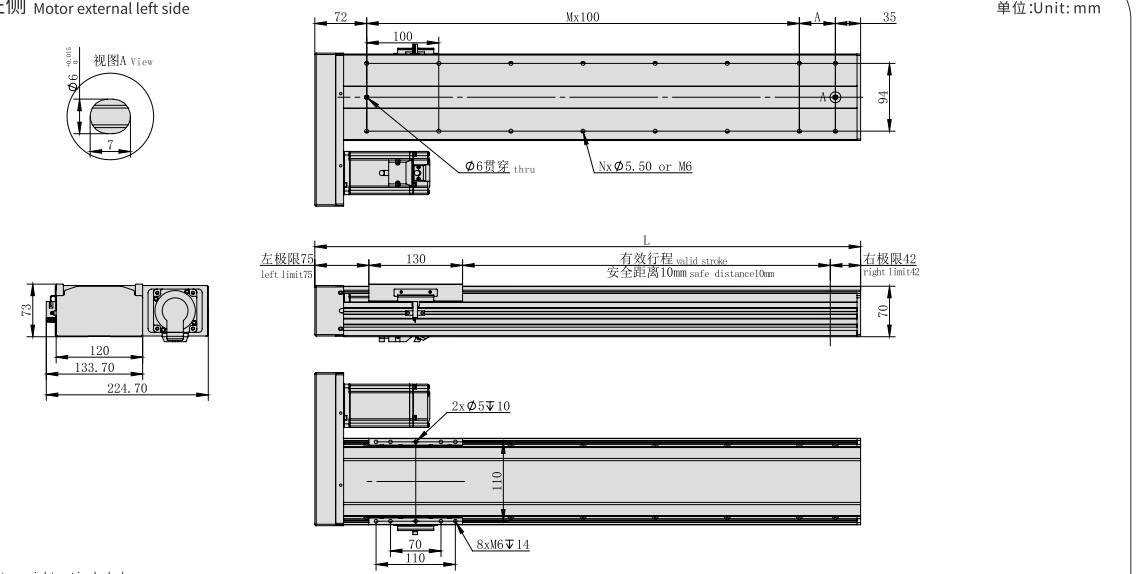
*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
N	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
M	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
KG	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.8

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左侧/电机外置右侧
Motor external left side / Motor external right side

ML 电机外置左侧 Motor external left side

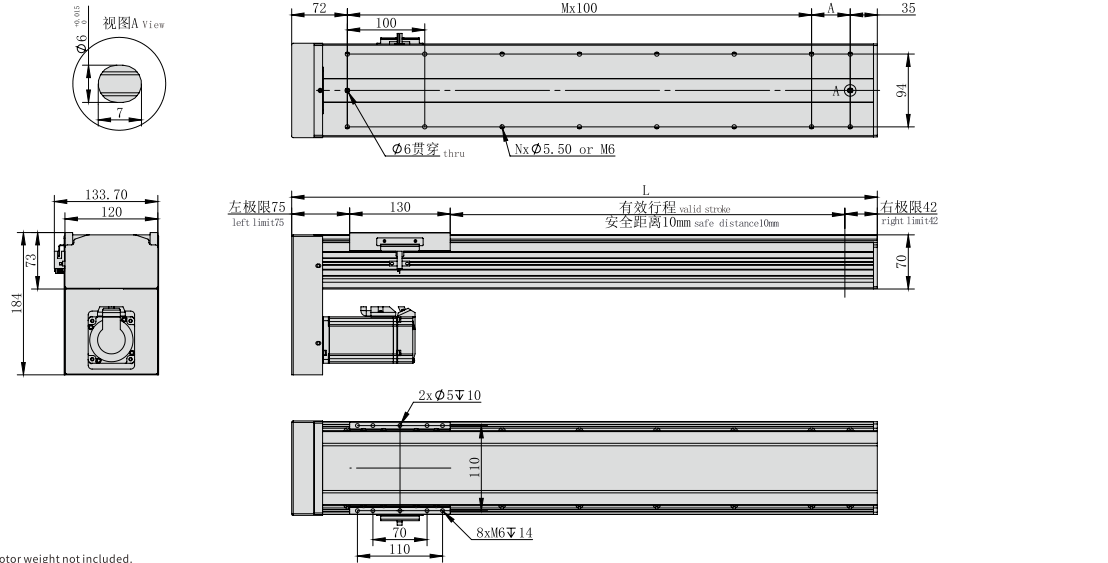


*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	357	407	457	507	557	607	657	707	757	807	857	907	957	1007	1057	1107	1157	1207	1257	1307	1357	1407	1457
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
KG	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MP 电机外置下方 Motor external under below

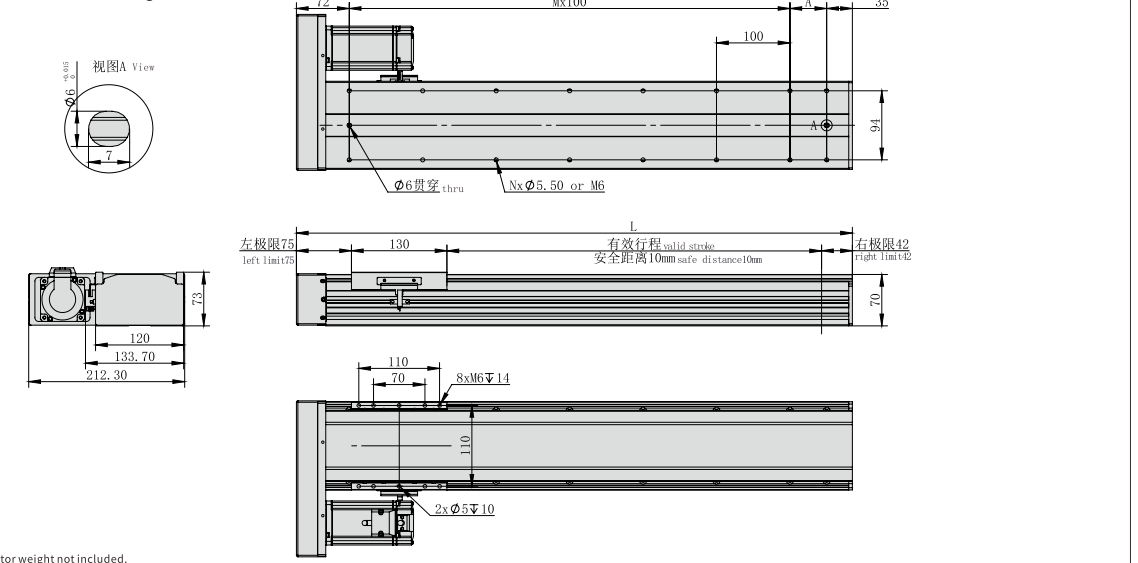


*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	357	407	457	507	557	607	657	707	757	807	857	907	957	1007	1057	1107	1157	1207	1257	1307	1357	1407	1457
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
KG	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MR 电机外置右侧 Motor external right side



*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	357	407	457	507	557	607	657	707	757	807	857	907	957	1007	1057	1107	1157	1207	1257	1307	1357	1407	1457
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
KG	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR

参考资料
Reference data



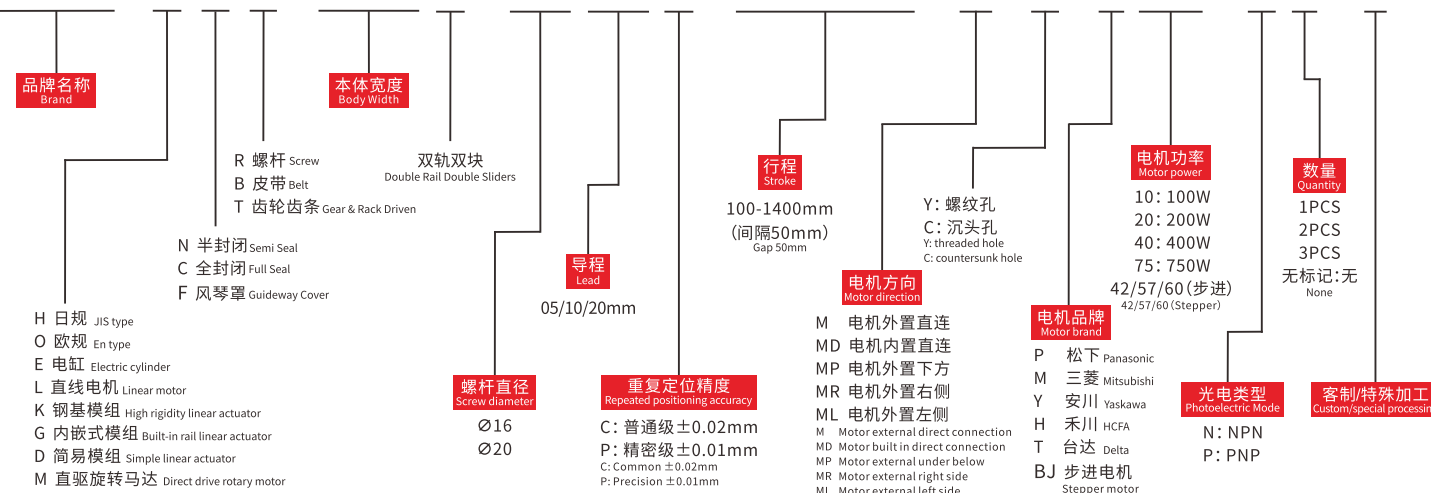
重复精度
Repeat Accuracy
±0.02
mm

此图仅供参考, 出货规格详见尺寸图面
This picture for reference only, specs details according with the drawing.

- 最大行程 Max stroke: 1400mm
- 最高速度 Max speed: 1000mm/s
- 马达容量 Motor output: 400W
- 滚珠螺杆 Ball screw: Ø20mm
- 直线滑轨 Linear guide: 15X12.5-2支

型号表达方式 Ordering method

TPA-HNR-140D-2010C-L1400-M-Y-P40-N3-F

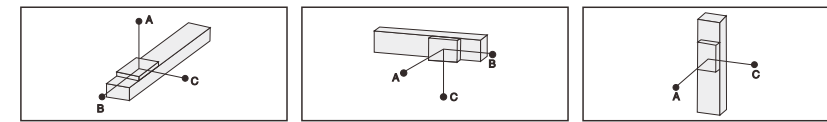


产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率(W) Motor power(W)	400			
	额定扭矩(N.M) Rated torque(N.M)	1.3			
	重复定位精度(mm) Repeated positioning accuracy(mm)	±0.02			
	导程(mm) Lead(mm)	5	10	20	
	最高速度(mm/s) Maximum speed(mm/s)	250	500	1000	
部 品 Parts	电机额定转速(RPM) Rated speed of motor(RPM)	3000			
	最大可搬重量 Maximum Payload	水平使用(kg) Horizontal(kg)	70	35	18
		垂直使用(kg) Vertical(kg)	31	16	8
	定格推力(N) Rated thrust(N)	1250	625	312	
	标准行程(mm) Stroke pitch(mm)	100~1400mm/50 间隔 50 mm Pitch			
滚珠螺杆外径(mm) Ball screw Ø(mm)	Ø20				
部 品 Parts	基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1			
	安装面精度要求(mm) Accuracy requirements of installation surface(mm)	C级<0.05;P级<0.02 C level<0.05 P level<0.02			
	使用环境 Operating environment	0~40°C,85%RH(无凝结) No condensation			

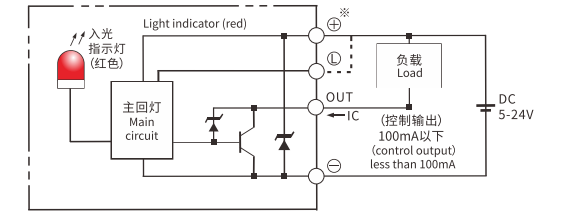
注1: 使用非上述功率电机时请依据实际参数推算。
Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be reduced appropriately. Generally, the speed should be reduced by 10~15% for every 100mm increase of the screw.

容许负载力矩表 N.m Allowable overhang

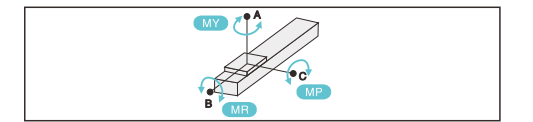


(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)							
水平安装 Horizontal installation				侧面安装 Side mounting				垂直安装 Vertical installation							
导程 Lead	A	B	C	导程 Lead	A	B	C	导程 Lead	A	B	C				
5	60kg	2515	242	232	5	55kg	257	269	2883	5	15kg	1118	1118		
	80kg	1811	172	164		10	75kg	178	186		2000	10	22kg	770	770
	95kg	1537	138	133			20	95kg	133		138		1537	20	27kg
10	30kg	2727	470	430	10	35kg		363	395	2368	10	10kg	1500		1500
	50kg	1577	266	242		20		55kg	218	238		1445	20		14kg
	75kg	1004	164	150			20	75kg	150	164		1004		20	18kg
20	10kg	2304	1222	1028	20	12kg		854	1019	2552	20	4kg	2980		2980
	22kg	1443	540	451		20		20kg	500	596		1588	20		7kg
	35kg	1005	324	271			20	35kg	271	324		1005		20	-

传感器连接图<原点及端点> Sensor layout



静态容许负载惯量 Static loading moment



(单位Unit:N.m)	
MY	551
MP	552
MR	485

*力矩表所表示的数据, 代表重心。
The torque value in the chart indicate the center of gravity.
*符合型录规范的正常试用下, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
*倒吊使用无法套用标准规范, 如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.

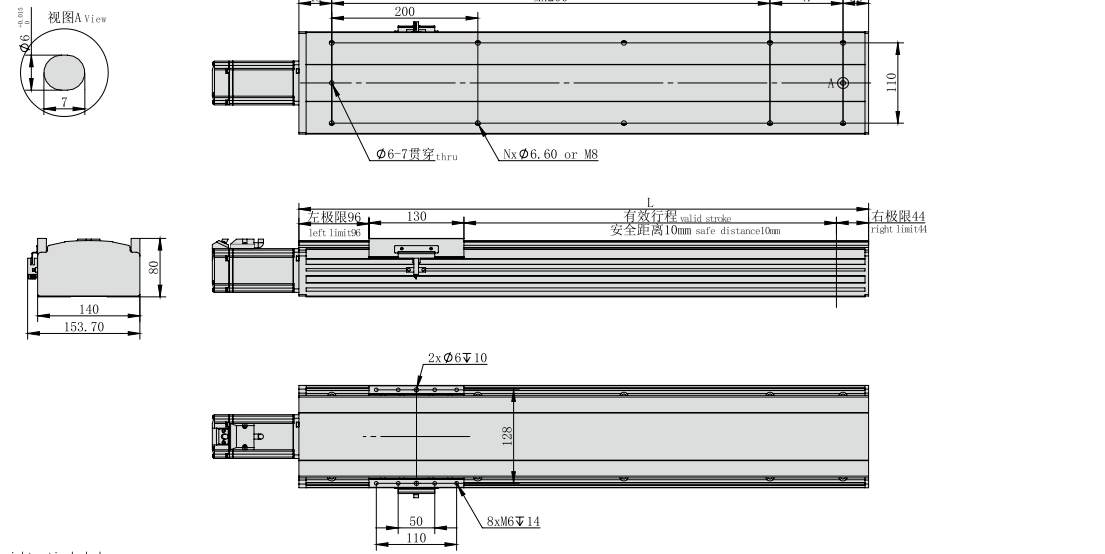
搭配伺服马达一览表 Suitable motor brand

品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	200	220	ECMA-C20807ES	ASD-B20721-B



电机外置直连/电机内置直连
Motor external direct connection/Motor built in direct connection

M 电机外置直连 Motor external direct connection



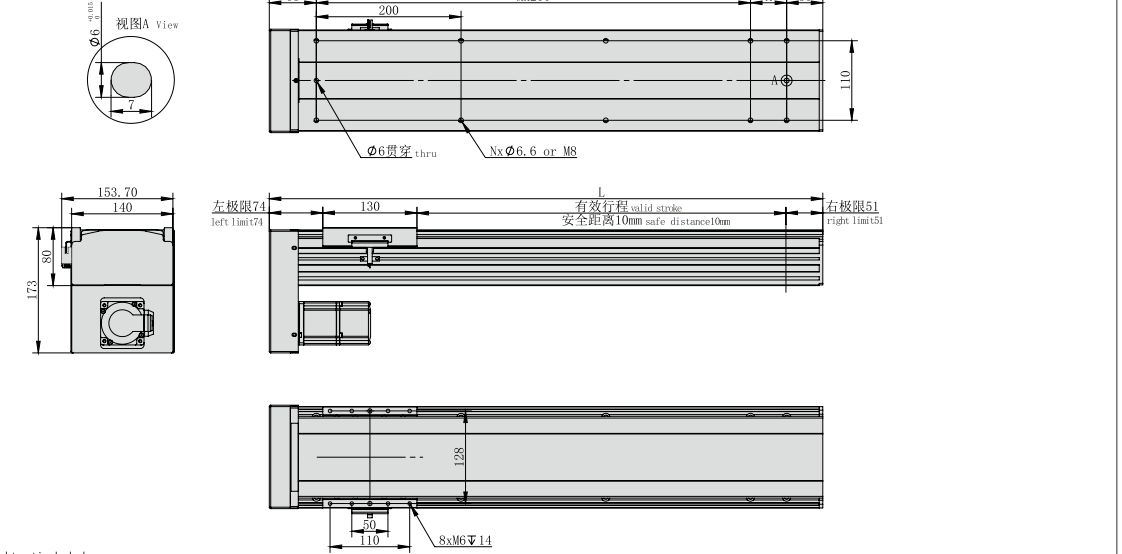
*不含电机重量。*Motor weight not included.

有效行程 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	1400
L	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680
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
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
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
KG	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置下方/电机外置左侧
Motor external under below / Motor external left side

MP 电机外置下方 Motor external under below

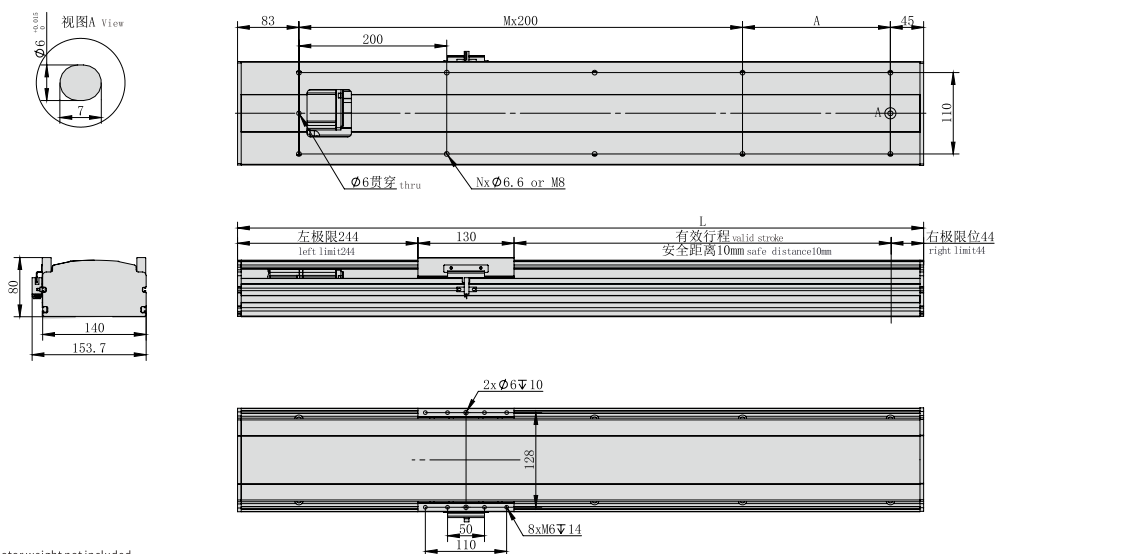


*不含电机重量。*Motor weight not included.

有效行程 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	1400
L	365	415	465	515	565	615	665	715	765	815	865	915	965	1015	1065	1115	1165	1215	1265	1315	1365	1415	1465	1515	1565	1615	1665
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
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
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
KG	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2	14.7	15.2	15.7	16.2	16.7	17.2	17.7	18.2	18.7	19.2	19.7	20.2

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MD 电机内置直连 Motor built in direct connection

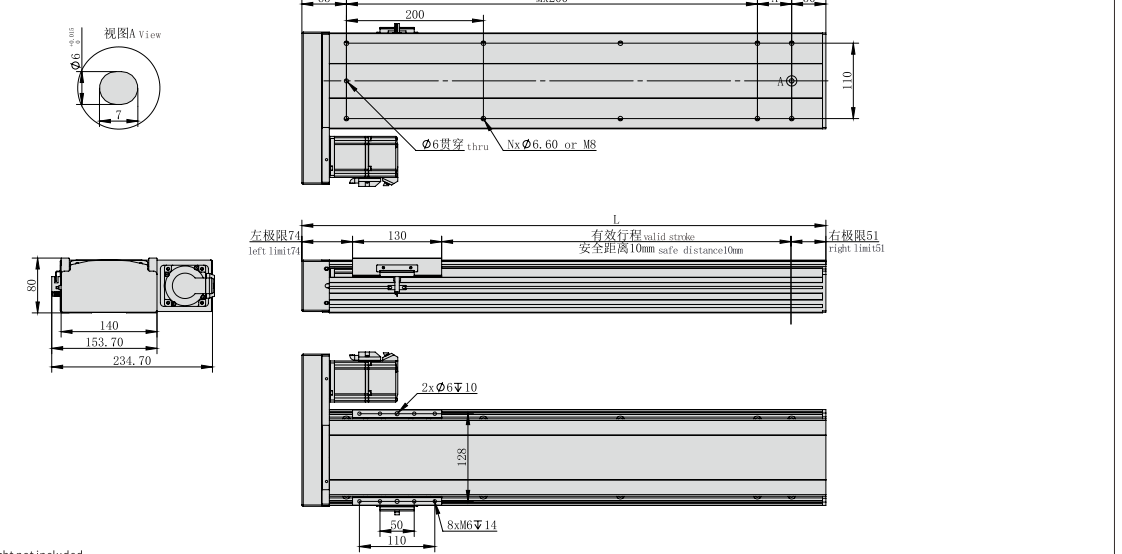


*不含电机重量。*Motor weight not included.

有效行程 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	1400
L	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778	1828
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
N	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
M	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
KG	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

ML 电机外置左侧 Motor external left side



*不含电机重量。*Motor weight not included.

有效行程 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	1400
L	365	415	465	515	565	615	665	715	765	815	865	915	965	1015	1065	1115	1165	1215	1265	1315	1365	1415	1465	1515	1565	1615	1665
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
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
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
KG	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2	14.7	15.2	15.7	16.2	16.7	17.2	17.7	18.2	18.7	19.2	19.7	20.2

如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

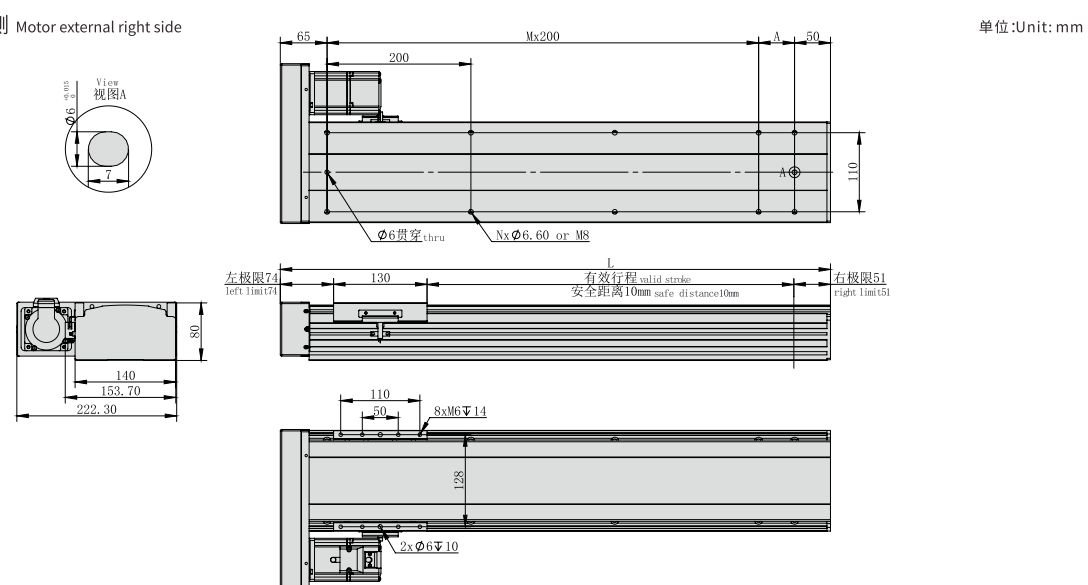
- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR

参考资料
Reference data



电机外置右侧
Motor external right side

MR 电机外置右侧 Motor external right side



单位:Unit: mm

*不含电机重量。*Motor weight not included.

有效行程 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	1400
L	365	415	465	515	565	615	665	715	765	815	865	915	965	1015	1065	1115	1165	1215	1265	1315	1365	1415	1465	1515	1565	1615	1665
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
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
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
KG	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2	14.7	15.2	15.7	16.2	16.7	17.2	17.7	18.2	18.7	19.2	19.7	20.2

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MEMO

HNR

HCR

HNB

HCB

HNT

XYZ

ONB

OCB

GCR

GCB

GCBS

GCRS

ESR

EMR

EHR

KSR

LNP

DDR

参考资料
Reference data



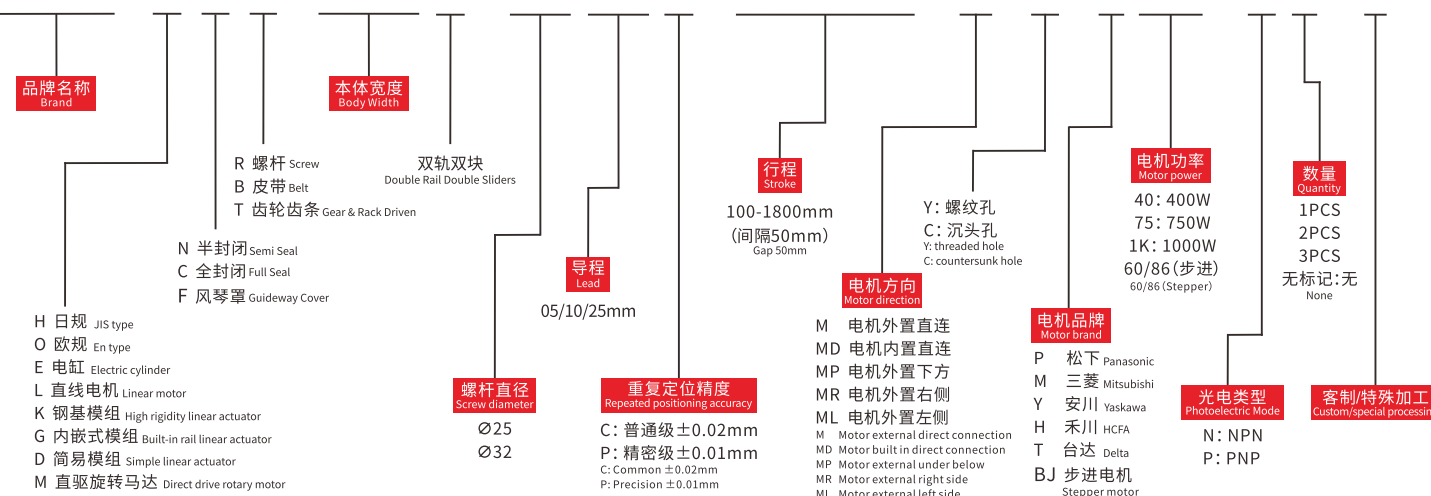
重复精度
Repeat Accuracy
±0.02 mm

此图仅供参考, 出货规格详见尺寸图面
This picture for reference only, specs details according with the drawing.

- 最大行程 Max stroke: 1800mm
- 最高速度 Max speed: 1250mm/s
- 马达容量 Motor output: 750W
- 滚珠螺杆 Ball screw: Ø25mm
- 直线滑轨 Linear guide: 20X15.5-2支

型号表达方式 Ordering method

TPA-HNR-175D-2510C-L1800-M-Y-P75-N3-F



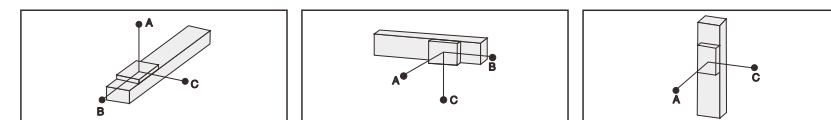
产品性能参数如下 Product performance parameters are as follows

电机功率 (W) Motor power (W)	750		
额定扭矩 (N.M) Rated torque (N.M)	2.4		
重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.02		
导程 (mm) Lead (mm)	5	10	25
最高速度 (mm/s) Maximum speed (mm/s)	250	500	1250
电机额定转速 (RPM) Rated speed of motor (RPM)	3000		
最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	130	110
	垂直使用 (kg) Vertical (kg)	58	48
定格推力 (N) Rated thrust (N)	2306	1153	577
标准行程 (mm) Stroke pitch (mm)	100~1800mm/50 间隔 50 mm Pitch		
滚珠螺杆外径 (mm) Ball screw Ø (mm)	Ø25		
基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1		
安装面精度要求 (mm) Accuracy requirements of installation surface (mm)	C级<0.05; P级<0.02 C Level<0.05 P Level<0.02		
使用环境 Operating environment	0~40°C, 85%RH (无凝结) No condensation		

注1: 使用非上述功率电机时请依据实际参数推算。
Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.

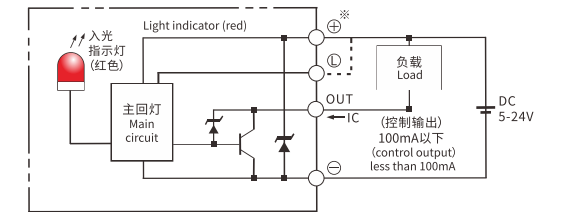
注2: 最高速度因行程和负载而异, 当螺距细长比大于1:50时, 可能会因螺距临界速度产生共振和抖动, 应适当下调运行速度, 一般螺距每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be reduced appropriately. Generally, the speed should be reduced by 10~15% for every 100mm increase of the screw.

容许负载力矩表 N.m Allowable overhang



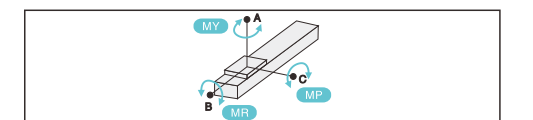
水平安装 Horizontal installation (单位Unit:mm)				侧面安装 Side mounting (单位Unit:mm)				垂直安装 Vertical installation (单位Unit:mm)							
导程 Lead	重量 Weight	A	B	C	导程 Lead	重量 Weight	A	B	C	导程 Lead	重量 Weight	A	C		
5	70kg	3235	349	408	5	75kg	377	322	2988	5	20kg	1368	1368		
	90kg	2482	263	306		5	95kg	288	246		2333	5	30kg	911	911
	120kg	1861	187	218			10	120kg	218		187		1850	10	50kg
10	65kg	1911	338	373	10	60kg		408	368	2092	10	15kg	1618		1618
	85kg	1445	248	276		10		80kg	296	266		1554	10		25kg
25	120kg	1000	164	182	25		120kg	182	164	1002	25	40kg		607	607
	35kg	1666	547	538		25	30kg	633	644	1961		25	10kg	1922	1922
	55kg	1030	331	328			25	50kg	365	369			1143	25	14kg
83kg	654	206	204	83kg	204	206		656	83kg	204	206	656	25kg		769

传感器连接图<原点及端点> Sensor layout



- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR
- 参考资料 Reference data

静态容许负载惯量 Static loading moment



点 Point	惯量 Inertia (单位Unit:N.m)
MY	1032
MP	1034
MR	908

*力矩表所表示的数据, 代表重心。
The torque value in the chart indicate the center of gravity.
*符合型录规范的正常试用下, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
*倒吊使用无法套用标准规范, 如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.

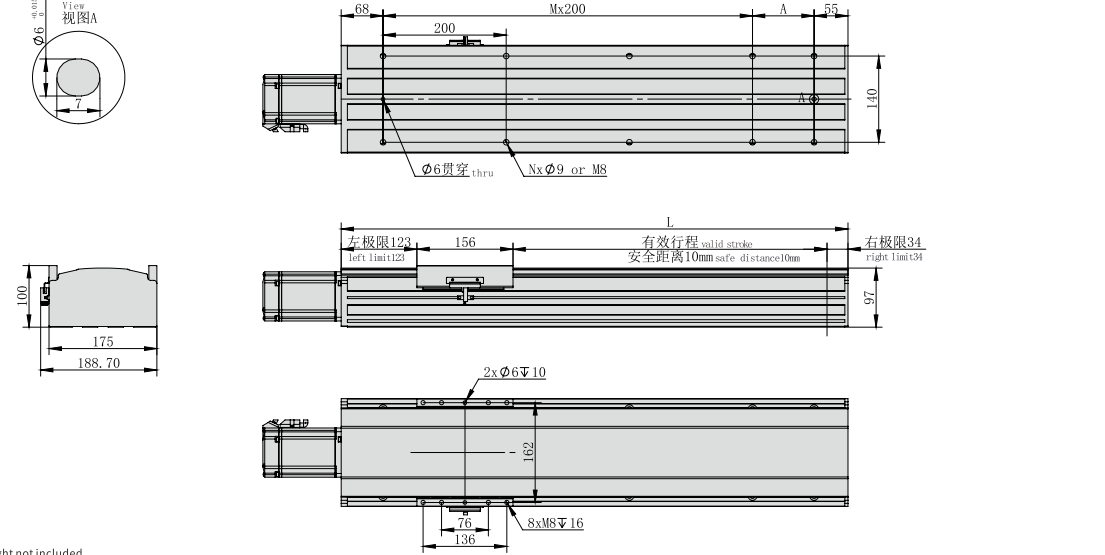
搭配伺服马达一览表 Suitable motor brand

品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	200	220	ECMA-C20807ES	ASD-B20721-B



电机外置直连/电机内置直连
Motor external direct connection/Motor built in direct connection

M 电机外置直连 Motor external direct connection



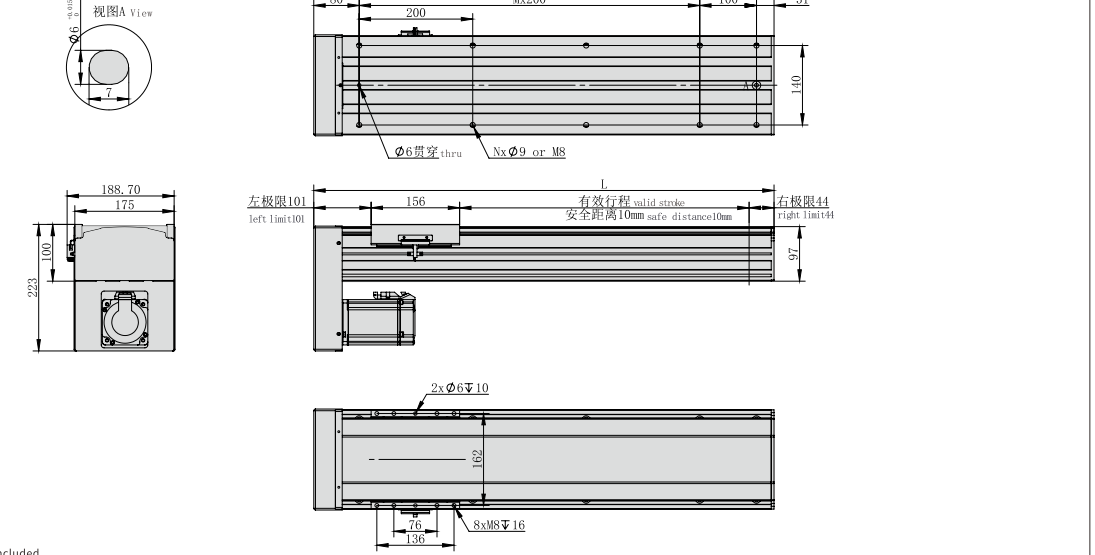
*不含电机重量。*Motor weight not included.

有效行程 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	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	1323	1373	1423	1473	1523	1573	1623	1673	1723	1773	1823	1873	1923	1973	2023	2073	2123
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	50	100	150	200
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	22	22	22	22
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	9	9	9	9
KG	13.5	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5	25.5	26.5	27.5	28.5	29.5	30.5	31.5	32.5	33.5	34.5	35.5	36.5	37.5	38.5	39.5	40.5	41.5	42.5	43.5	44.5	45.5	46.5	47.5

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置下方/电机外置左侧
Motor external under below / Motor external left side

MP 电机外置下方 Motor external under below

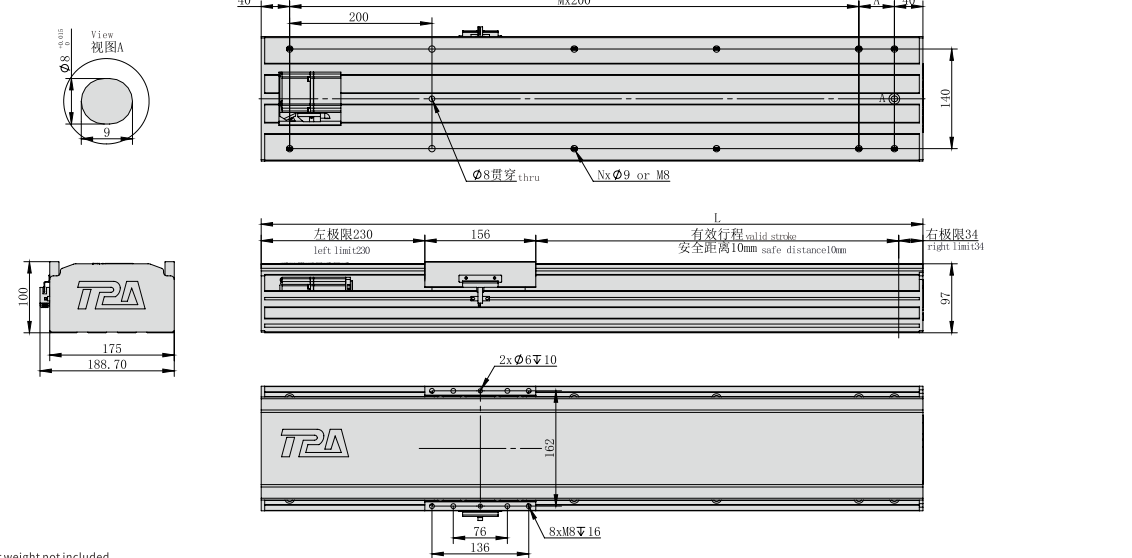


*不含电机重量。*Motor weight not included.

有效行程 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	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	411	461	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	1861	1911	1961	2011	2061	2111
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	50	100	150	200
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	22	22	22	22
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	9	9	9	9
KG	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MD 电机内置直连 Motor built in direct connection

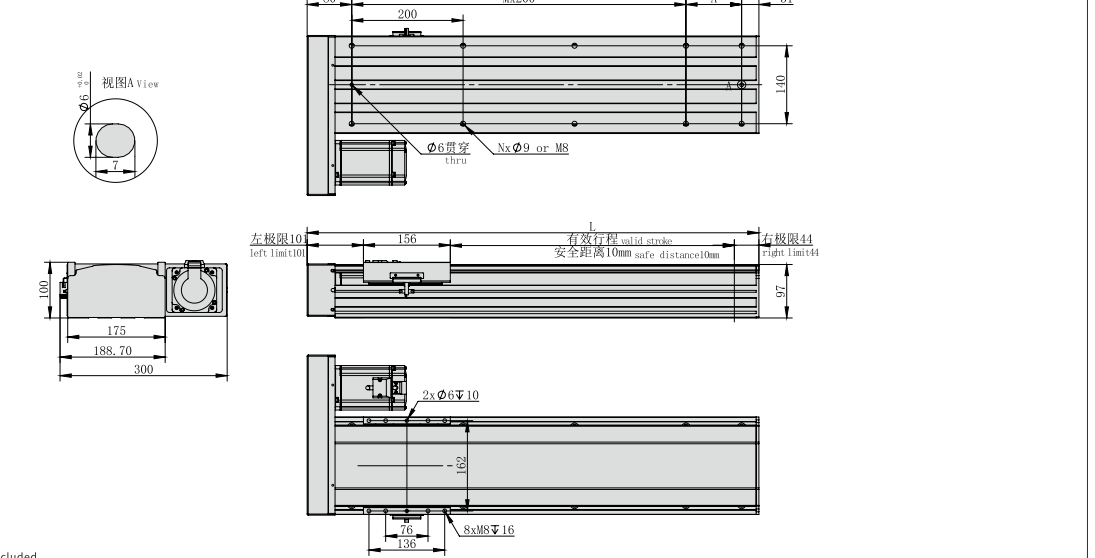


*不含电机重量。*Motor weight not included.

有效行程 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	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780	1830	1880	1930	1980	2030	2080	2130	2180	2230
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	200	50	100	150
N	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	22	22	22	22	24	24	24
M	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	9	10	10	10
KG	14.8	15.8	16.8	17.8	18.8	19.8	20.8	21.8	22.8	23.8	24.8	25.8	26.8	27.8	28.8	29.8	30.8	31.8	32.8	33.8	34.8	35.8	36.8	37.8	38.8	39.8	40.8	41.8	42.8	43.8	44.8	45.8	46.8	47.8	48.8

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

ML 电机外置左侧 Motor external left side



*不含电机重量。*Motor weight not included.

有效行程 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	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	411	461	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	1861	1911	1961	2011	2061	2111
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	50	100	150	200
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	22	22	22	22
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	9	9	9	9
KG	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

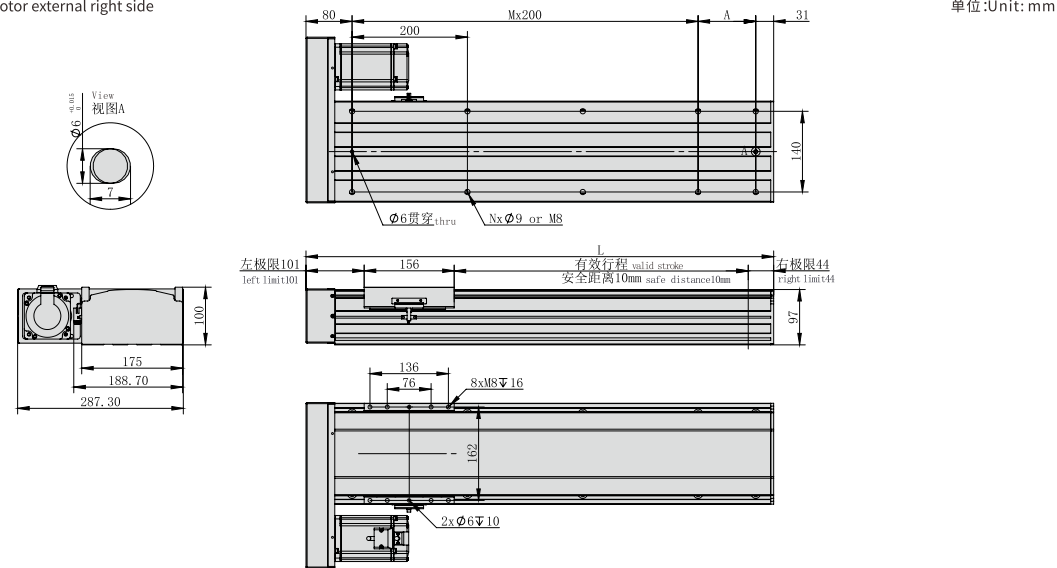
- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR

参考资料
Reference data



电机外置右侧
Motor external right side

MR 电机外置右侧 Motor external right side



单位:Unit: mm

*不含电机重量。*Motor weight not included.

有效行程 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	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	411	461	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	1861	1911	1961	2011	2061	2111
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	50	100	150	200
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	22	22	22	22
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	9	9	9	9
KG	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MEMO

HNR

HCR

HNB

HCB

HNT

XYZ

ONB

OCB

GCR

GCB

GCBS

GCRS

ESR

EMR

EHR

KSR

LNP

DDR

参考资料

Reference

data



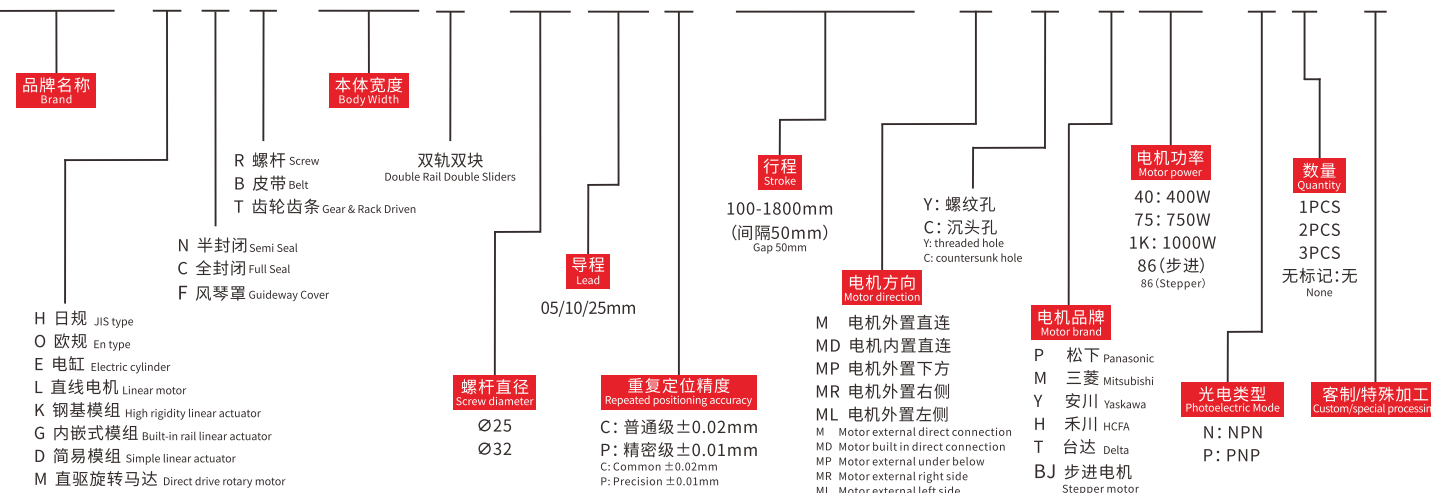
重复精度
Repeat Accuracy
±0.02
mm

此图仅供参考, 出货规格详见尺寸图面
This picture for reference only, specs details according with the drawing.

- 最大行程 Max stroke: 1800mm
- 最高速度 Max speed: 1250mm/s
- 马达容量 Motor output: 750W
- 滚珠螺杆 Ball screw: Ø25mm
- 直线滑轨 Linear guide: 23X22-2支

型号表达方式 Ordering method

TPA-HNR-202D-2510C-L1800-M-Y-P75-N3-F

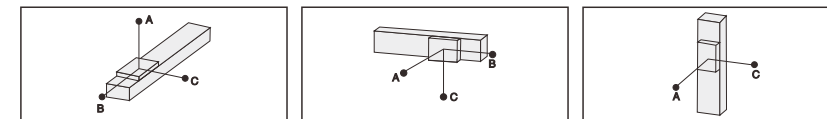


产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率(W) Motor power(W)	750		
	额定扭矩(N.M) Rated torque(N.M)	2.4		
	重复定位精度(mm) Repeated positioning accuracy(mm)	±0.02		
	导程(mm) Lead(mm)	5	10	25
	最高速度(mm/s) Maximum speed(mm/s)	250	500	1250
部 品 Parts	电机额定转速(RPM) Rated speed of motor(RPM)	3000		
	最大可搬重量 Maximum Payload	水平使用(kg) Horizontal(kg)	160	64
		垂直使用(kg) Vertical(kg)	58	19
	定格推力(N) Rated thrust(N)	2306	1153	577
	标准行程(mm) Stroke pitch(mm)	100~1800mm/50 间隔 50 mm Pitch		
滚珠螺杆外径(mm) Ball screw Ø(mm)	Ø25			
部 品 Parts	基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1		
	安装面精度要求(mm) Accuracy requirements of installation surface(mm)	C级<0.05;P级<0.02 C level<0.05 P level<0.02		
	使用环境 Operating environment	0~40°C,85%RH(无凝结) No condensation		

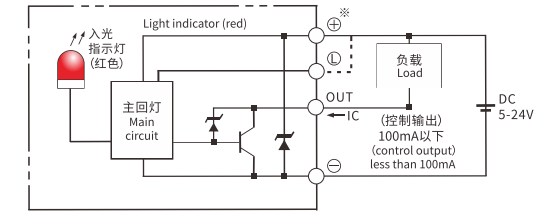
注1: 使用非上述功率电机时请依据实际参数推算。
Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be reduced appropriately. Generally, the speed should be reduced by 10~15% for every 100mm increase of the screw.

容许负载力矩表 N.m Allowable overhang

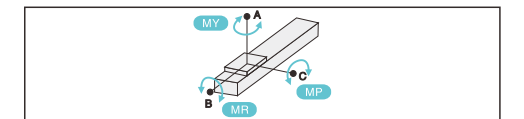


水平安装 Horizontal installation				侧面安装 Side mounting				垂直安装 Vertical installation							
导程 Lead	重量 Weight	A	B	导程 Lead	重量 Weight	A	B	导程 Lead	重量 Weight	A	C				
5	40kg	1000	400	580	5	40kg	380	380	1000	5	10kg	1200	1200		
	80kg	780	230	350		10	80kg	190	250		740	10	20kg	710	710
	100kg	680	185	230			25	100kg	140		190		620	25	30kg
10	40kg	900	350	505	10	40kg		250	310	860	10	8kg	1000		1000
	80kg	710	200	300		25		80kg	130	170		620	25		18kg
	100kg	610	160	200			25	100kg	90	130		500		25	27kg
25	20kg	1100	600	500	25	20kg		350	350	700	25	5kg	1100		1100
	40kg	790	370	300		Lead		40kg	200	205		470	Lead		10kg
	60kg	670	250	190			Lead	60kg	120	130		370		Lead	-

传感器连接图<原点及端点> Sensor layout



静态容许负载惯量 Static loading moment



力矩点	惯量 (N.m)
MY	2052
MP	2052
MR	1810

*力矩表所表示的数据, 代表重心。
The torque value in the chart indicate the center of gravity.
*符合型录规范的正常试用下, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
*倒吊使用无法套用标准规范, 如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.

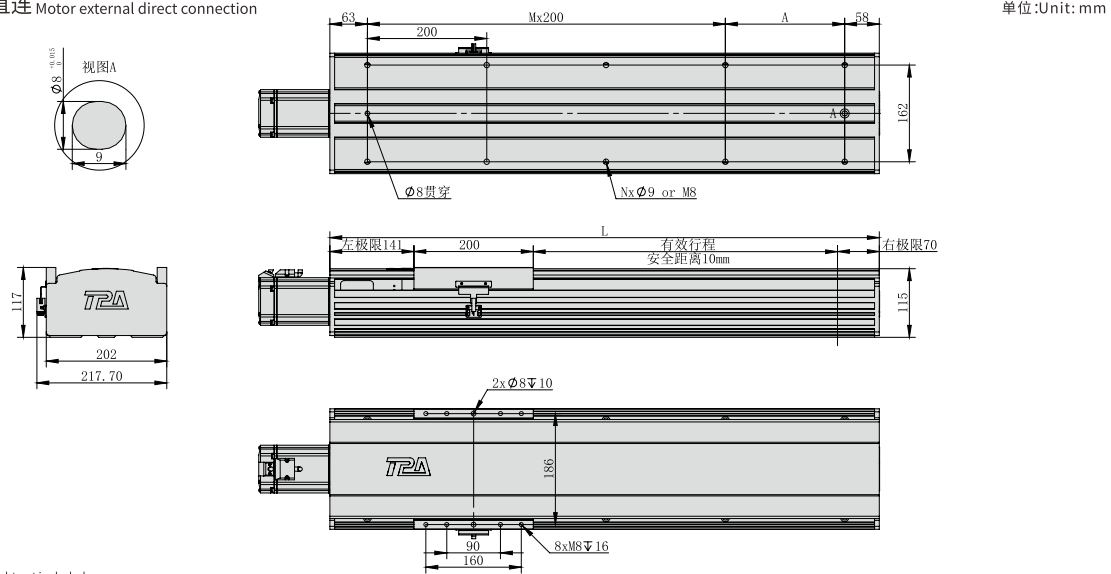
搭配伺服马达一览表 Suitable motor brand

品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	200	220	ECMA-C20807ES	ASD-B20721-B



电机外置直连/电机内置直连
Motor external direct connection/Motor built in direct connection

M 电机外置直连 Motor external direct connection



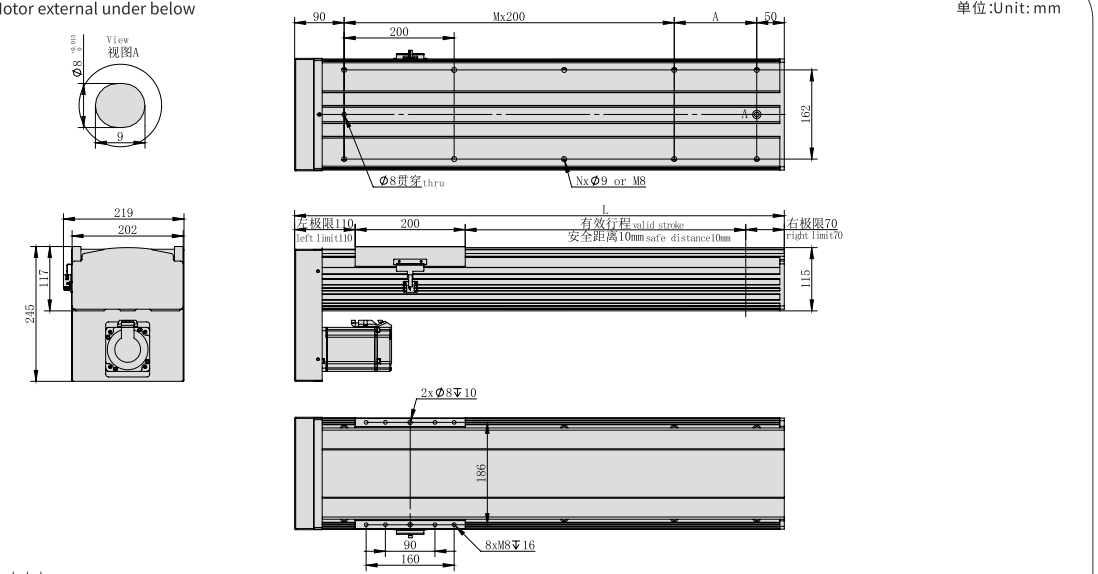
*不含电机重量。*Motor weight not included.

有效行程 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	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	521	571	621	671	721	771	821	871	921	971	1021	1071	1121	1171	1221	1271	1321	1371	1421	1471	1521	1571	1621	1671	1721	1771	1821	1871	1921	1971	2021	2071	2121	2171	2221
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	150	200	50	100
N	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	22	22	22	22	24	24
M	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	9	10	10
KG	21	22.5	24	25.5	27	28.5	30	31.5	33	34.5	36	37.5	39	40.5	42	43.5	45	46.5	48	49.5	51	52.5	54	55.5	57	58.5	60	61.5	63	64.5	66	67.5	69	70.5	72

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置下方/电机外置左侧
Motor external under below / Motor external left side

MP 电机外置下方 Motor external under below

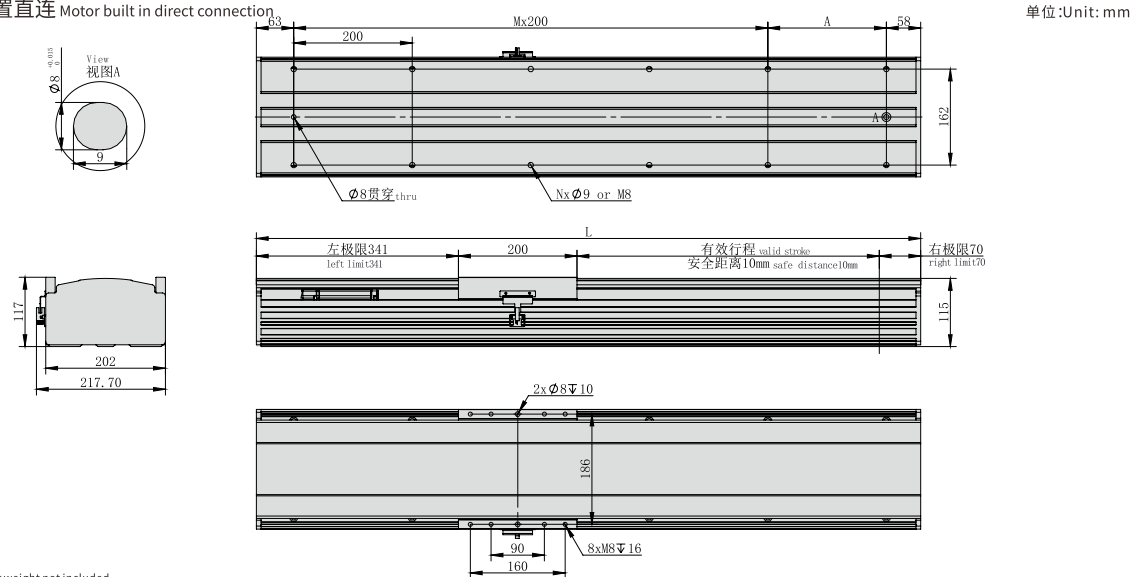


*不含电机重量。*Motor weight not included.

有效行程 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	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090	2140	2190
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	50	100	150	200	50
N	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	22	22	22	22	24
M	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	9	10
KG	23	24.5	26	27.5	29	30.5	32	33.5	35	36.5	38	39.5	41	42.5	44	45.5	47	48.5	50	51.5	53	54.5	56	57.5	59	60.5	62	63.5	65	66.5	68	69.5	71	72.5	74

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MD 电机内置直连 Motor built in direct connection

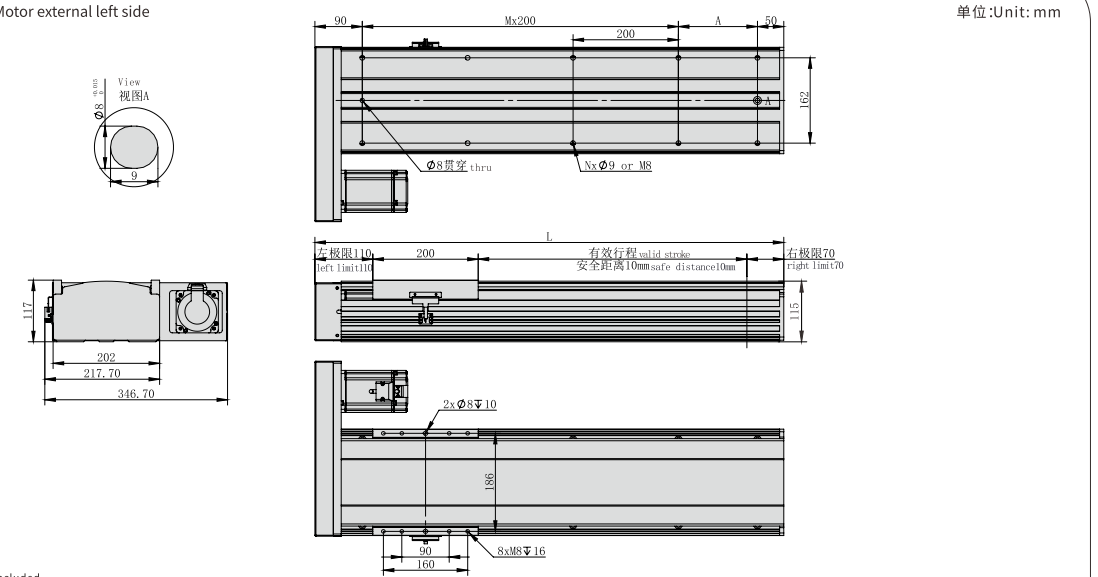


*不含电机重量。*Motor weight not included.

有效行程 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	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	721	771	821	871	921	971	1021	1071	1121	1171	1221	1271	1321	1371	1421	1471	1521	1571	1621	1671	1721	1771	1821	1871	1921	1971	2021	2071	2121	2171	2221	2271	2321	2371	2421
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	150	200	50	100
N	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	22	22	22	22	24	24	24	24	26	26
M	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	9	10	10	10	10	11	11
KG	22.5	24	25.5	27	28.5	30	31.5	33	34.5	36	37.5	39	40.5	42	43.5	45	46.5	48	49.5	51	52.5	54	55.5	57	58.5	60	61.5	63	64.5	66	67.5	69	70.5	72	73.5

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

ML 电机外置左侧 Motor external left side



*不含电机重量。*Motor weight not included.

有效行程 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	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090	2140	2190
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	50	100	150	200	50
N	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	22	22	22	22	24
M	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	9	10
KG	23	24.5	26	27.5	29	30.5	32	33.5	35	36.5	38	39.5	41	42.5	44	45.5	47	48.5	50	51.5	53	54.5	56	57.5	59	60.5	62	63.5	65	66.5	68	69.5	71	72.5	74

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

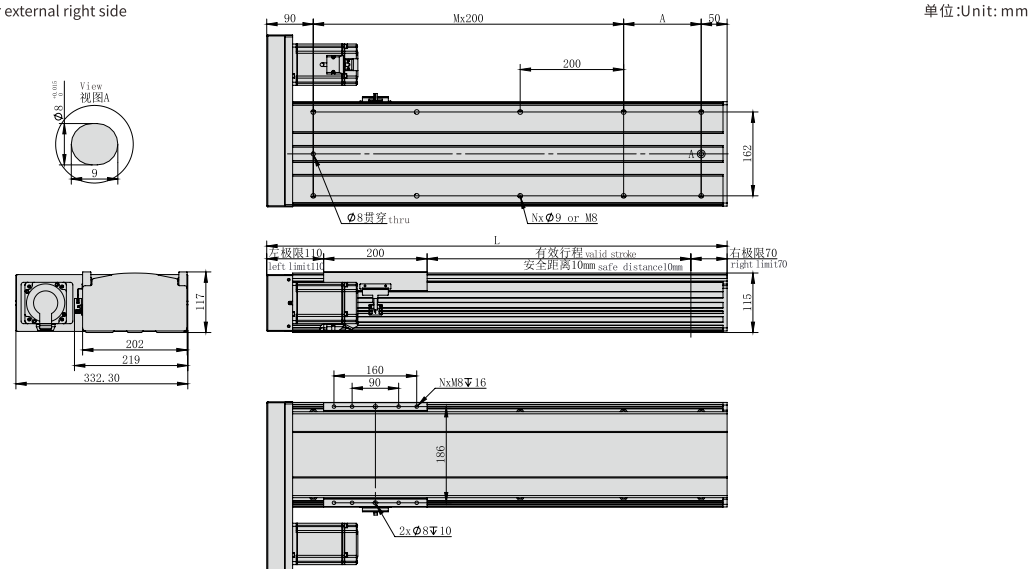
- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR

参考资料
Reference data



电机外置右侧
Motor external right side

MR 电机外置右侧 Motor external right side



*不含电机重量。*Motor weight not included.

有效行程 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	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	1540	1590	1640	1690	1740	1790	1840	1890	1940	1990	2040	2090	2140	2190
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	50	100	150	200	50
N	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	22	22	22	22	24
M	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	9	10
KG	23	24.5	26	27.5	29	30.5	32	33.5	35	36.5	38	39.5	41	42.5	44	45.5	47	48.5	50	51.5	53	54.5	56	57.5	59	60.5	62	63.5	65	66.5	68	69.5	71	72.5	74

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MEMO

- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR
- 参考资料
Reference data



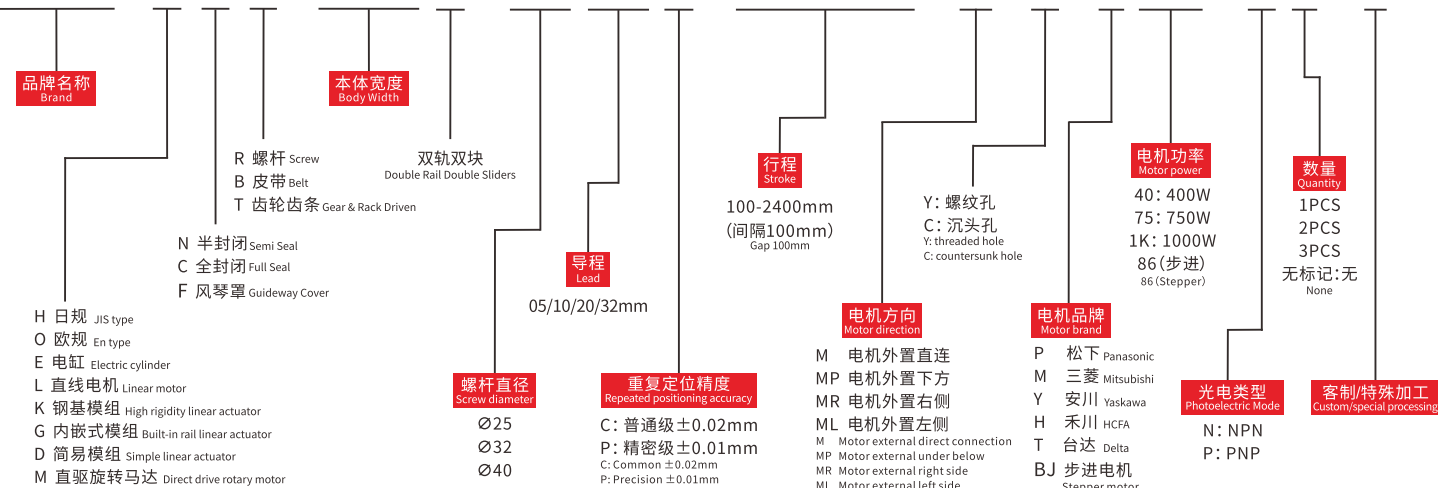
重复精度
Repeat Accuracy
±0.02
mm

此图仅供参考, 出货规格详见尺寸图面
This picture for reference only, specs details according with the drawing.

- 最大行程 Max stroke: 2400mm
- 最高速度 Max speed: 1600mm/s
- 马达容量 Motor output: 1000W
- 滚珠螺杆 Ball screw: Ø32mm
- 直线滑轨 Linear guide: 23X22-2支

型号表达方式 Ordering method

TPA-HNR-220D-3210C-L2400-M-Y-P1K-N3-F



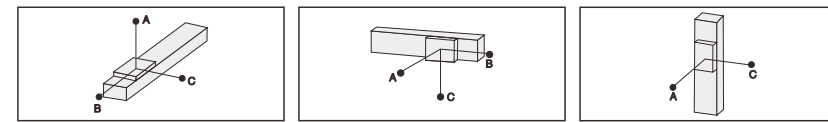
产品性能参数如下 Product performance parameters are as follows

电机功率 (W) Motor power (W)	1000				
额定扭矩 (N.M) Rated torque (N.M)	3.2				
重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.02				
导程 (mm) Lead (mm)	5	10	20	32	
最高速度 (mm/s) Maximum speed (mm/s)	250	500	1000	1600	
电机额定转速 (RPM) Rated speed of motor (RPM)	3000				
最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	180	170	105	66
	垂直使用 (kg) Vertical (kg)	100	80	40	25
定格推力 (N) Rated thrust (N)	2306	1153	577	461	
标准行程 (mm) Stroke pitch (mm)	100~2400mm/100 间隔100mm Pitch				
滚珠螺杆外径 (mm) Ball screw Ø (mm)	Ø32				
基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1				
安装面精度要求 (mm) Accuracy requirements of installation surface (mm)	C级<0.05; P级<0.02 C level<0.05 P level<0.02				
使用环境 Operating environment	0~40°C, 85%RH (无凝结) No condensation				

注1: 使用非上述功率电机时请依据实际参数推算。
Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.

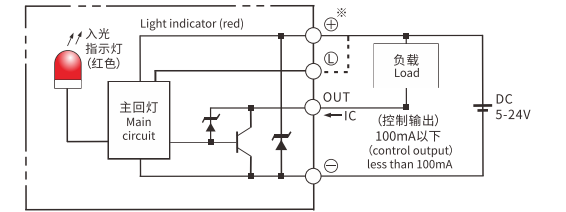
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be reduced appropriately. Generally, the speed should be reduced by 10~15% for every 100mm increase of the screw.

容许负载力矩表 N.m Allowable overhang



(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)			
水平安装 Horizontal installation				侧面安装 Side mounting				垂直安装 Vertical installation			
	A	B	C		A	B	C		A	C	
导程 5 Lead	100kg	5000	633	557	110kg	500	569	4500	30kg	2355	2355
	125kg	3880	491	431	130kg	412	469	3711	40kg	1768	1768
	150kg	3357	396	347	150kg	347	396	3357	55kg	1288	1288
导程 10 Lead	100kg	3220	563	474	110kg	427	503	2900	25kg	2505	2505
	125kg	3554	434	367	130kg	351	414	2444	35kg	1795	1795
	150kg	2113	349	295	150kg	295	349	2113	45kg	1396	1396
导程 20 Lead	65kg	1522	614	458	70kg	420	564	1404	15kg	2711	2711
	85kg	1136	451	336	90kg	315	420	1066	20kg	2033	2033
	105kg	893	350	262	105kg	262	350	893	-	-	-
导程 32 Lead	18kg	2445	1616	1052	15kg	1272	1955	2948	7kg	3511	3511
	30kg	1436	938	613	24kg	778	1190	1813	12kg	2055	2055
	43kg	978	630	412	43kg	412	630	978	-	-	-

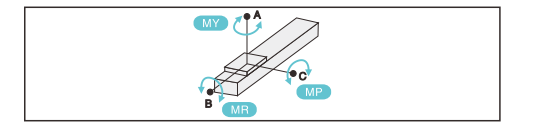
感应器连接图<原点及端点> Sensor layout



- HNR
- HCR
- HNB
- HCB
- HNT
- XYZ
- ONB
- OCB
- GCR
- GCB
- GCBS
- GCRS
- ESR
- EMR
- EHR
- KSR
- LNP
- DDR

参考资料
Reference data

静态容许负载惯量 Static loading moment



(单位Unit:N.m)	
MY	2052
MP	2052
MR	1810

*力矩表所表示的数据, 代表重心。
The torque value in the chart indicate the center of gravity.
*符合型录规范的正常试用下, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
*倒吊使用无法套用标准规范, 如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.

搭配伺服马达一览表 Suitable motor brand

品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	200	220	ECMA-C20807ES	ASD-B20721-B



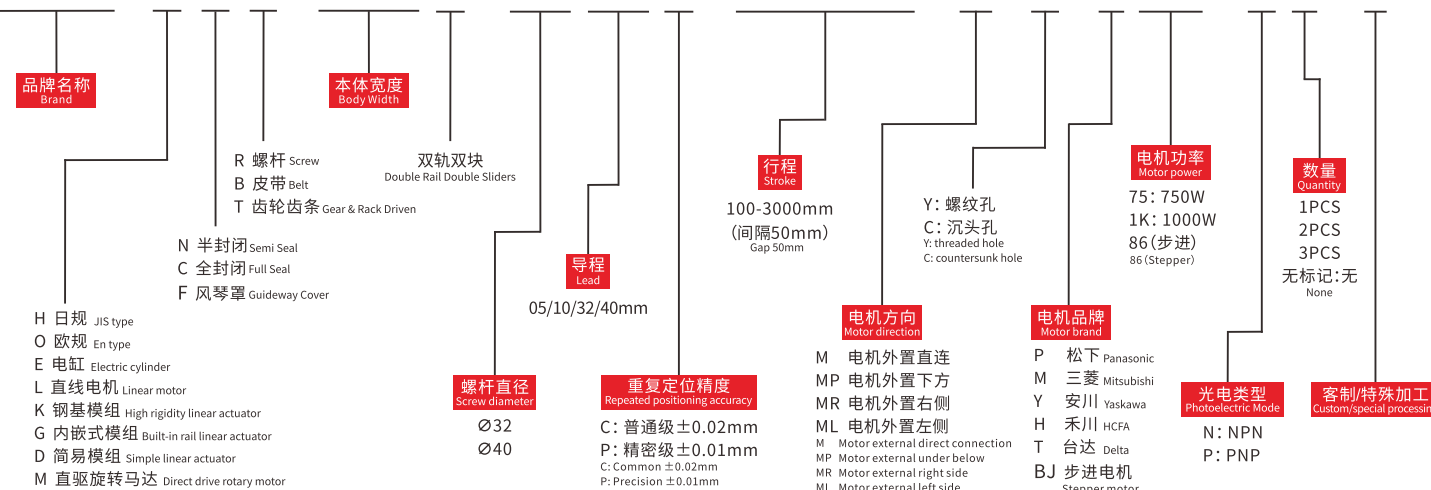
重复精度
Repeat Accuracy
±0.02
mm

此图仅供参考, 出货规格详见尺寸图面
This picture for reference only, specs details according with the drawing.

- 最大行程 Max stroke: 3000mm
- 最高速度 Max speed: 2000mm/s
- 马达容量 Motor output: 1000W
- 滚珠螺杆 Ball screw: Ø40mm
- 直线滑轨 Linear guide: 23X22-2支

型号表达方式 Ordering method

TPA-HNR-270D-4010C-L3000-M-Y-P1K-N3-F

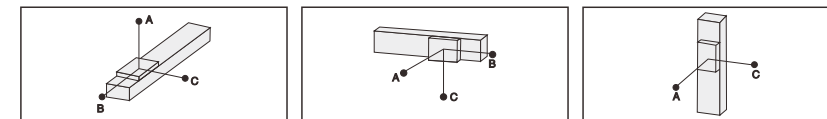


产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率(W) Motor power(W)	1000			
	额定扭矩(N.M) Rated torque(N.M)	3.2			
	重复定位精度(mm) Repeated positioning accuracy(mm)	±0.02			
	导程(mm) Lead(mm)	5	10	20	40
	最高速度(mm/s) Maximum speed(mm/s)	250	500	1000	2000
	电机额定转速(RPM) Rated speed of motor(RPM)	3000			
最大可搬重量 Maximum Payload	水平使用(kg) Horizontal(kg)	230	200	125	78
	垂直使用(kg) Vertical(kg)	115	95	48	30
定规格推力(N) Rated thrust(N)	3195 1598 499 1598				
标准行程(mm) Stroke pitch(mm)	100~3000mm/50mm间隔 50mm Pitch				
部品 Parts	滚珠螺杆外径(mm) Ball screw Ø(mm)	Ø40			
	基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1			
	安装面精度要求(mm) Accuracy requirements of installation surface(mm)	C级<0.05;P级<0.02 C level<0.05 P level<0.02			
	使用环境 Operating environment	0~40°C,85%RH(无凝结) No condensation			

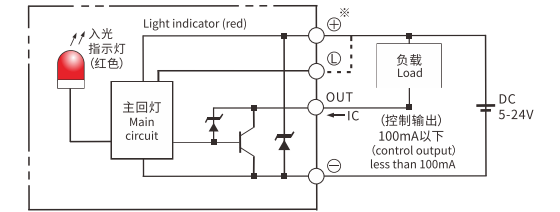
注1: 使用非上述功率电机时请依据实际参数推算。
Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be reduced appropriately. Generally, the speed should be reduced by 10~15% for every 100mm increase of the screw.

容许负载力矩表 N.m Allowable overhang

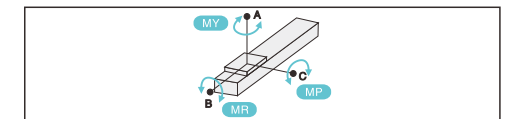


(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)			
水平安装 Horizontal installation				侧面安装 Side mounting				垂直安装 Vertical installation			
导程 Lead	A	B	C	导程 Lead	A	B	C	导程 Lead	A	B	C
5	100kg	1367	542	408	150kg	1368	541	410	64kg	980	980
10	180kg	1079	293	227	180kg	1080	293	229	80kg	670	670
	200kg	906	102	82		200kg	906	101	84	115kg	222
20	130kg	1496	772	605	130kg	1495	770	605	56kg	1811	1811
	150kg	1237	513	403		150kg	1236	513	403	70kg	1153
40	180kg	1020	248	190	180kg	1021	245	190	84kg	714	714
	90kg	1450	920	768		90kg	1451	922	766	35kg	1270
20	100kg	1217	573	453	100kg	1215	573	456	40kg	877	877
	125kg	937	395	308		125kg	937	395	307	48kg	754
40	45kg	1010	602	482	45kg	1009	605	484	20kg	1170	1175
	60kg	835	395	223		60kg	836	395	225	25kg	890
40	78kg	524	243	192	78kg	527	246	191	30kg	531	533

感应器连接图<原点及端点> Sensor layout



静态容许负载惯量 Static loading moment



(单位Unit:N.m)	
MY	3223
MP	3223
MR	2843

*力矩表所表示的数据, 代表重心。
The torque value in the chart indicate the center of gravity.
*符合型录规范的正常试用下, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
*倒吊使用无法套用标准规范, 如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.

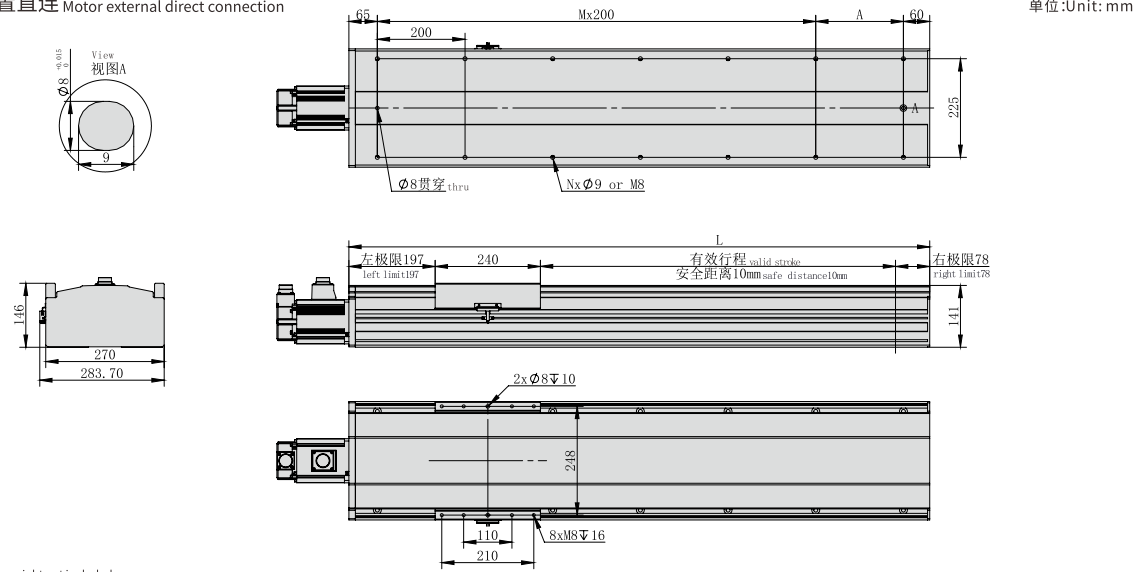
搭配伺服马达一览表 Suitable motor brand

品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	200	220	ECMA-C20807ES	ASD-B20721-B



电机外置直连/电机外置下方
Motor external direct connection/Motor external under below

M 电机外置直连 Motor external direct connection



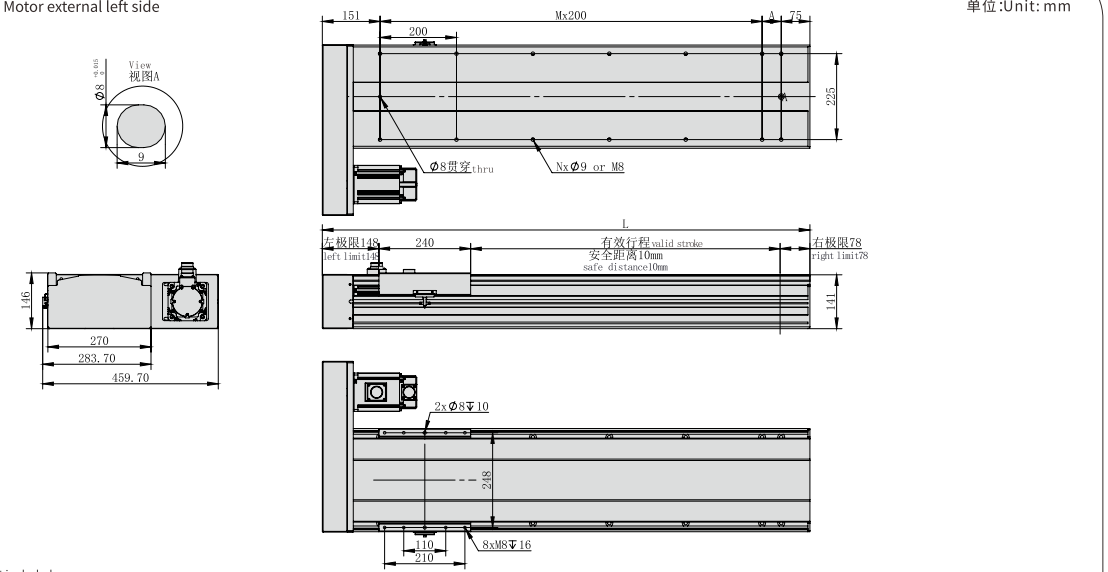
*不含电机重量。*Motor weight not included.

有效行程 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	2600	2700	2800	2900	3000
L	575	675	775	875	975	1075	1175	1275	1375	1475	1575	1675	1775	1875	1975	2075	2175	2275	2375	2475	2575	2675	2775	2875	2975	3075	3175	3275	3375	3475
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
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	32	32	34	34	36
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	14	14	16	16	18	18	20
KG	32	35.6	39.2	42.8	46.4	50	53.6	57.2	60.8	64.4	68	71.6	75.2	78.8	82.4	86	89.6	93.2	96.8	100.4	104	107.6	111.2	114.8	118.4	122	125.6	129.2	132.8	136.4

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左侧/电机外置右侧
Motor external left side / Motor external right side

ML 电机外置左侧 Motor external left side

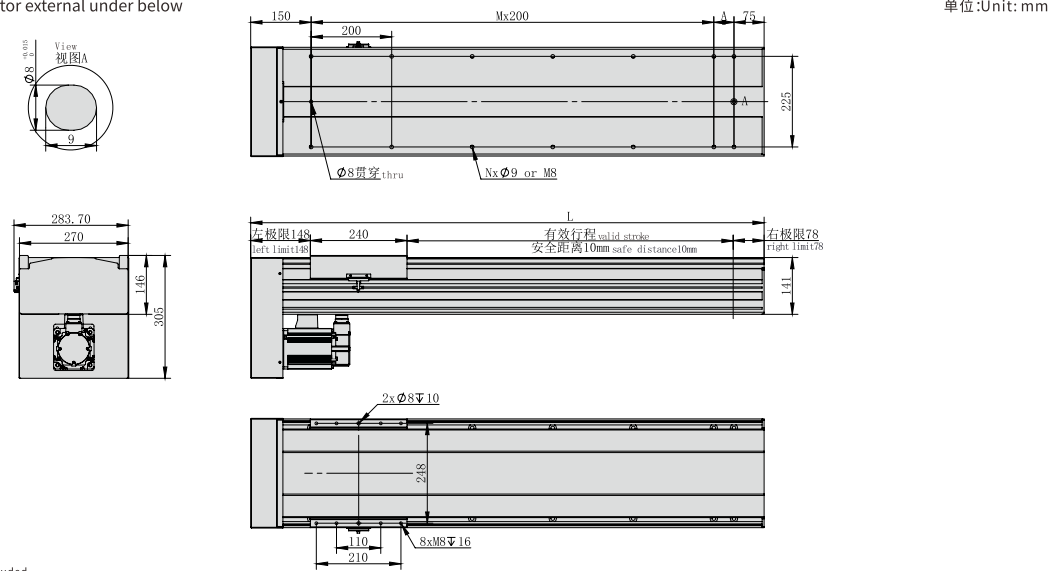


*不含电机重量。*Motor weight not included.

有效行程 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	2600	2700	2800	2900	3000
L	575	675	775	875	975	1075	1175	1275	1375	1475	1575	1675	1775	1875	1975	2075	2175	2275	2375	2475	2575	2675	2775	2875	2975	3075	3175	3275	3375	3475
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
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	32	32	34	34	36
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	14	14	16	16	18	18	20
KG	32	35.6	39.2	42.8	46.4	50	53.6	57.2	60.8	64.4	68	71.6	75.2	78.8	82.4	86	89.6	93.2	96.8	100.4	104	107.6	111.2	114.8	118.4	122	125.6	129.2	132.8	136.4

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MP 电机外置下方 Motor external under below

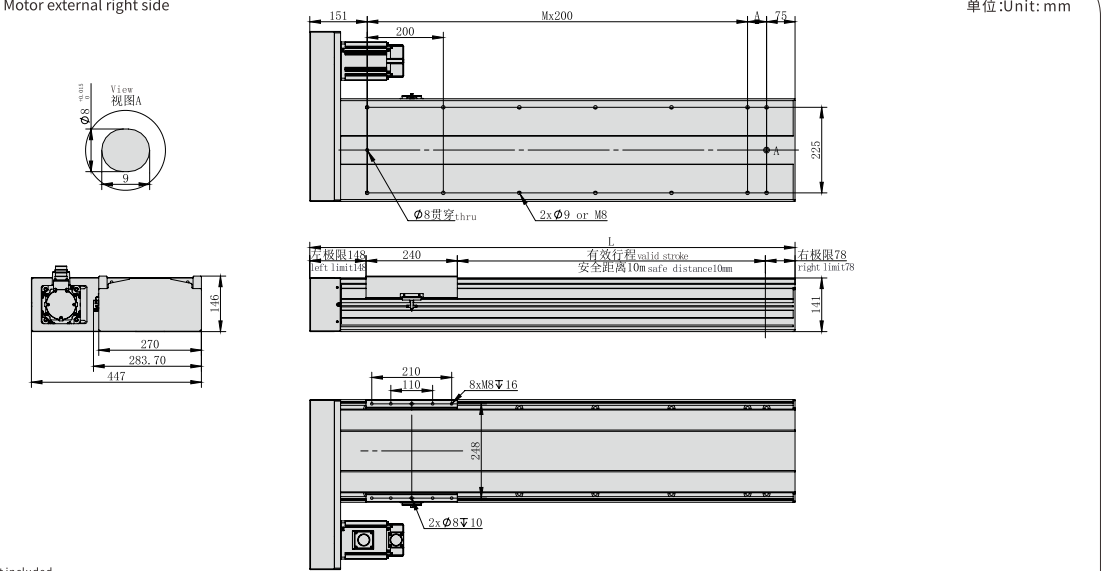


*不含电机重量。*Motor weight not included.

有效行程 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	2600	2700	2800	2900	3000
L	575	675	775	875	975	1075	1175	1275	1375	1475	1575	1675	1775	1875	1975	2075	2175	2275	2375	2475	2575	2675	2775	2875	2975	3075	3175	3275	3375	3475
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
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	32	32	34	34	36
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	14	14	16	16	18	18	20
KG	32	35.6	39.2	42.8	46.4	50	53.6	57.2	60.8	64.4	68	71.6	75.2	78.8	82.4	86	89.6	93.2	96.8	100.4	104	107.6	111.2	114.8	118.4	122	125.6	129.2	132.8	136.4

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

MR 电机外置右侧 Motor external right side



*不含电机重量。*Motor weight not included.

有效行程 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	2600	2700	2800	2900	3000
L	575	675	775	875	975	1075	1175	1275	1375	1475	1575	1675	1775	1875	1975	2075	2175	2275	2375	2475	2575	2675	2775	2875	2975	3075	3175	3275	3375	3475
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
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	32	32	34	34	36
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	14	14	16	16	18	18	20
KG	32	35.6	39.2	42.8	46.4	50	53.6	57.2	60.8	64.4	68	71.6	75.2	78.8	82.4	86	89.6	93.2	96.8	100.4	104	107.6	111.2	114.8	118.4	122	125.6	129.2	132.8	136.4

如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

HNR
HCR
HNB
HCB
HNT
XYZ
ONB
OCB
GCR
GCB
GCBS
GCRS
ESR
EMR
EHR
KSR
LNP
DDR

参考资料
Reference data