

LINEAR MODULES ASIA TYPE 日规模组

TPA 玖钧传动·智造兴邦



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TPA 网站
TPA website



微信公众号
Wechat public account



产品资料
Product Information



三维选型
Three-dimensional selection



抖音号
Douyin



产品型录编号: TPA-BD-ZE-004



— 玖钧传动·智造兴邦 —



— 玖 钧 传 动 · 智 造 兴 邦 —

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公司简介

COMPANY INTRO ▶

TPA玖钧传动创立于2016年，隶属玖钧集团，总部坐落在中国·昆山，现有二大研发中心和制造基地（昆山、深圳）；全国拥有十几处服务据点。产品畅销海内外主要有：中国（含台湾）、东南亚、欧美。总生产面积达50000平方米+，在职员工500人+，拥有各类先进设备近400台+。

注册商标TPA，寓意：TPA玖钧传动在摸索中“Transfer”不断改变，工作中“Passion”充满激情，发展中“Active”积极进取，永远以昂扬的斗志奋发向前。

TPA玖钧传动——专注于高速高精传动产品，是一家集专业研发、生产、销售、售后、服务为一体的国家级专精特新“小巨人”企业、国家高新技术企业、国家级博士后科研工作站、江苏省级专精特新、创新型中小企业、江苏省潜在独角兽企业。主要产品有：精密直线模组（日规模组、欧规模组、电动缸、钢基模组、内嵌式铝基模组、简易模组）、精密直线电机（单轴直线电机、直线电机平台、动定子）、磁悬浮智能传输系统（磁驱环形线、磁悬浮传输系统）。

TPA玖钧传动产品主要服务于：新能源、3C、半导体、新型显示、医疗、汽车、线路板、军工等八大产业领域。被广泛应用于取放、搬运、定位、分类、扫描、检测、点胶、焊锡等各类作业形式，模块化的产品满足客户多元化的应用场景。

TPA玖钧传动将秉承“永远为伙伴提供优质的服务，有责方远，利他共赢”的公司使命，优化产品，不断创新，始终坚持以高效的运作，优质的产品，精益求精的精神服务客户。

TPA玖钧传动以技术为核心、产品为基础、市场为导向、出色的服务团队、打造“TPA玖钧传动·智造兴邦”的行业新标杆。

TPA Jiujun Transmission was founded in 2016 and is affiliated with Jiujun Group. Its headquarters is located in Kunshan, China. Currently, it has two major R&D centers and manufacturing bases (in Kunshan and Shenzhen); it also has more than ten service outlets across the country. Its products are sold worldwide, mainly in China (including Taiwan), Southeast Asia, and Europe and America. The total production area is over 50,000 square meters, with more than 500 employees, and it possesses nearly 400 sets of advanced equipment.

Registered trademark TPA, its meaning: TPA Jiujun Transmission continuously "Transfers" and changes in the process of exploration; "Passion" is full of enthusiasm in the work; "Active" is proactive and enterprising in the development; always advancing forward with an energetic spirit.

TPA Jiujun Transmission - dedicated to high-speed and high-precision transmission products, is a national-level specialized, innovative "little giant" enterprise, a national high-tech enterprise, a national postdoctoral research station, an Jiangsu provincial specialized, innovative small and medium-sized enterprise, a potential unicorn enterprise in Jiangsu Province. Its main products include: precision linear modules (Japanese scale group, European scale group, electric cylinder, steel base module, embedded aluminum base module, simple module), precision linear motors (single-axis linear motor, linear motor platform, moving and stationary stators), magnetic levitation intelligent

transmission systems (magnetic drive ring line, magnetic levitation transmission system).

The TPA Jiujun transmission products mainly serve eight major industrial sectors: new energy, 3C, semiconductors, new display, healthcare, automobiles, circuit boards, and military industries. They are widely used in various operation forms such as loading and unloading, transportation, positioning, classification, scanning, inspection, dispensing, soldering, etc. The modular products can meet the diversified application scenarios of customers.

TPA Jiujun Transmission will adhere to the company mission of "always providing high-quality services to partners, taking responsibility far, and achieving mutual benefit through altruism", optimize its products, continuously innovate, and always provide services to customers with efficient operations, high-quality products, and the spirit of striving for excellence.

TPA Jiujun Transmission takes technology as its core, products as its foundation, market as its orientation, and an outstanding service team to create a new industry benchmark of "TPA Jiujun Transmission - Empowering the Nation through Manufacturing".



>> 公司价值观 Corporate values

核心的竞争和公司的价值观是企业品牌价值的重要体现。
The core competition and the company's values are the important embodiment of enterprise brand value.



出色的营销团队，专业的产品咨询，悉心的客户服务，完善的售后体系。
Excellent marketing team, professional product consultation, attentive customer service and perfect after-sales system.

正直, 尊重个人。任何讨论都以改善工作为前提。尊重差异, 保护多样式的个性。
Integrity and respect for individuals. Any discussion is premised on improving the work. Respect differences and protect multi-style personalities.

敬业, 客户至上。为客户提供无可挑剔的服务。公司在做任何事情或任何决定时都必须同时考虑到客户的感受和利益。
Dedicated, customer first. Provide impeccable service to customers. The company must consider the feelings and interests of customers at the same time when doing anything or making any decision.

专业, 充满激情。勤奋和敬业让我们出色, 投入让我们生动, 激情让我们卓越。
Professional and full of passion. Diligence and dedication make us outstanding, devotion makes us vivid, and passion makes us outstanding.

主动, 不断创新。每个人都是推动公司前进的力量。我们崇尚个人主动创新。任何对公司有益的事情大家都会不遗余力的支持, 主动配合。我们相信每个人的努力都会对公司产生深远的影响。
Initiative and continuous innovation. Everyone is a force to push the company forward. We advocate individual initiative innovation. Everyone will spare no effort to support and actively cooperate with anything that is beneficial to the company. We believe that everyone's efforts will have a profound impact on the company.

选择我们 Choose us



1 平台优势 Platform advantage

专业的传动组件制造厂商, 有二大研发中心(昆山、深圳) 四大制造基地(昆山、深圳、宁波、济南)。拥有50000余平方米生产制造车间, 自有加工设备近400台+, 销售的产品都具有全自主知识产权。
A professional manufacturer of transmission components, with two R&D centers (Kunshan and Shenzhen) Four major manufacturing bases (Kunshan, Shenzhen, Ningbo, Jinan). With a production and manufacturing workshop of over 50,000 square meters and nearly 400 sets of self-owned processing equipment, all the products sold have full independent intellectual property rights.

2 团队优势 Team advantage

公司组织架构齐全, 团队核心成员均在行业耕耘十余年。团队年轻化, 富有活力, 勇于担当。可为客户提供准确的选型方案及其他相关咨询服务。
The company has a complete organizational structure, and the core team members have all been working in the industry for more than ten years. The team is young, energetic and courageous in taking on responsibilities. We can provide customers with accurate selection plans and other related consulting services.

3 技术优势 Technological advantage

公司拥有百余位行业内资深技术研发人员。可为客户提供非标定制化需求, 多样灵活的方案。
The company has over a hundred senior technical R&D personnel in the industry. We can provide customers with non-standard customized demands and diverse flexible solutions.

4 产品优势 Product advantage

核心配件自产, 自给率高。立足于自动化设备传动领域。产品类别齐全, 可满足客户在传动形式上多种需求。
The core components are self-produced, with a high self-sufficiency rate. Based in the field of transmission for automated equipment. Our product range is comprehensive and can meet various demands of customers in terms of transmission forms.

5 品质优势 Quality advantage

拥有先进的制造设备、专业的检测设备。完整的生产工艺流程、专业的团队。多道品质检验流程, 确保产品一致性。
It is equipped with advanced manufacturing facilities and professional testing equipment. Complete production process flow and professional team. Multiple quality inspection processes ensure product consistency.

6 服务优势 Service advantage

我司拥有全球化销售网络, 办事处及专业的售后团队, 更快速响应客户售前、售中、售后服务需求。
Our company has a global sales network, offices and a professional after-sales team, which enables us to respond more quickly to customers' pre-sale, in-sale and after-sale service demands.

7 社会责任 Social responsibility

为员工提供舒适、安全、健康的工作环境。精密传动配件自产自销, 打破进口依赖, 摆脱“卡脖子”障碍。专注高速高精传动产品, 为国家智能制造发展添砖加瓦。
Provide employees with a comfortable, safe and healthy working environment. Precision transmission components are self-produced and self-sold, breaking the reliance on imports and getting rid of the "bottleneck" obstacle. Focusing on high-speed and high-precision transmission products, we contribute to the development of national intelligent manufacturing.

8 价格优势 Price advantage

规模大、产能高、编制精、人员结构稳定。可帮助客户降低生产成本, 提高产品利润及市场竞争力。
Large scale, high production capacity, precise staffing and stable personnel structure. It can help customers reduce production costs, increase product profits and market competitiveness.

TPA公司环境
Company Environment



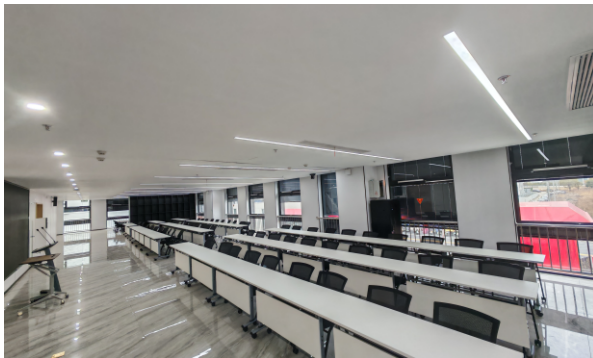
华东制造基地 East China Manufacturing Base



华南制造基地 South China Manufacturing Base



加工车间 Processing workshop



多功能培训厅 Multifunctional Training Hall



无尘车间 Dust-free workshop



组装车间 Assembly shop



CNC加工中心 CNC machining center

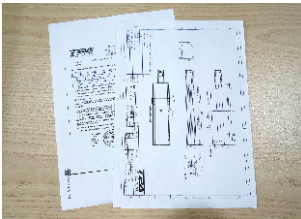


办公环境 Office environment

TPA模组生产流程
Production process



1. 按照客户需求设计定制图纸。
Design customized drawings according to customer requirements.



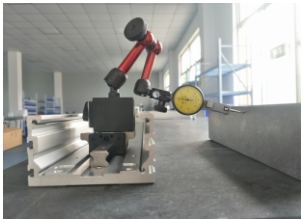
2. 订单确认, 客户回传合同及图纸。
Order confirmation, Customers return contracts and drawings.



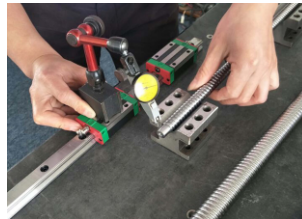
3. 按照图纸CNC生产加工。
CNC production and processing according to drawings



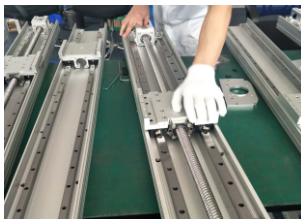
4. 检查底座平面度。
Check the flatness of the base.



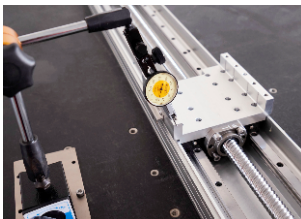
5. 检查底座平行度。
Check the parallelism of the base.



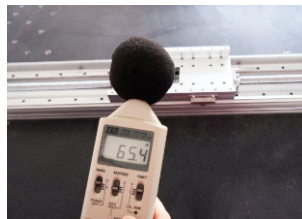
6. 检查螺杆同心度垂直度。
Check the verticality of screw concentricity.



7. 检查有无卡顿情况。
Check for any stuck condition.



8. 通电测试重复定位精度。
Test the accuracy of repeated positioning by electrifying.



9. 模组运行噪音检测。
Running noise detection of module.

TPA
玖钧传动
Motion Control

线性模组出厂检验报告
LINEAR SLIDING TABLE FACTORY INSPECTION REPORT

产品名称: _____ 生产单号: _____
产品类型: _____ 订单号: _____

检验项目		检验结果	
1. 外观检查			
1.1 外观无划伤、无油污、无异物	是/否	是/否	是/否
1.2 丝杆表面无油污、无异物	是/否	是/否	是/否
1.3 丝杆表面无划痕、无油污、无异物	是/否	是/否	是/否
1.4 丝杆表面无油污、无异物	是/否	是/否	是/否
1.5 丝杆表面无油污、无异物	是/否	是/否	是/否
1.6 丝杆表面无油污、无异物	是/否	是/否	是/否
1.7 丝杆表面无油污、无异物	是/否	是/否	是/否
1.8 丝杆表面无油污、无异物	是/否	是/否	是/否
1.9 丝杆表面无油污、无异物	是/否	是/否	是/否
1.10 丝杆表面无油污、无异物	是/否	是/否	是/否
2. 尺寸检查			
2.1 丝杆直径	φ10	φ10	φ10
2.2 丝杆长度	1000	1000	1000
2.3 丝杆螺距	4	4	4
2.4 丝杆螺距	4	4	4
2.5 丝杆螺距	4	4	4
2.6 丝杆螺距	4	4	4
2.7 丝杆螺距	4	4	4
2.8 丝杆螺距	4	4	4
2.9 丝杆螺距	4	4	4
2.10 丝杆螺距	4	4	4
3. 性能检查			
3.1 丝杆表面无油污、无异物	是/否	是/否	是/否
3.2 丝杆表面无油污、无异物	是/否	是/否	是/否
3.3 丝杆表面无油污、无异物	是/否	是/否	是/否
3.4 丝杆表面无油污、无异物	是/否	是/否	是/否
3.5 丝杆表面无油污、无异物	是/否	是/否	是/否
3.6 丝杆表面无油污、无异物	是/否	是/否	是/否
3.7 丝杆表面无油污、无异物	是/否	是/否	是/否
3.8 丝杆表面无油污、无异物	是/否	是/否	是/否
3.9 丝杆表面无油污、无异物	是/否	是/否	是/否
3.10 丝杆表面无油污、无异物	是/否	是/否	是/否

玖钧传动·智造兴邦
www.tparobot.cn

滑台出厂均附有相应检验报告, 确保产品符合使用要求, 方准予出厂。
The sliding table is shipped with the corresponding inspection report to ensure that the products meet the use requirements, and the sliding table is allowed to leave the factory.

滑台模组规格索引

Spec index of electric actuator

HNB半封闭同步带模组 HNB Series Semi-Sealing Belt Driven Linear Actuator

使用环境 Environment	传动方式 Drive method	规格 Specifications	马达容量 Motor output	本体宽度 Body Width(mm)	重复定位精度 Repeated positioning accuracy	最大可搬重量 Maximum Payload(kg)	标准行程 Stroke pitch(mm)	皮带规格 Belt specifications		理论最高速度*1 Theoretical maximum speed (mm/s)	行程 Stroke	标准行程与建议最高使用速度 *2 Stroke(mm) & Maximum speed (mm/s)												
								皮带宽度 Belt width(mm)	导程 Lead(mm)			100-1800	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950
一般环境 General environment	滚珠螺杆 Ball screw	TPA-HNB-105D	200W	105	±0.04	9	150~3050 (间距100)	20	90	4500		1600												
		TPA-HNB-120D	200W	120	±0.04	14	150~3050 (间距100)	20	110	5500		1600												
		TPA-HNB-140D	400W	140	±0.04	18	150~3050 (间距100)	25	120	6000		2000												
		TPA-HNB-175D	750W	175	±0.04	30	150~3050 (间距100)	35	140	7000		2000												
		TPA-HNB-202D	750W	202	±0.04	40	150~3050 (间距100)	50	140	7000		2000												
		TPA-HNB-220D	1000W	220	±0.04	50	150~3050 (间距100)	60	176	8000		2000												

HCB全封闭同步带模组 HCB Series Full-Sealing Belt Driven Linear Actuator

使用环境 Environment	传动方式 Drive method	规格 Specifications	马达容量 Motor output	本体宽度 Body Width(mm)	重复定位精度 Repeated positioning accuracy	最大可搬重量 Maximum Payload(kg)	标准行程 Stroke pitch(mm)	皮带规格 Belt specifications		理论最高速度 Theoretical maximum speed (mm/s)	行程 Stroke	标准行程与建议最高使用速度 *2 Stroke(mm) & Maximum speed (mm/s)												
								皮带宽度 Belt width(mm)	导程 Lead(mm)			100-1800	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950
一般环境 General environment	滚珠螺杆 Ball Screw	TPA-HCB-105D	200W	105	±0.04	9	150~3050 (间距100)	20	90	4500		1600												
		TPA-HCB-120D	200W	120	±0.04	14	150~3050 (间距100)	20	110	5500		1600												
		TPA-HCB-140D	400W	140	±0.04	18	150~3050 (间距100)	25	120	6000		2000												
		TPA-HCB-175D	750W	175	±0.04	30	150~3050 (间距100)	35	140	7000		2000												
		TPA-HCB-202D	750W	202	±0.04	40	150~3050 (间距100)	50	140	7000		2000												
		TPA-HCB-220D	1000W	220	±0.04	50	150~3050 (间距100)	60	176	8000		2000												

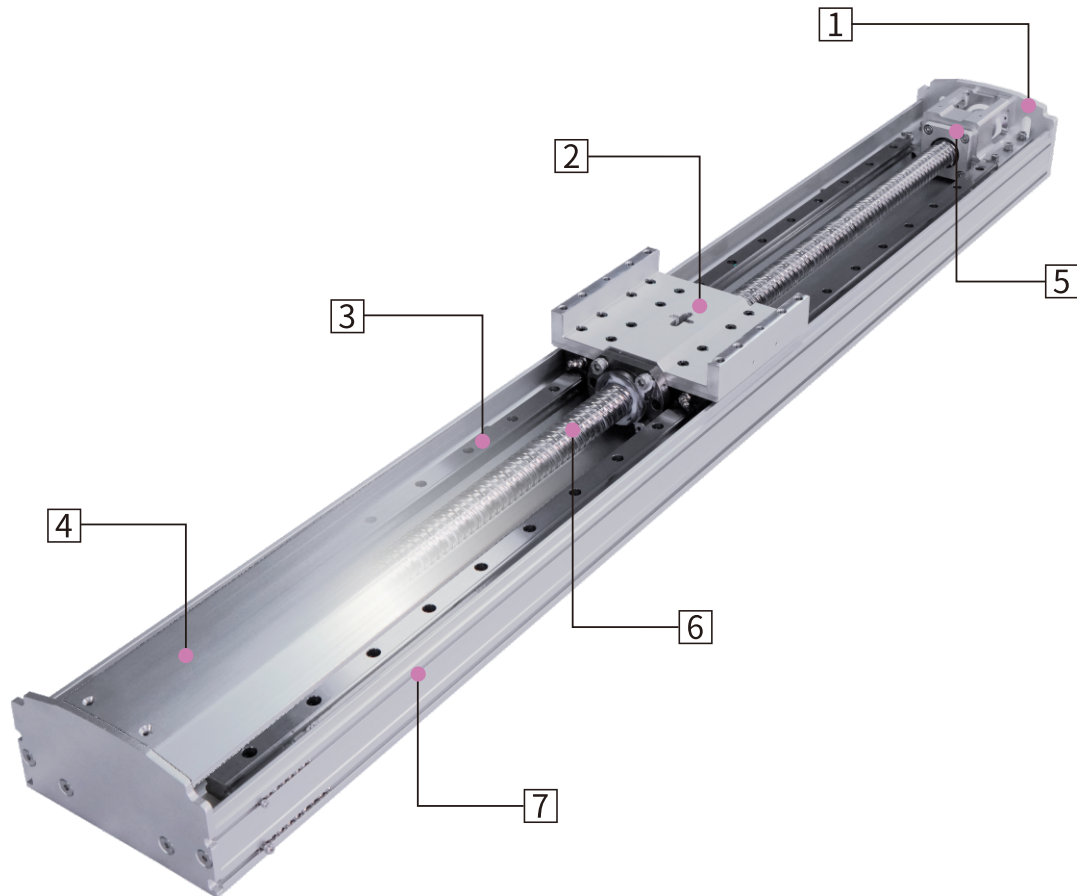
*1:最高速度是以伺服马达最高转速3000RPM为基准。
The highest speed is based on the maximum servo motor's rpm(3000).

HNR
HCR
HNB
HCB
HNT
XYZ
参考资料 Reference data



螺杆模组内部结构图说明

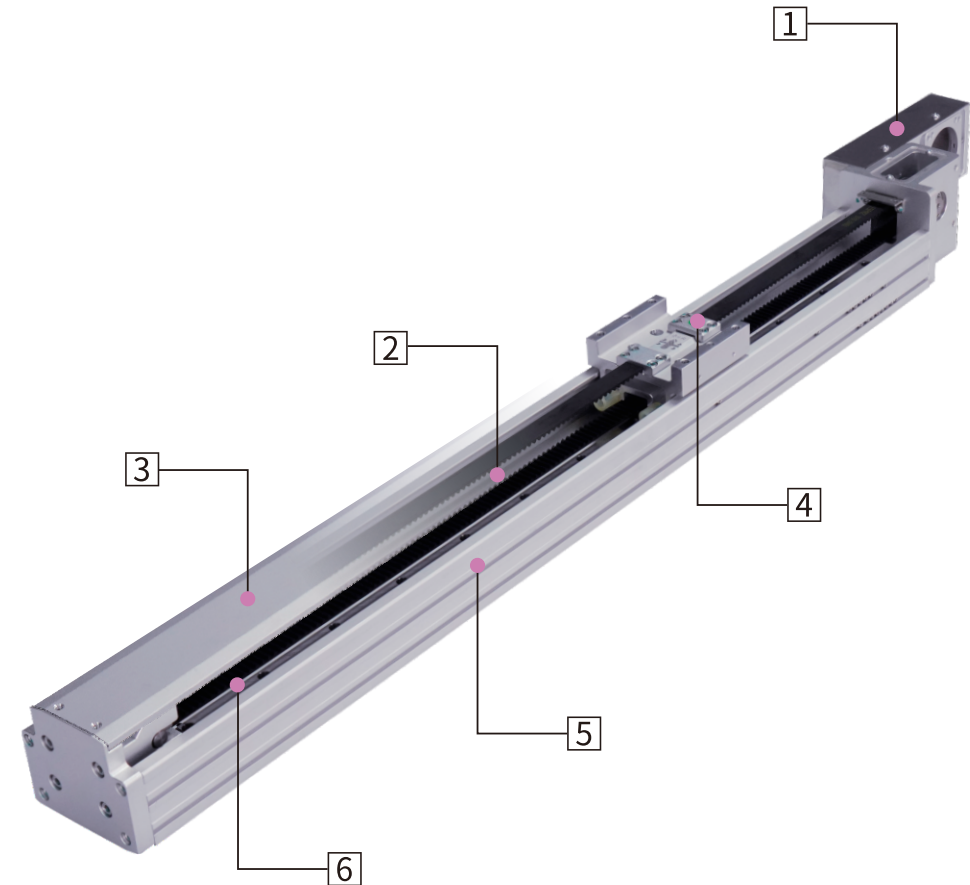
Description of Internal Structure Diagram of Screw Driven Linear Actuator



- 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
参考资料 Reference data



此图仅供参考, 出货规格详见尺寸图画
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

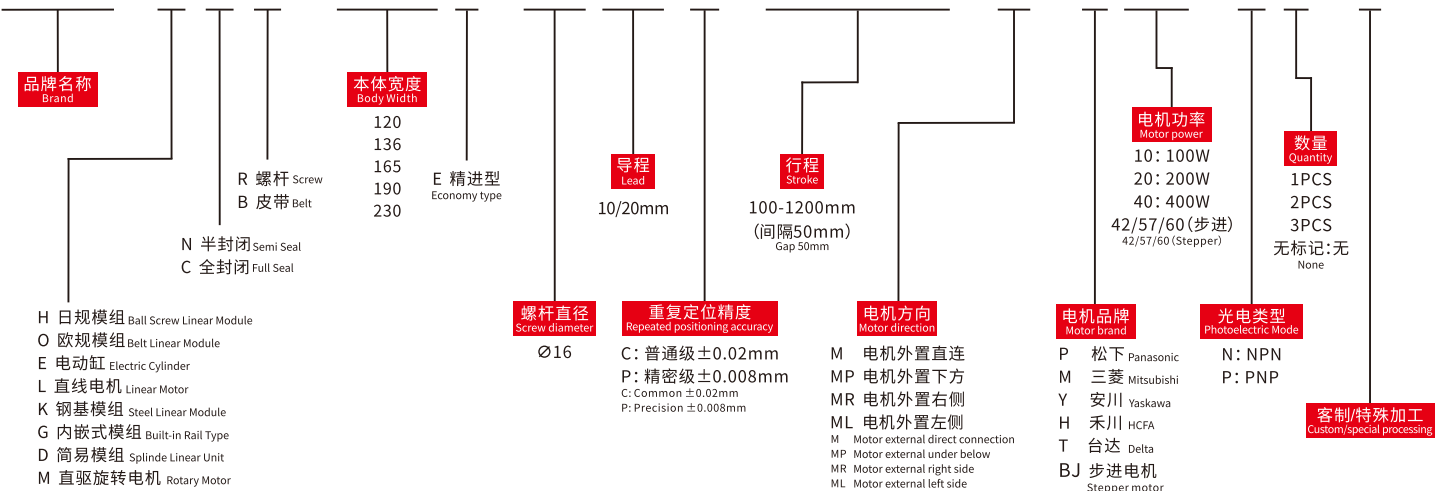
马达容量
Motor output 200W

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-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)	±0.01	
	导程 (mm) Lead (mm)	10	20
	最高速度 (mm/s) Maximum speed (mm/s)	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)	30
		垂直使用 (kg) Vertical (kg)	12
	定格推力 (N) Rated thrust (N)	307	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℃, 85%RH (无凝结) No condensation	

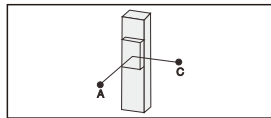
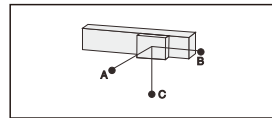
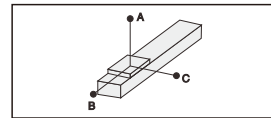
注1: 使用非上述功率电机时请依据实际参数推算。

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

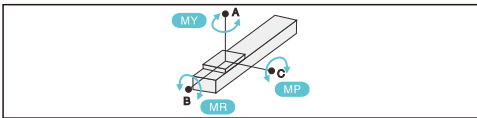


(单位Unit:mm)			
水平安装 Horizontal installation	A	B	C
导程 10 Lead	15kg	875	138
	25kg	485	73
	30kg	386	56
导程 20 Lead	5kg	1160	384
	10kg	561	180
	18kg	288	89

(单位Unit:mm)			
侧面安装 Side mounting	A	B	C
导程 10 Lead	10kg	250	221
	20kg	110	97
	30kg	64	56
导程 20 Lead	5kg	317	316
	12kg	147	144
	18kg	89	88

(单位Unit:mm)			
垂直安装 Vertical installation	A	B	C
导程 10 Lead	4kg	606	606
	8kg	303	303
	-	-	-
导程 20 Lead	2kg	961	961
	3kg	639	639
	-	-	-

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

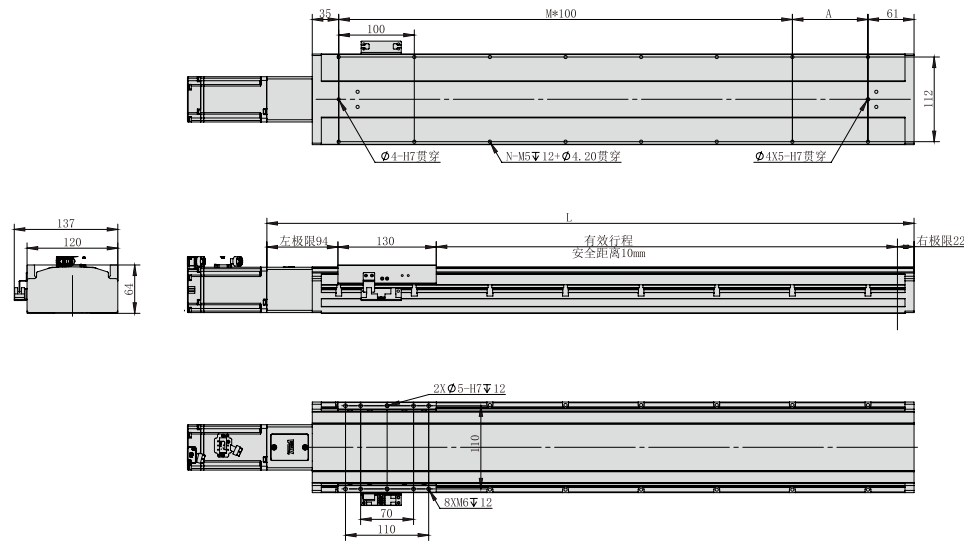


电机外置直连/电机外置下方

Motor external direct connection/Motor external 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	356	406	456	506	556	606	656	706	756	806	856	906	956	1006	1056	1106	1156	1206	1256	1306	1356	1406	1456
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

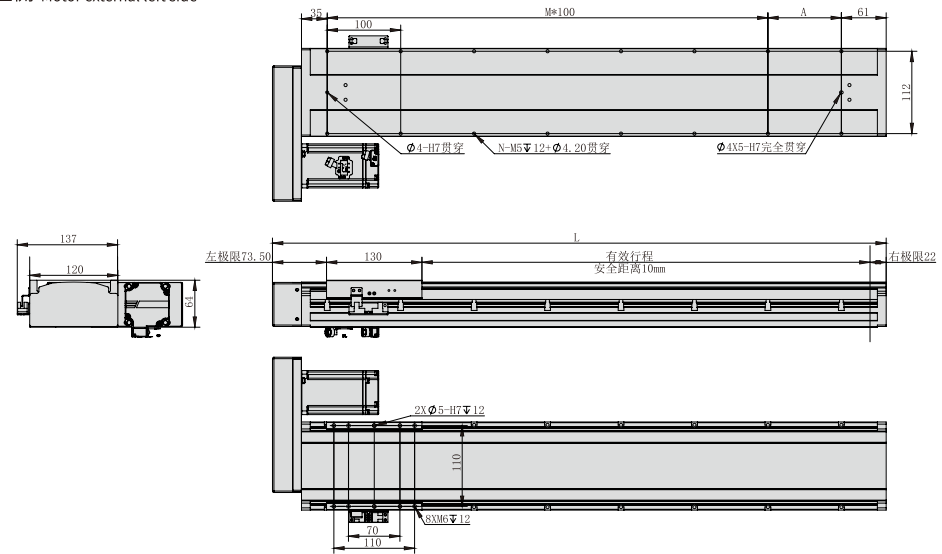
如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

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



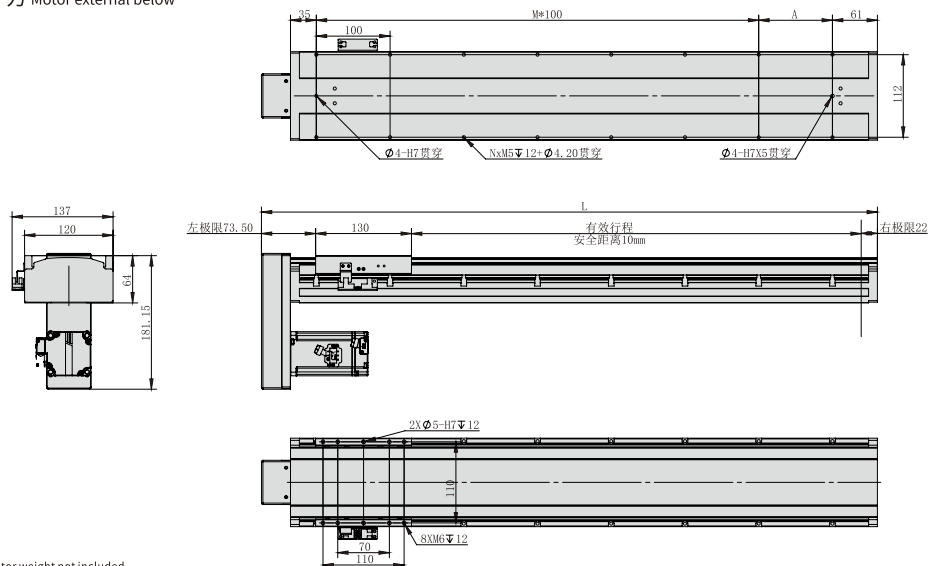
*不含电机重量。*Motor weight not included.

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	335.5	385.5	435.5	485.5	535.5	585.5	635.5	685.5	735.5	785.5	835.5	885.5	935.5	985.5	1035.5	1085.5	1135.5	1185.5	1235.5	1285.5	1335.5	1385.5	1435.5
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



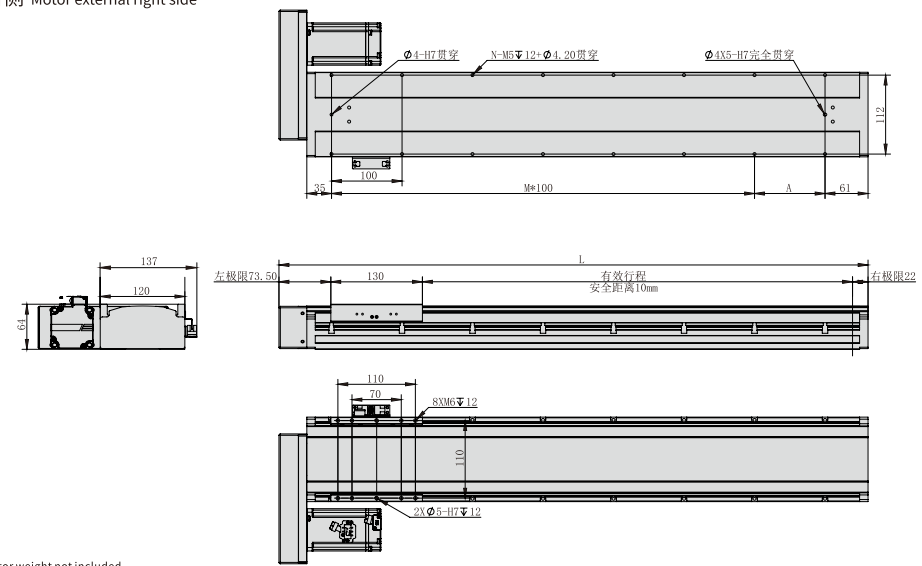
*不含电机重量。*Motor weight not included.

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	335.5	385.5	435.5	485.5	535.5	585.5	635.5	685.5	735.5	785.5	835.5	885.5	935.5	985.5	1035.5	1085.5	1135.5	1185.5	1235.5	1285.5	1335.5	1385.5	1435.5
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	335.5	385.5	435.5	485.5	535.5	585.5	635.5	685.5	735.5	785.5	835.5	885.5	935.5	985.5	1035.5	1085.5	1135.5	1185.5	1235.5	1285.5	1335.5	1385.5	1435.5
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.



重复精度
Repeat Accuracy
 ± 0.01
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
1400mm

最高速度
Max speed
1000mm/s

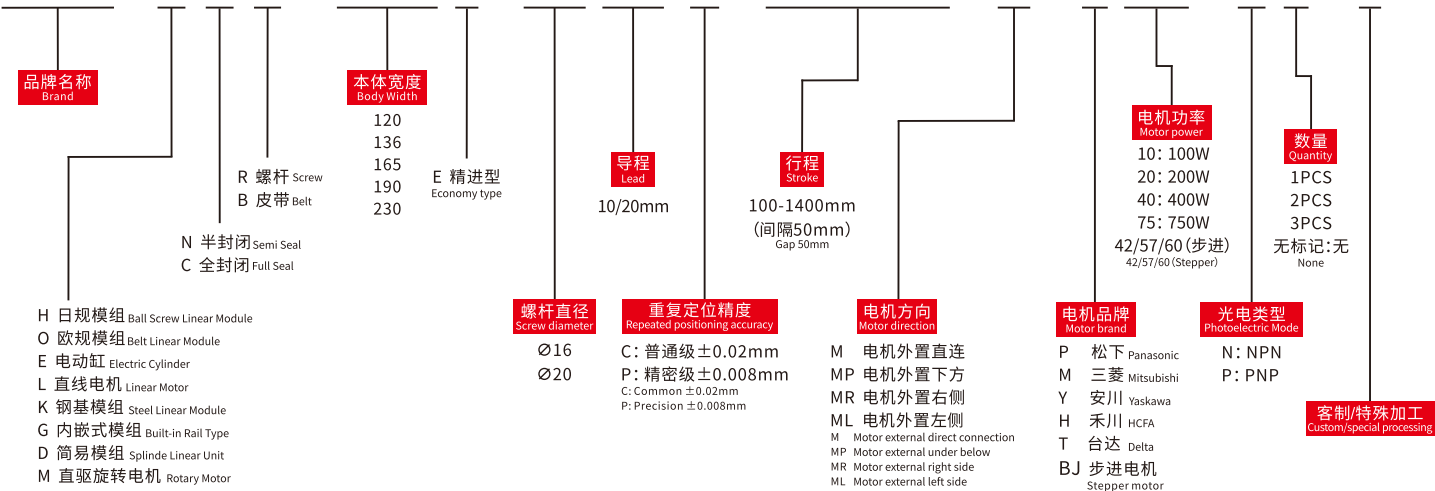
马达容量
Motor output
400W

滚珠螺杆
Ball screw
 $\varnothing 20$ mm

直线滑轨
Linear guide
15X12.5-2支

型号表达方式 Ordering method

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



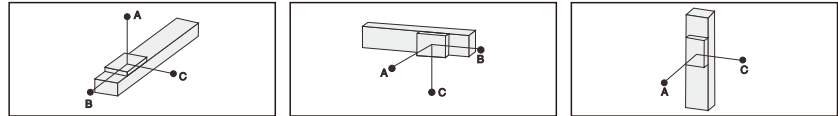
产品性能参数如下 Product performance parameters are as follows

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)	± 0.01	
	导程 (mm) Lead (mm)	10	20
	最高速度 (mm/s) Maximum speed (mm/s)	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)	88
		垂直使用 (kg) Vertical (kg)	22
	定格推力 (N) Rated thrust (N)	625	312
	标准行程 (mm) Stroke pitch (mm)	100~1400mm/50 间隔 50 mm Pitch	
部 品 Parts	滚珠螺杆外径 (mm) Ball screw $\varnothing$ (mm)	$\varnothing 20$	
	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.

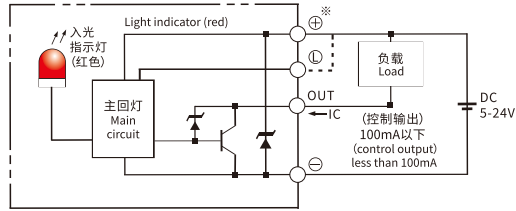
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be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



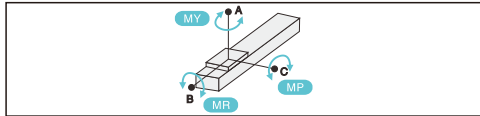
(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)			
水平安装 Horizontal installation				侧面安装 Side mounting				垂直安装 Vertical installation			
导程 10 Lead	A	B	C	导程 10 Lead	A	B	C	导程 10 Lead	A	B	C
30KG	2700	470	400	30KG	370	300	2350	4KG	2980	2980	
50KG	1500	270	200	50KG	200	250	1450	7KG	1700	1700	
70KG	1000	170	100	70KG	150	150	1000	10KG	630	630	
10KG	2300	1200	1050	10KG	850	1000	2550	4KG	1150	1150	
20KG	1400	540	400	20KG	500	600	1600	7KG	800	800	
30KG	1000	350	200	30KG	250	350	1000	-	-	-	

感应器连接图<原点及端点> Sensor layout



HNR-E
HNB-E
HFR
HNR
HCR
HNB
HC
HNT
XYZ
参考资料 Reference data

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)	400	220	HG-KN43J-S100	MR-JE-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMF042L1U2M	MBDLN25SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECM-B3M-C20604RS1	ASD-B3-0421-L



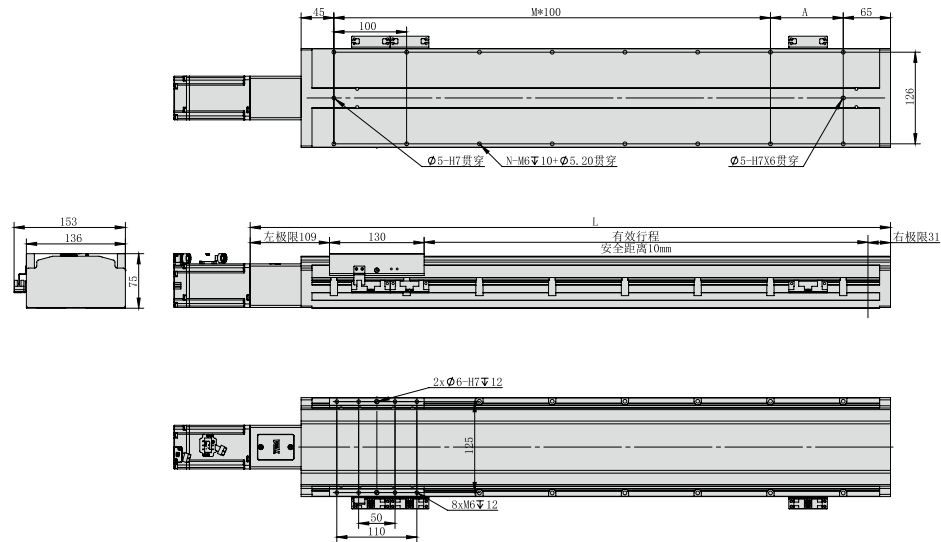
电机外置直连/电机外置下方

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.

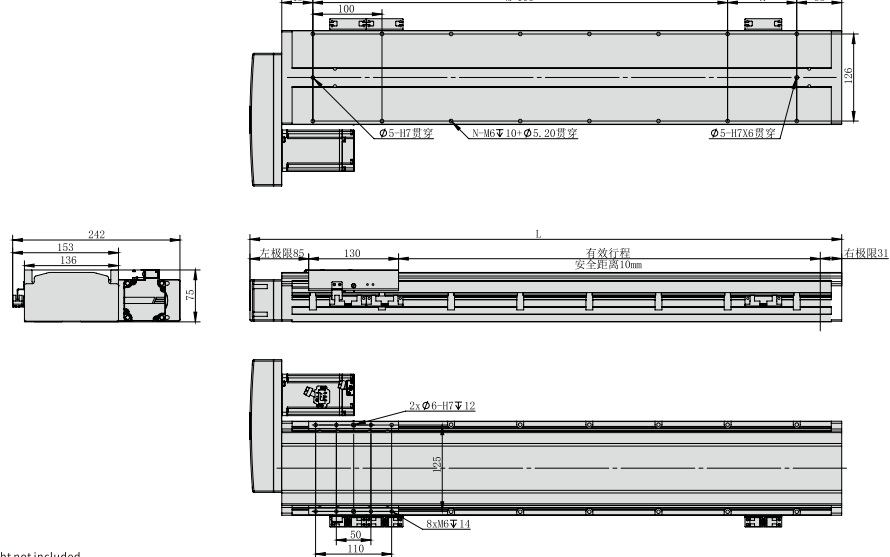
电机外置左侧/电机外置右侧

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.

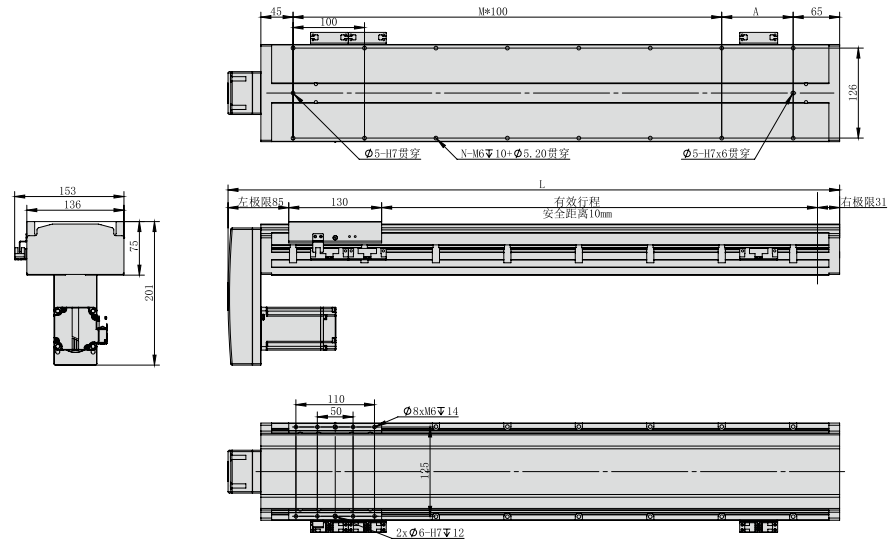
有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
L	356	406	456	506	556	606	656	706	756	806	856	906	956	1006	1056	1106	1156	1206	1256	1306	1356	1406	1456	1506	1556	1606	1656
A	100	50	100	50	100	50	100	50	100	50	100	50	100	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.

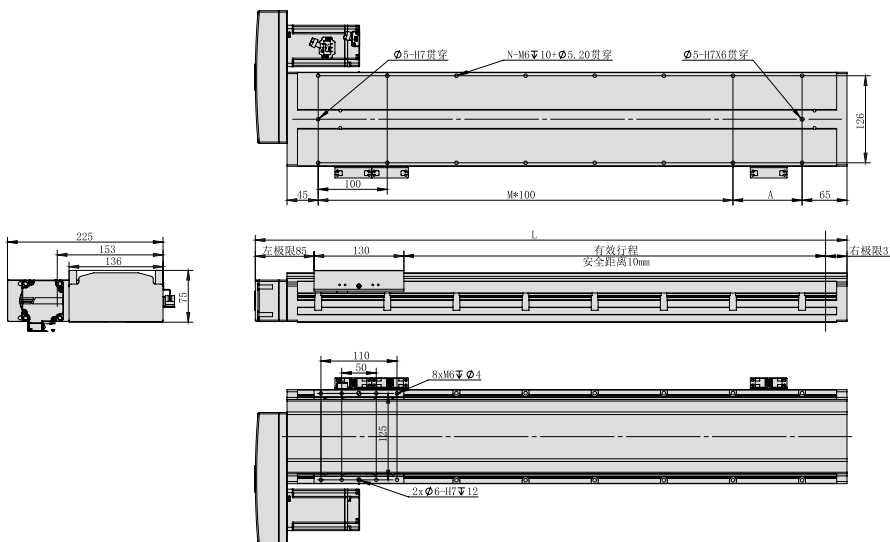
有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
L	356	406	456	506	556	606	656	706	756	806	856	906	956	1006	1056	1106	1156	1206	1256	1306	1356	1406	1456	1506	1556	1606	1656
A	100	50	100	50	100	50	100	50	100	50	100	50	100	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.



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

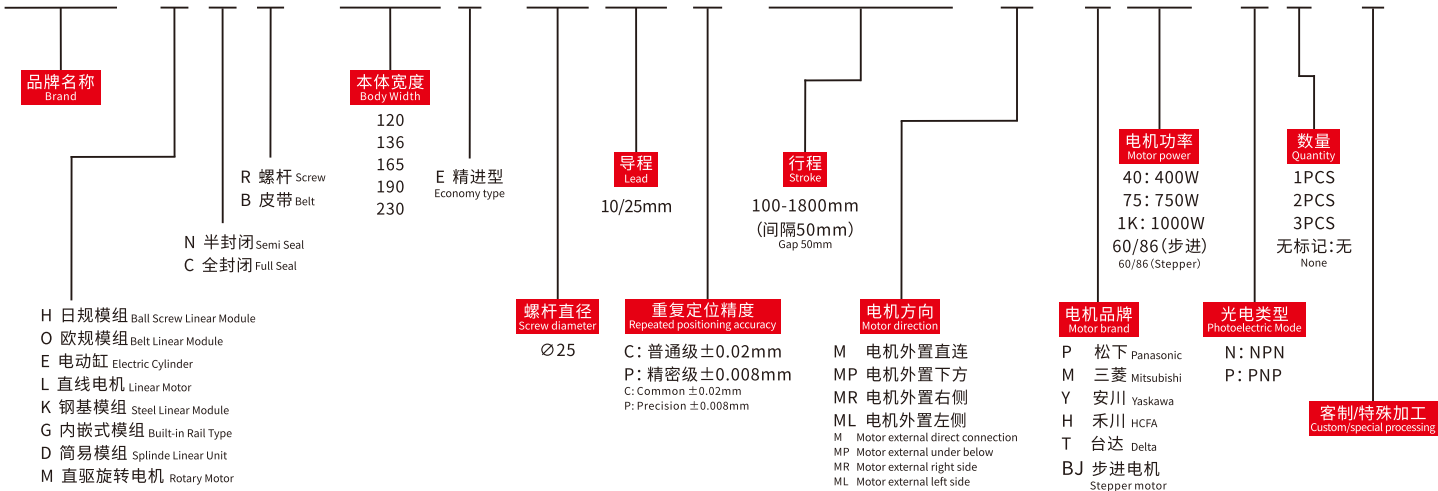
马达容量
Motor output 750W

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-P75-N3-F



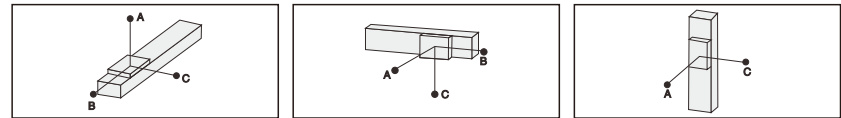
产品性能参数如下 Product performance parameters are as follows

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)	±0.01	
	导程 (mm) Lead (mm)	10	25
	最高速度 (mm/s) Maximum speed (mm/s)	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)	110
		垂直使用 (kg) Vertical (kg)	55
	定格推力 (N) Rated thrust (N)	1153	577
	标准行程 (mm) Stroke pitch (mm)	100~1800mm/50 间隔 50 mm Pitch	
部 品 Parts	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℃, 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.

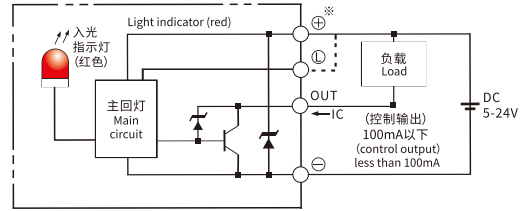
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be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



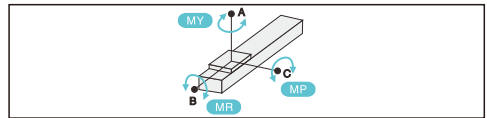
(单位Unit:mm)					(单位Unit:mm)					(单位Unit:mm)				
水平安装 Horizontal installation					侧面安装 Side mounting					垂直安装 Vertical installation				
导程 10 Lead	A	B	C		导程 10 Lead	A	B	C		导程 10 Lead	A	B	C	
65kg	1911	338	373		60kg	408	368	2092		15kg	1618	1618		
85kg	1445	248	276		80kg	296	266	1554		25kg	970	970		
120kg	1000	164	182		120kg	182	164	1002		40kg	607	607		
35kg	1666	547	538		30kg	633	644	1961		10kg	1922	1922		
55kg	1030	331	328		50kg	365	369	1143		14kg	1377	1377		
83kg	654	206	204		83kg	204	206	656		25kg	769	769		

感应器连接图<原点及端点> Sensor layout



HNR-E
HNB-E
HFR
HNR
HCR
HNB
HC
HNT
XYZ
参考资料 Reference data

静态容许负载惯量 Static loading moment



(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)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L



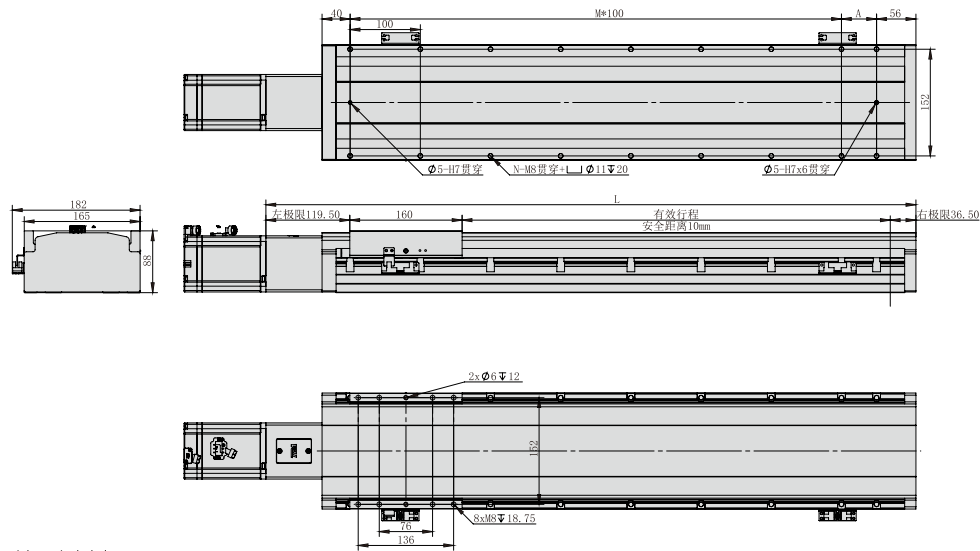
电机外置直连/电机外置下方

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.

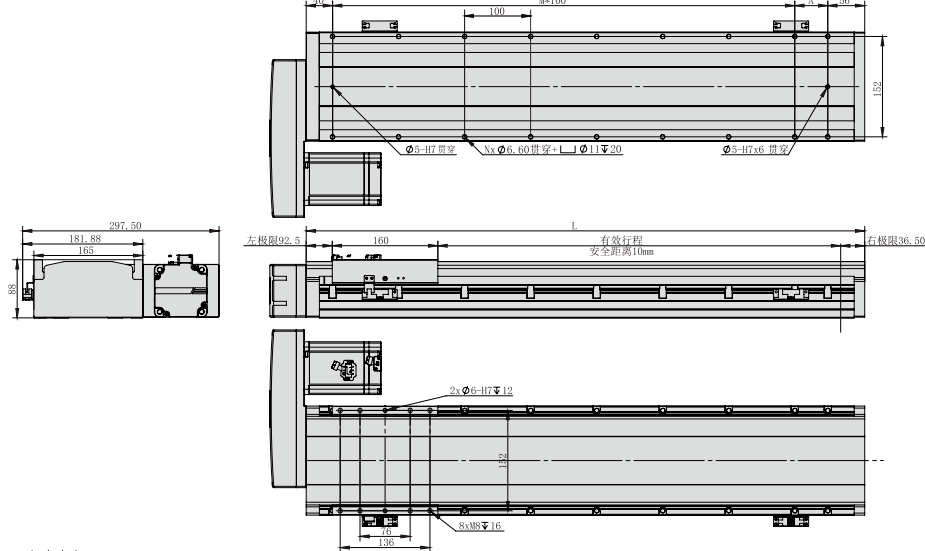
电机外置左侧/电机外置右侧

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.

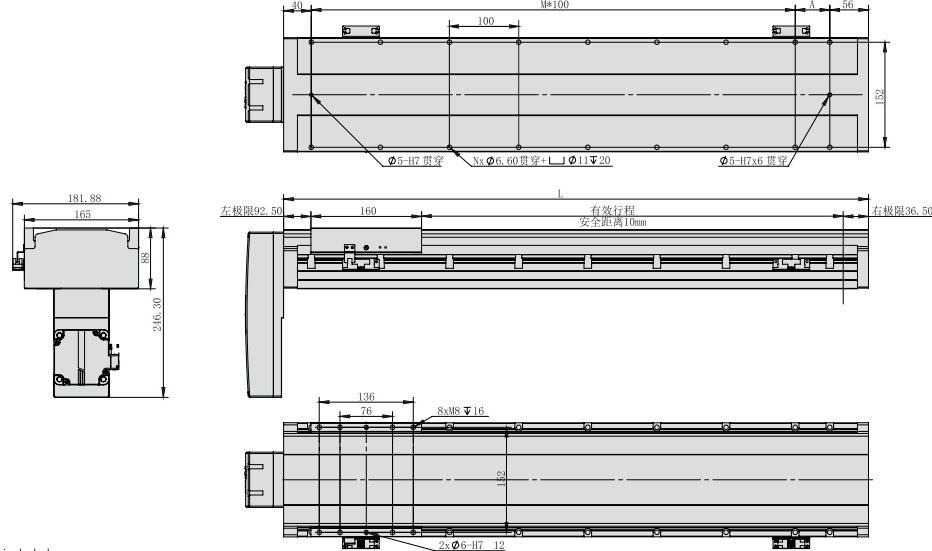
有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	399	449	499	549	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999	2049	2099
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.

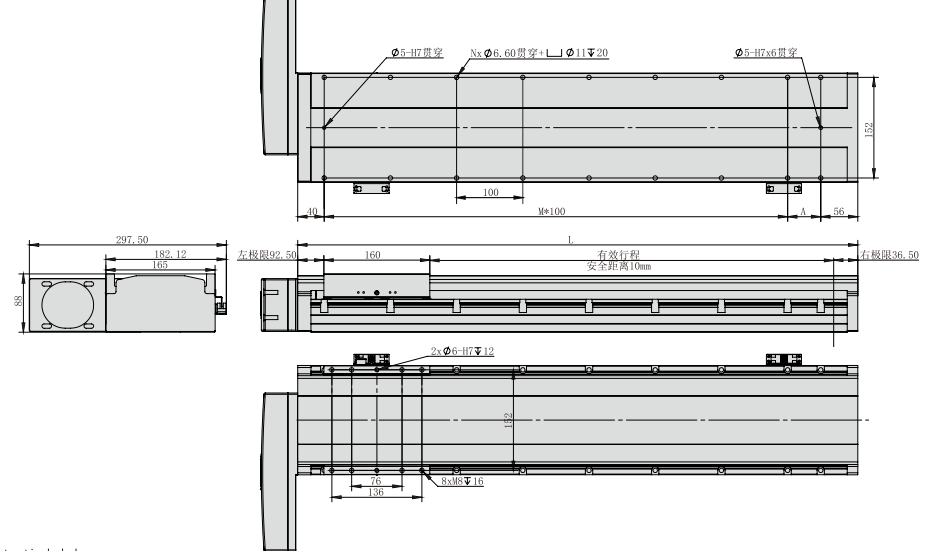
有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	399	449	499	549	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999	2049	2099
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	399	449	499	549	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999	2049	2099
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.



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 2400mm

最高速度
Max speed 1600mm/s

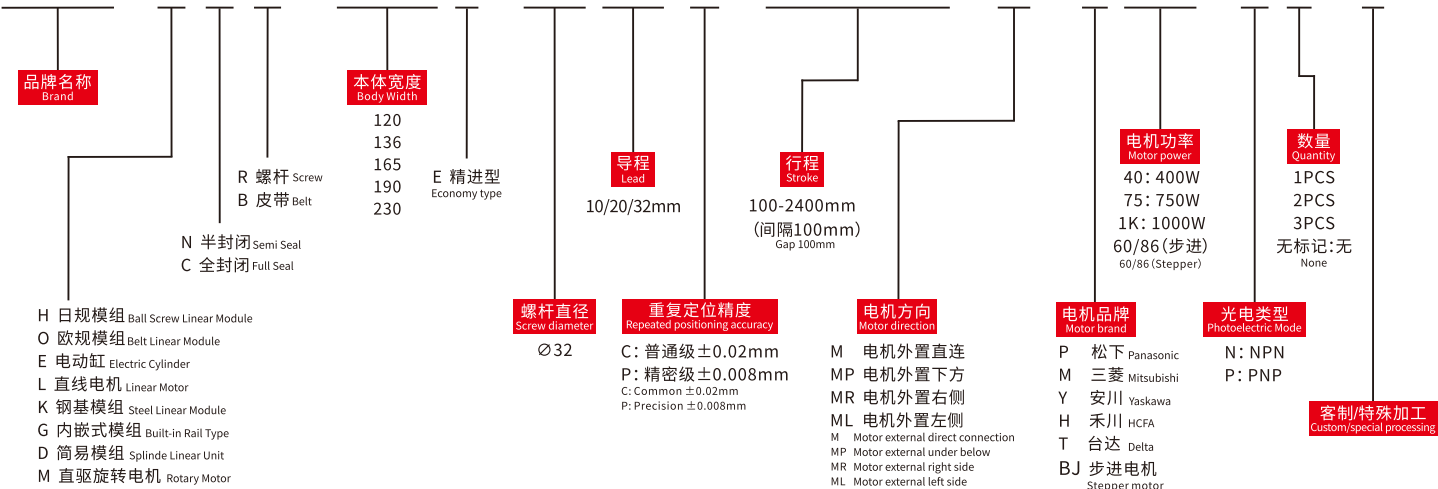
马达容量
Motor output 1000W

滚珠螺杆
Ball screw Ø32mm

直线滑轨
Linear guide 25X22-2支

型号表达方式 Ordering method

TPA-HNR-190E-3210C-L2400-M-P1K-N3-F



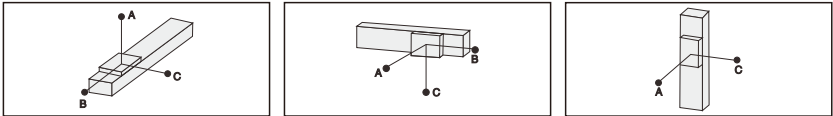
产品性能参数如下 Product performance parameters are as follows

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)	±0.01		
	导程 (mm) Lead (mm)	10	20	32
	最高速度 (mm/s) Maximum speed (mm/s)	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)	170	105
		垂直使用 (kg) Vertical (kg)	80	40
	定格推力 (N) Rated thrust (N)	1153	577	461
	标准行程 (mm) Stroke pitch (mm)	100~2400mm/100间隔 100 mm Pitch		
部 品 Parts	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℃, 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

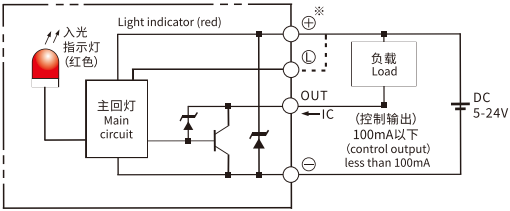


(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)			
水平安装 Horizontal installation				侧面安装 Side mounting				垂直安装 Vertical installation			
导程 10 Lead	A	B	C	导程 10 Lead	A	B	C	导程 10 Lead	A	B	C
100kg	3220	563	474	110kg	427	503	2900	25kg	2505	2505	
125kg	3554	434	367	130kg	351	414	2444	35kg	1795	1795	
150kg	2113	349	295	150kg	295	349	2113	45kg	1396	1396	
导程 20 Lead	A	B	C	导程 20 Lead	A	B	C	导程 20 Lead	A	B	C
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	A	B	C	导程 32 Lead	A	B	C	导程 32 Lead	A	B	C
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	-	-	-	

搭配伺服马达一览表 Suitable motor brand

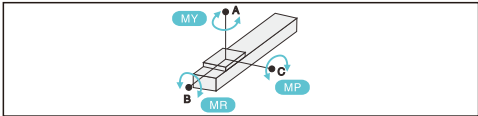
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

感应器连接图<原点及端点> Sensor layout



HNR-E
HNB-E
HFR
HNR
HCR
HNB
HCB
HNT
XYZ
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.



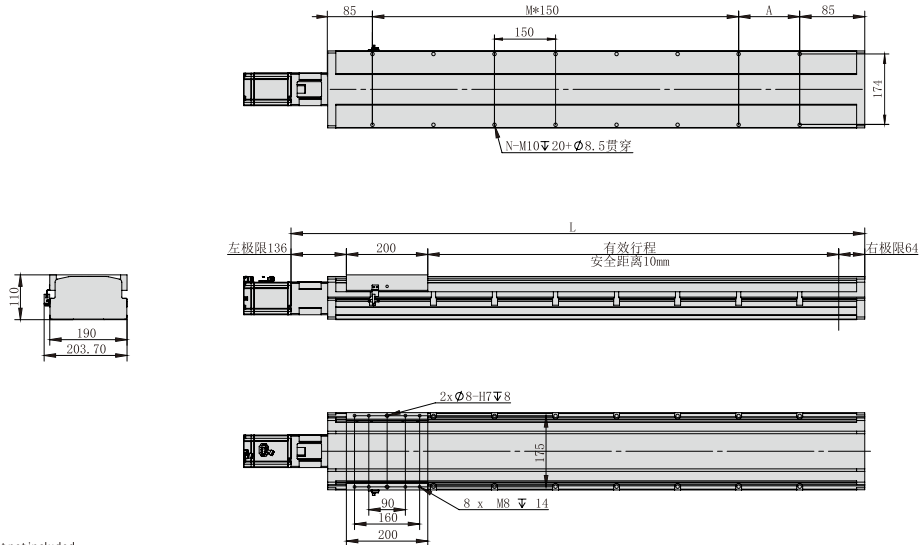
电机外置直连/电机外置下方

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	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	541	641	741	841	941	1041	1141	1241	1341	1441	1541	1641	1741	1841	1941	2041	2141	2241	2341	2441	2541	2641	2741	2841
A	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
N	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
M	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
KG	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60

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.

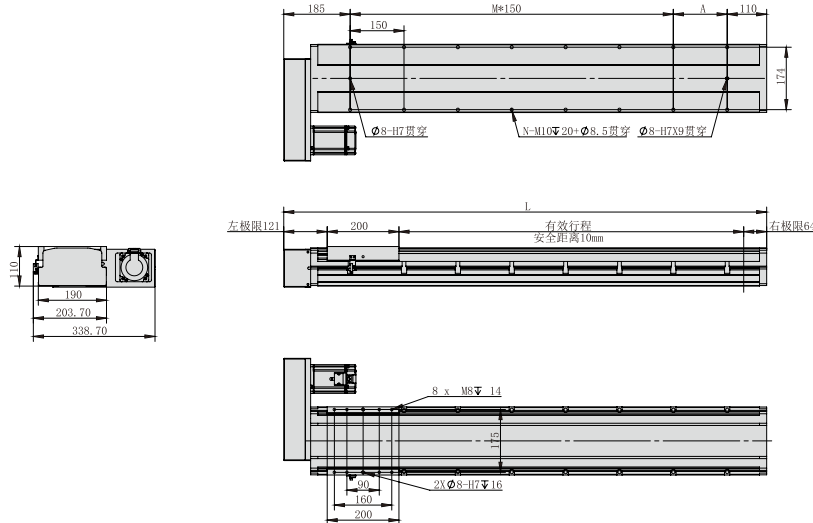
电机外置左侧/电机外置右侧

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.

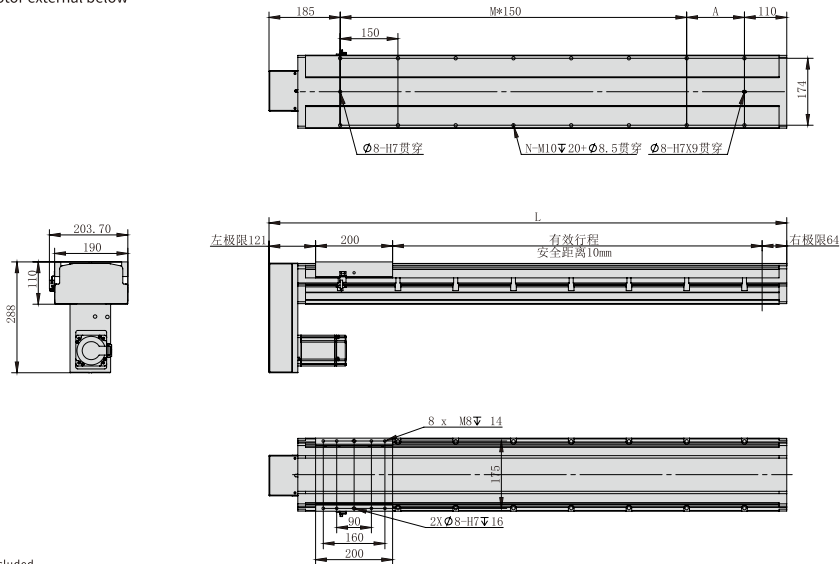
有效行程 Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	495	595	695	795	895	995	1095	1195	1295	1395	1495	1595	1695	1795	1895	1995	2095	2195	2295	2395	2495	2595	2695	2795
A	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
N	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
M	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
KG	14.5	16.5	18.5	20.5	22.5	24.5	26.5	28.5	30.5	32.5	34.5	36.5	38.5	40.5	42.5	44.5	46.5	48.5	50.5	52.5	54.5	56.5	58.5	60.5

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.

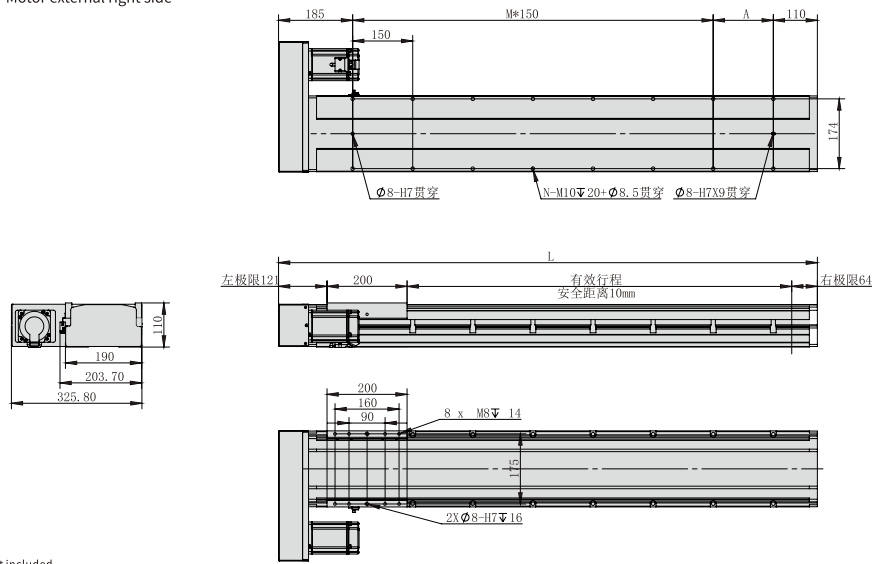
有效行程 Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	495	595	695	795	895	995	1095	1195	1295	1395	1495	1595	1695	1795	1895	1995	2095	2195	2295	2395	2495	2595	2695	2795
A	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
N	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
M	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
KG	14.5	16.5	18.5	20.5	22.5	24.5	26.5	28.5	30.5	32.5	34.5	36.5	38.5	40.5	42.5	44.5	46.5	48.5	50.5	52.5	54.5	56.5	58.5	60.5

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	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	495	595	695	795	895	995	1095	1195	1295	1395	1495	1595	1695	1795	1895	1995	2095	2195	2295	2395	2495	2595	2695	2795
A	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
N	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
M	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
KG	14.5	16.5	18.5	20.5	22.5	24.5	26.5	28.5	30.5	32.5	34.5	36.5	38.5	40.5	42.5	44.5	46.5	48.5	50.5	52.5	54.5	56.5	58.5	60.5

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.



重复精度
Repeat Accuracy
 ± 0.01
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 3000mm

最高速度
Max speed 2000mm/s

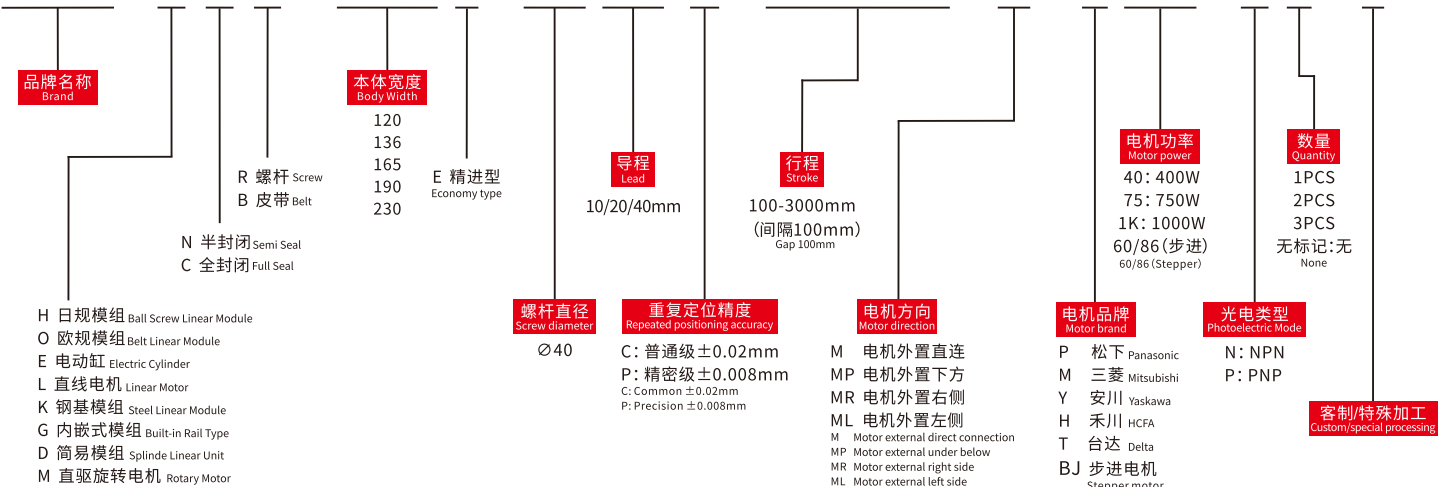
马达容量
Motor output 1000W

滚珠螺杆
Ball screw $\varnothing 40$ mm

直线滑轨
Linear guide 25X22-2支

型号表达方式 Ordering method

TPA-HNR-230E-4010C-L3000-M-P1K-N3-F



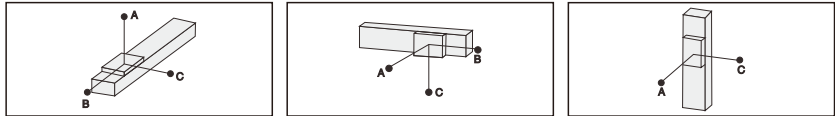
产品性能参数如下 Product performance parameters are as follows

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)		±0.01		
	导程 (mm) Lead (mm)		10	20	40
	最高速度 (mm/s) Maximum speed (mm/s)		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)	200	125	78
		垂直使用 (kg) Vertical (kg)	95	48	30
定格推力 (N) Rated thrust (N)		1598	499	1598	
标准行程 (mm) Stroke pitch (mm)		100~3000mm/100间隔 100 mm 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

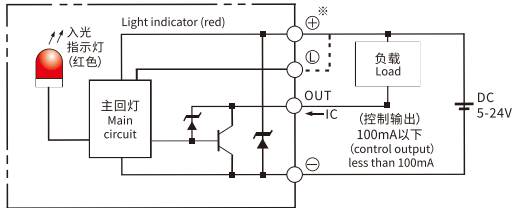


(单位Unit:mm)					(单位Unit:mm)					(单位Unit:mm)				
水平安装 Horizontal installation					侧面安装 Side mounting					垂直安装 Vertical installation				
导程 10 Lead	A	B	C		导程 10 Lead	A	B	C		导程 10 Lead	A	B	C	
	130kg	1496	772	605		130kg	1495	770	605		56kg	1811	1811	
	150kg	1237	513	403		150kg	1236	513	403		70kg	1153	1153	
导程 20 Lead	180kg	1020	248	190	导程 20 Lead	180kg	1021	245	190	导程 20 Lead	84kg	714	714	
	90kg	1450	920	768		90kg	1451	922	766		35kg	1270	1270	
	100kg	1217	573	453		100kg	1215	573	456		40kg	877	877	
导程 40 Lead	125kg	937	395	308	导程 40 Lead	125kg	937	395	307	导程 40 Lead	48kg	754	754	
	45kg	1010	602	482		45kg	1009	605	484		20kg	1170	1175	
	60kg	835	395	223		60kg	836	395	225		25kg	890	891	
导程 40 Lead	78kg	524	243	192	导程 40 Lead	78kg	527	246	191	导程 40 Lead	30kg	531	533	

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)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

感应器连接图<原点及端点> Sensor layout



HNR-E
HNB-E
HFR
HNR
HCR
HNB
HC
HNT
XYZ
参考资料 Reference data

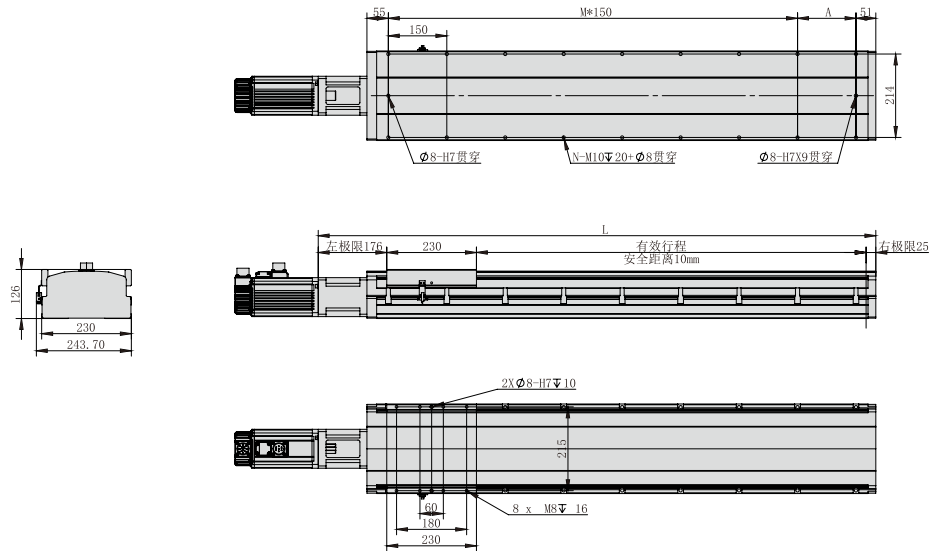


电机外置直连/电机外置下方

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	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	541	641	741	841	941	1041	1141	1241	1341	1441	1541	1641	1741	1841	1941	2041	2141	2241	2341	2441	2541	2641	2741	2841	2941	3041	3141	3241	3341	3441
A	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
KG	25.5	28.5	31.5	34.5	37.5	40.5	43.5	46.5	49.5	52.5	55.5	58.5	61.5	64.5	67.5	70.5	73.5	76.5	79.5	82.5	85.5	88.5	91.5	94.5	97.5	100.5	103.5	106.5	109.5	112.5

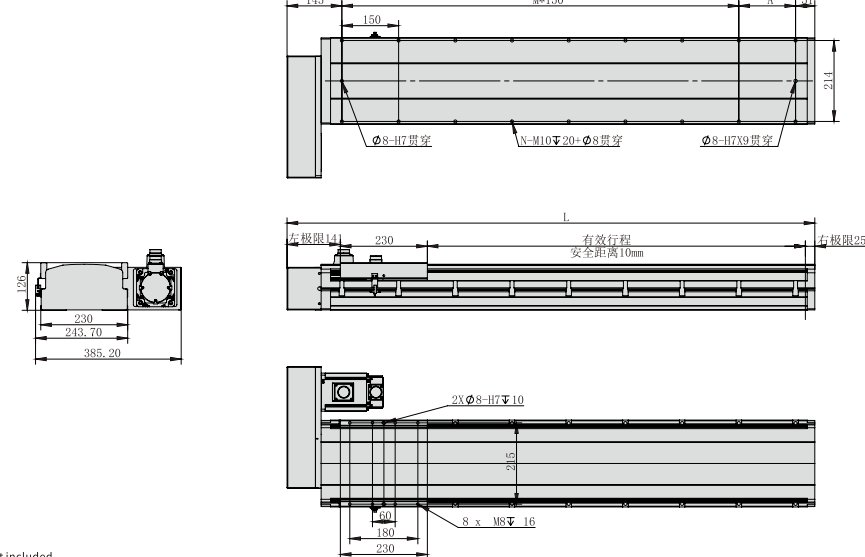
如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

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



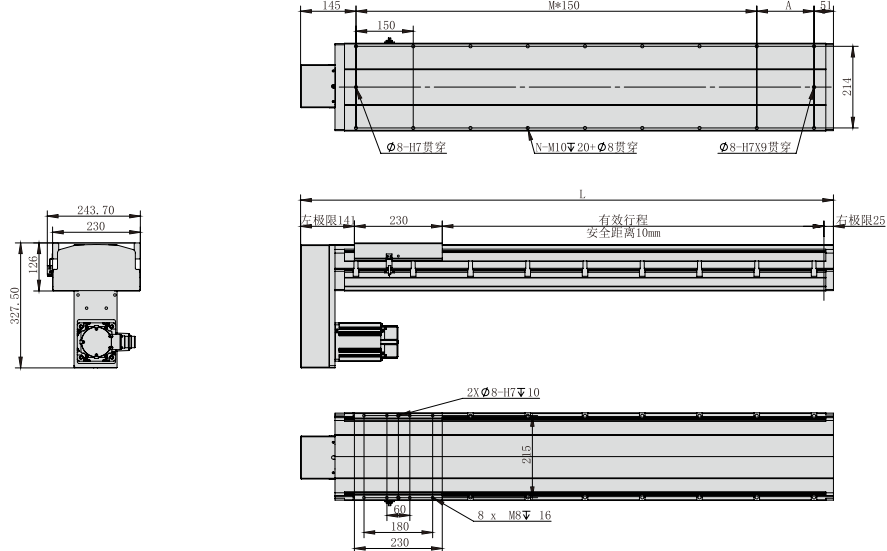
*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	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	506	606	706	806	906	1006	1106	1206	1306	1406	1506	1606	1706	1806	1906	2006	2106	2206	2306	2406	2506	2606	2706	2806	2906	3006	3106	3206	3306	3406
A	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
KG	26	29	32	35	38	41	44	47	50	53	56	59	62	65	68	71	74	77	80	83	86	89	92	95	98	101	104	107	110	113

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



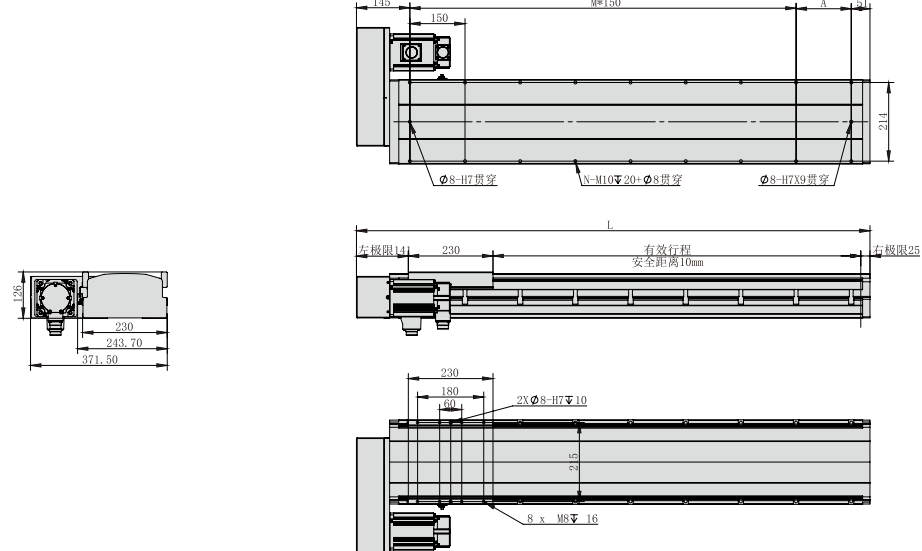
*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	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	506	606	706	806	906	1006	1106	1206	1306	1406	1506	1606	1706	1806	1906	2006	2106	2206	2306	2406	2506	2606	2706	2806	2906	3006	3106	3206	3306	3406
A	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
KG	26	29	32	35	38	41	44	47	50	53	56	59	62	65	68	71	74	77	80	83	86	89	92	95	98	101	104	107	110	113

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	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	506	606	706	806	906	1006	1106	1206	1306	1406	1506	1606	1706	1806	1906	2006	2106	2206	2306	2406	2506	2606	2706	2806	2906	3006	3106	3206	3306	3406
A	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
KG	26	29	32	35	38	41	44	47	50	53	56	59	62	65	68	71	74	77	80	83	86	89	92	95	98	101	104	107	110	113

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.



034



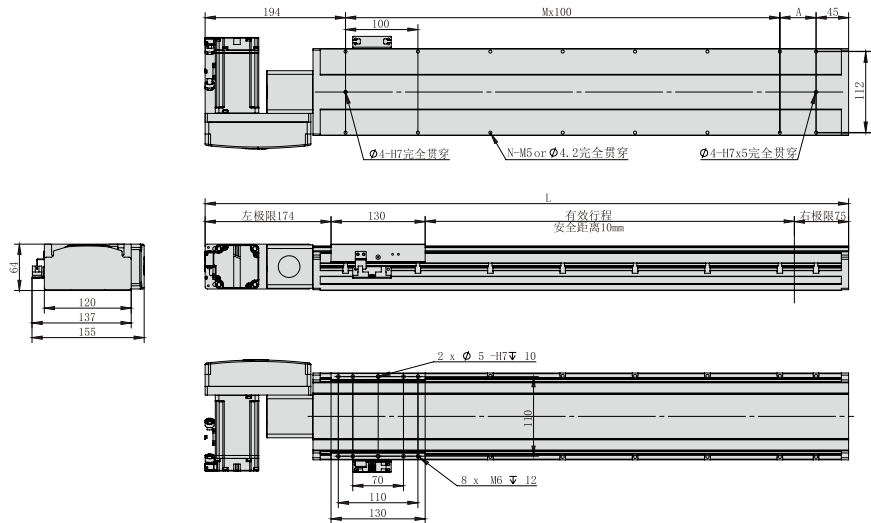
电机外置左侧/电机外置右侧

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	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	539	639	739	839	939	1039	1139	1239	1339	1439	1539	1639	1739	1839	1939	2039	2139	2239	2339	2439	2539	2639	2739	2839	2939	3039	3139	3239	3339	3439
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	50	100	50
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

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.

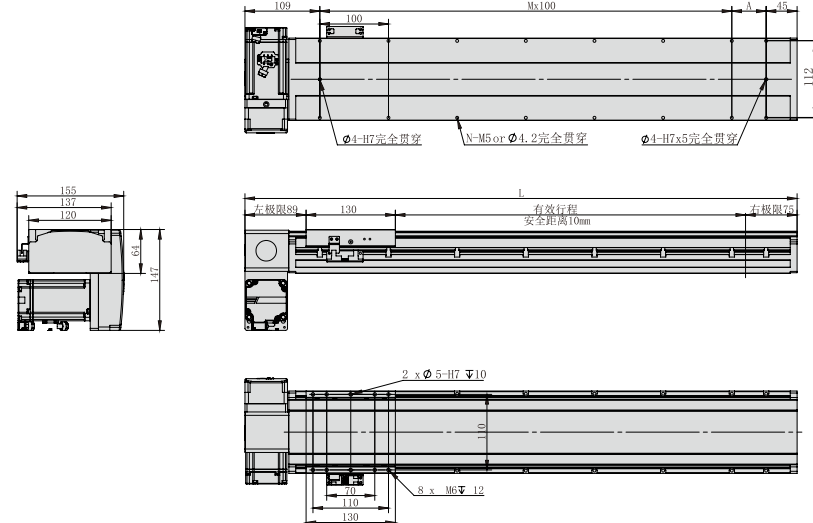
电机外置左下/电机外置左上

Motor external lower left /Motor external upper left

LP

电机外置左下 Motor external lower left

单位:Unit: mm



*不含电机重量。*Motor weight not included.

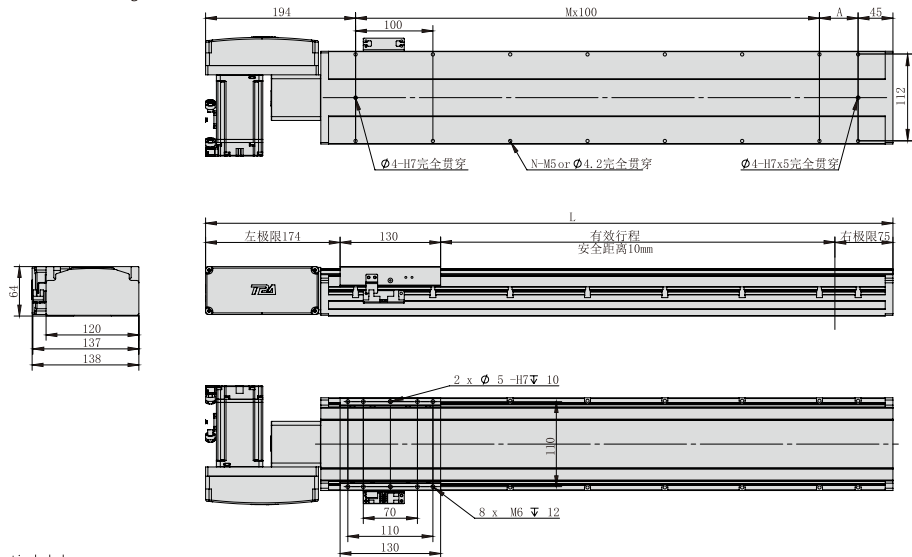
有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	454	554	654	754	854	954	1054	1154	1254	1354	1454	1554	1654	1754	1854	1954	2054	2154	2254	2354	2454	2554	2654	2754	2854	2954	3054	3154	3254	3354
A	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	50	100	50
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7.5	8.5	9.5	10.5	11.5	12.5	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

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.

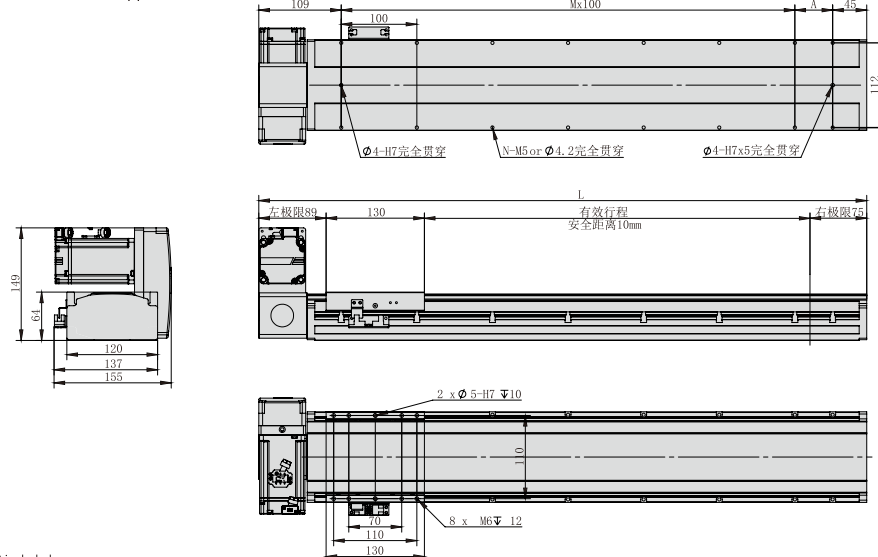
有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	539	639	739	839	939	1039	1139	1239	1339	1439	1539	1639	1739	1839	1939	2039	2139	2239	2339	2439	2539	2639	2739	2839	2939	3039	3139	3239	3339	3439
A	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	50	100	50
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

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.

LU

电机外置左上 Motor external upper left

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	454	554	654	754	854	954	1054	1154	1254	1354	1454	1554	1654	1754	1854	1954	2054	2154	2254	2354	2454	2554	2654	2754	2854	2954	3054	3154	3254	3354
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	50	100	50
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7.5	8.5	9.5	10.5	11.5	12.5	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

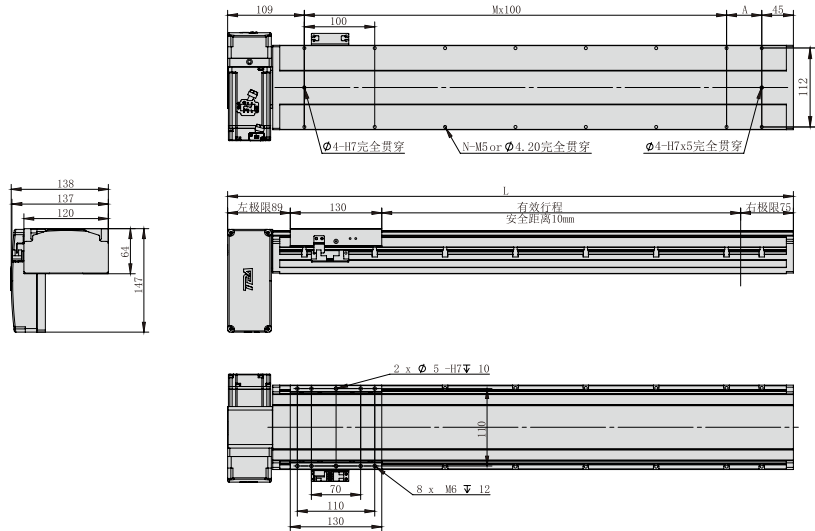
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.



电机外置右下/电机外置右上
Motor external lower right / Motor external upper right

RP 电机外置右下 Motor external lower right

单位:Unit: mm



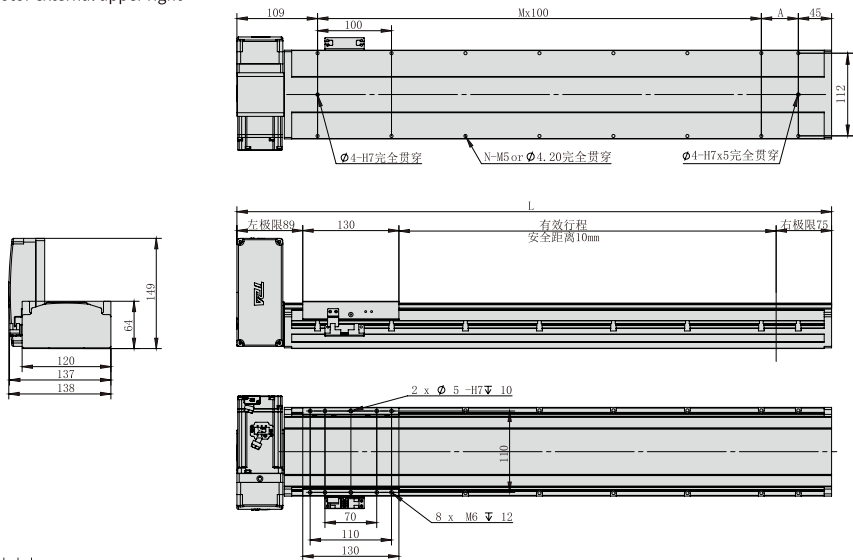
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	454	554	654	754	854	954	1054	1154	1254	1354	1454	1554	1654	1754	1854	1954	2054	2154	2254	2354	2454	2554	2654	2754	2854	2954	3054	3154	3254	3354
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	50	100	50
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7.5	8.5	9.5	10.5	11.5	12.5	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

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.

RU 电机外置右上 Motor external upper right

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	454	554	654	754	854	954	1054	1154	1254	1354	1454	1554	1654	1754	1854	1954	2054	2154	2254	2354	2454	2554	2654	2754	2854	2954	3054	3154	3254	3354
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	50	100	50
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7.5	8.5	9.5	10.5	11.5	12.5	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

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-E

HNB-E

HFR

HNR

HCR

HNB

HCB

HNT

XYZ

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 3050mm

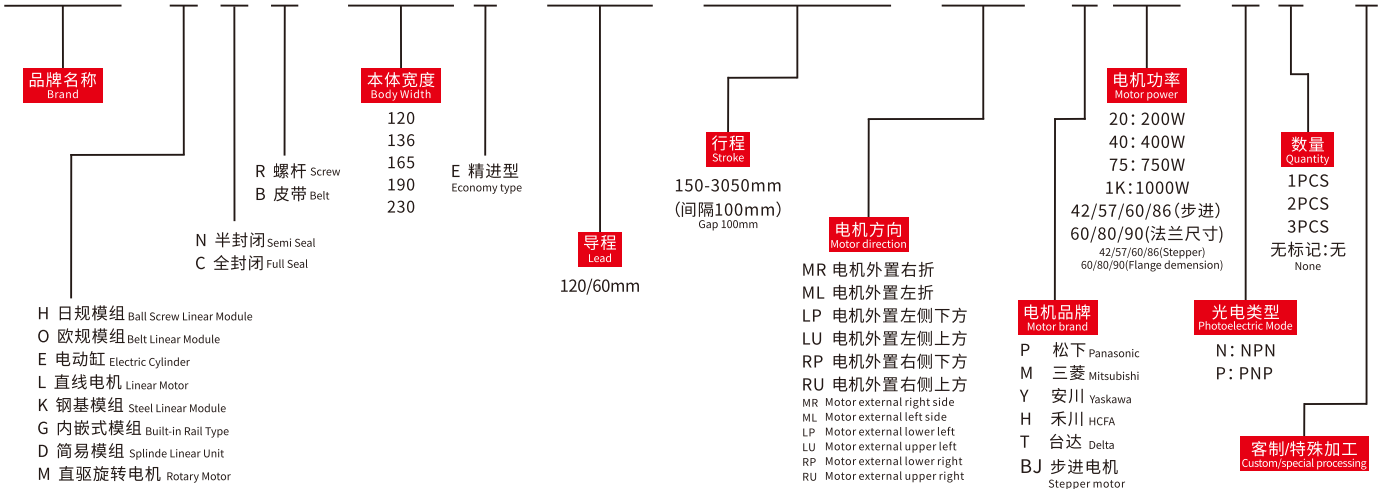
最高速度
Max speed 6000mm/s

马达容量
Motor output 400W

直线滑轨
Linear guide 15X12.5-2支

型号表达方式 Ordering method

TPA-HNB-136E-120-L3050-MR-P40-N3-F



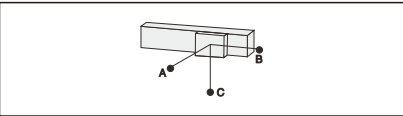
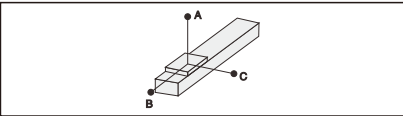
产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率 (W) Motor power (W)	400	
	重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.04	
	减速比 (mm) Reduction ratio	1:1	1:2
	导程 (mm) Lead (mm)	120	60
	最高速度 (mm/s) Maximum speed (mm/s)	6000	
	电机额定转速 (RPM) Rated speed of motor (RPM)	3000	
	最大可搬重量 Maximum Payload	18	36
部品 Parts	标准行程 (mm) Stroke pitch (mm)	150~3050mm/100 间隔100 mm Pitch	
	底座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1	
使用环境 Operating environment	使用环境	0~40℃, 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

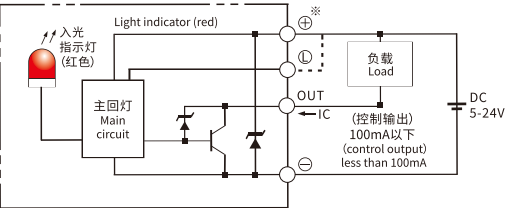


(单位Unit:mm)					(单位Unit:mm)				
水平安装 Horizontal installation		A	B	C	侧面安装 Side mounting		A	B	C
负载 Load	5kg	2629	1279	1150	负载 Load	5kg	1365	1219	2339
	10kg	1559	719	712		10kg	699	649	1319
	20kg	1209	475	434		20kg	379	385	935
	32kg	766	310	288		32kg	199	220	600

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)	400	220	HG-KN43J-S100	MR-JE-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMF042L1U2M	MBDLN25SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECM-B3M-C20604RS1	ASD-B3-0421-L

感应器连接图<原点及端点> Sensor layout



HNR-E
HNB-E
HFR
HNR
HCR
HNB
HCB
HNT
XYZ
参考资料 Reference data

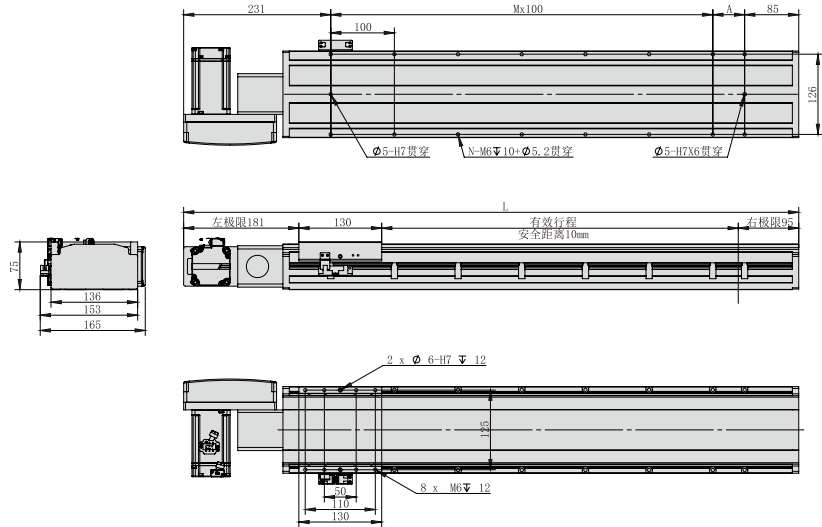


电机外置左侧/电机外置右侧

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	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	566	666	766	866	966	1066	1166	1266	1366	1466	1566	1666	1766	1866	1966	2066	2166	2266	2366	2466	2566	2666	2766	2866	2966	3066	3166	3266	3366	3466
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
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
KG	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37

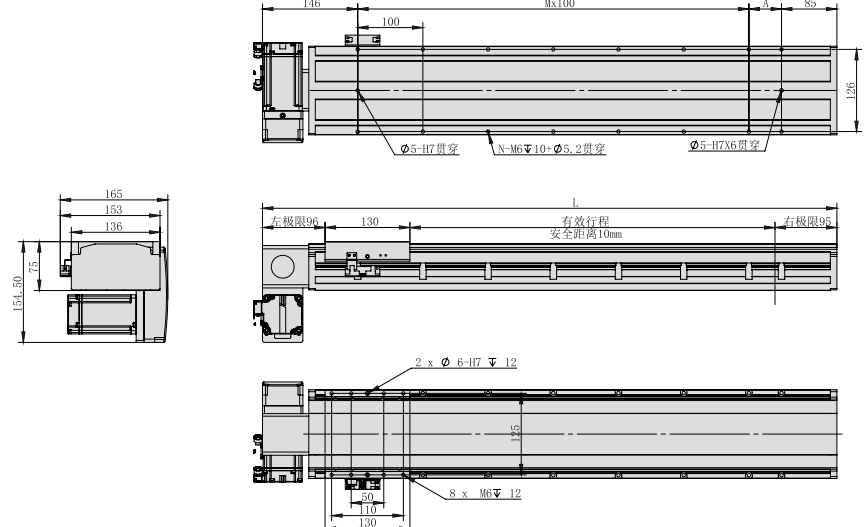
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左下/电机外置左上

Motor external lower left /Motor external upper left

LP 电机外置左下 Motor external lower left

单位:Unit: mm



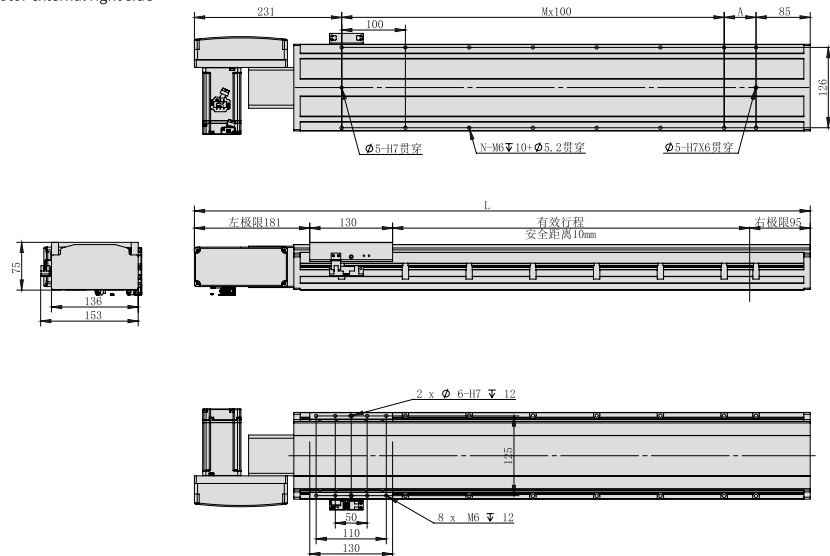
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	481	581	681	781	881	981	1081	1181	1281	1381	1481	1581	1681	1781	1881	1981	2081	2181	2281	2381	2481	2581	2681	2781	2881	2981	3081	3181	3281	3381
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
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
KG	8.5	9.5	10.5	11.5	12.5	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

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



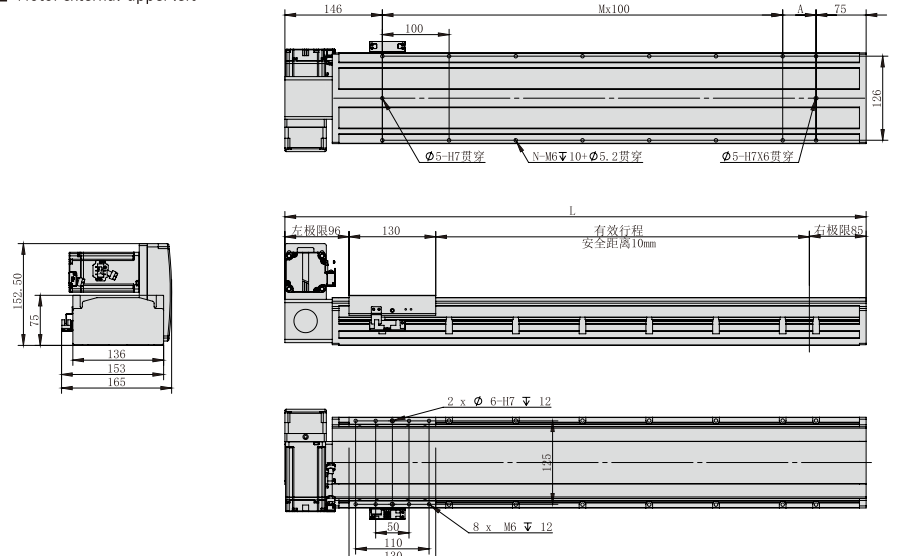
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	566	666	766	866	966	1066	1166	1266	1366	1466	1566	1666	1766	1866	1966	2066	2166	2266	2366	2466	2566	2666	2766	2866	2966	3066	3166	3266	3366	3466
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
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
KG	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37

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.

LU 电机外置左上 Motor external upper left

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	481	581	681	781	881	981	1081	1181	1281	1381	1481	1581	1681	1781	1881	1981	2081	2181	2281	2381	2481	2581	2681	2781	2881	2981	3081	3181	3281	3381
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
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
KG	8.5	9.5	10.5	11.5	12.5	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

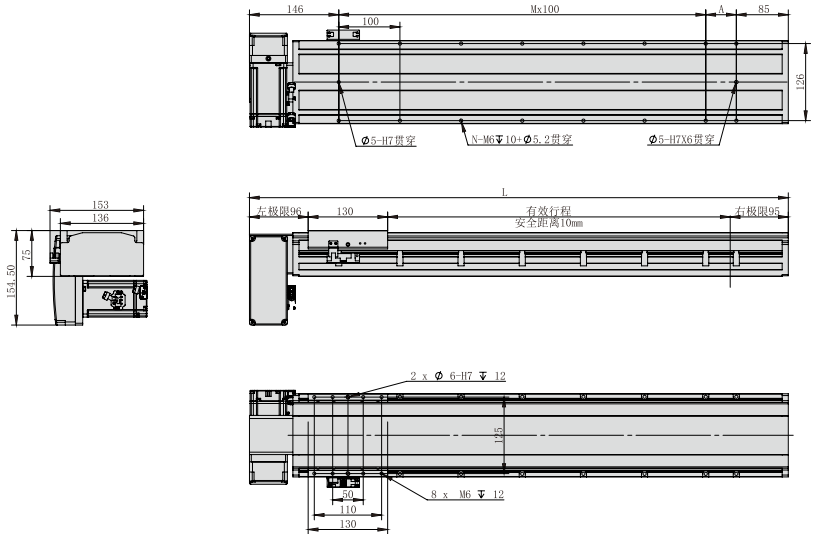
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.



电机外置右下/电机外置右上
Motor external lower right /Motor external upper right

RP 电机外置右下 Motor external lower right

单位:Unit: mm



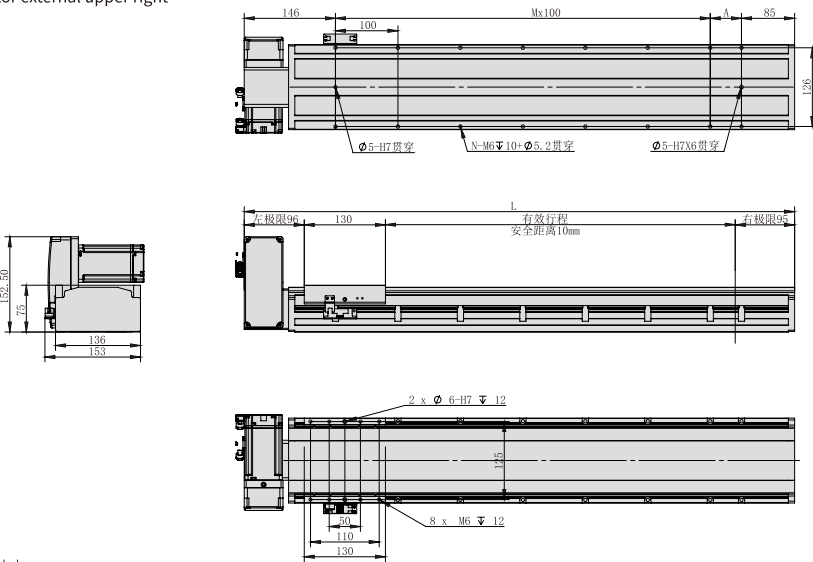
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	481	581	681	781	881	981	1081	1181	1281	1381	1481	1581	1681	1781	1881	1981	2081	2181	2281	2381	2481	2581	2681	2781	2881	2981	3081	3181	3281	3381
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
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
KG	8.5	9.5	10.5	11.5	12.5	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

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.

RU 电机外置右上 Motor external upper right

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	481	581	681	781	881	981	1081	1181	1281	1381	1481	1581	1681	1781	1881	1981	2081	2181	2281	2381	2481	2581	2681	2781	2881	2981	3081	3181	3281	3381
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
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
KG	8.5	9.5	10.5	11.5	12.5	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

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-E

HNB-E

HFR

HNR

HCR

HNB

HCB

HNT

XYZ

参考资料
Reference
data



重复精度
Repeat Accuracy
 ± 0.04
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
3050mm

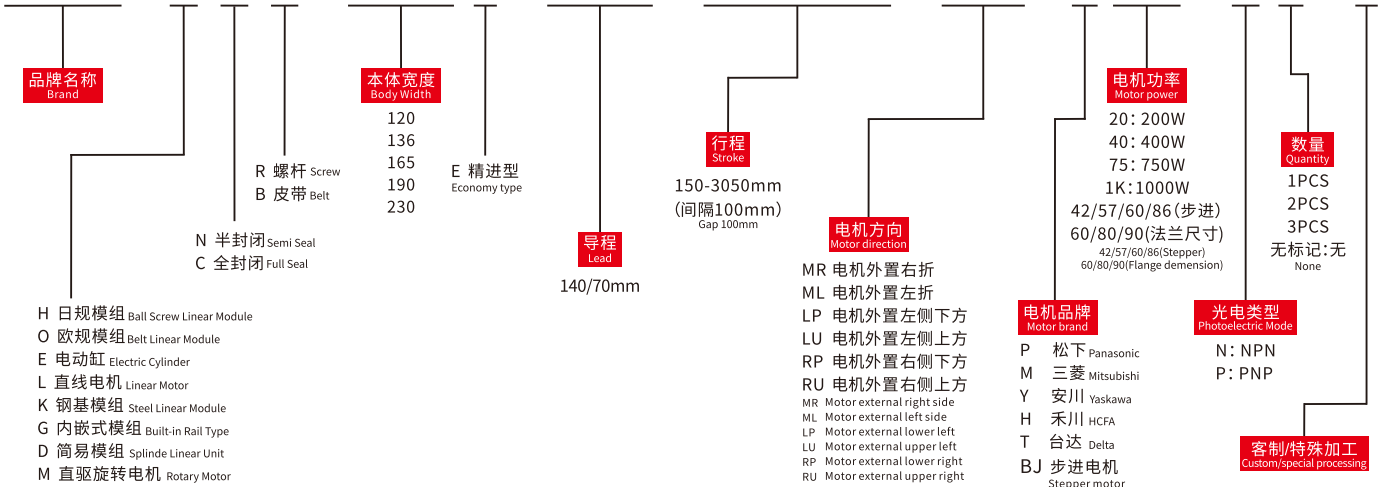
最高速度
Max speed
7000mm/s

马达容量
Motor output
750W

直线滑轨
Linear guide
20X15.5-2支

型号表达方式 Ordering method

TPA-HNB-165E-140-L3050-MR-P75-N3-F



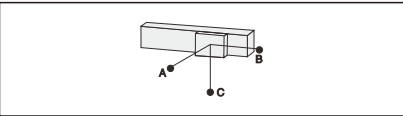
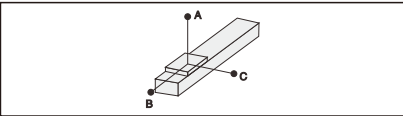
产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率 (W) Motor power (W)	750	
	重复定位精度 (mm) Repeated positioning accuracy (mm)	± 0.04	
	减速比 (mm) Reduction ratio	1:1	1:2
	导程 (mm) Lead (mm)	140	70
	最高速度 (mm/s) Maximum speed (mm/s)	7000	
	电机额定转速 (RPM) Rated speed of motor (RPM)	3000	
	最大可搬重量 Maximum Payload	30	60
部品 Parts	标准行程 (mm) Stroke pitch (mm)	150~3050mm/100 间隔 100 mm Pitch	
	基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1	
	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



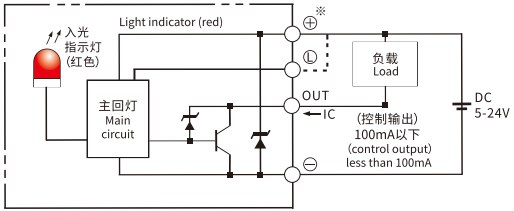
水平安装 Horizontal installation		A	B	C
负载 Load	10kg	2942	1133	1033
	20kg	1430	547	498
	30kg	926	350	320
	45kg	588	219	201

侧面安装 Side mounting		A	B	C
负载 Load	15kg	676	742	1933
	25kg	390	428	1127
	35kg	269	294	781
	45kg	201	219	588

搭配伺服马达一览表 Suitable motor brand

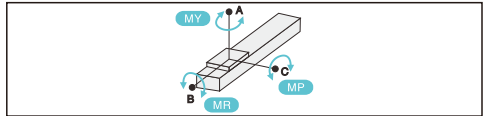
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

感应器连接图<原点及端点> Sensor layout



HNR-E
HNB-E
HFR
HNR
HCR
HNB
HCB
HNT
XYZ
参考资料 Reference data

静态容许负载惯量 Static loading moment



(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.

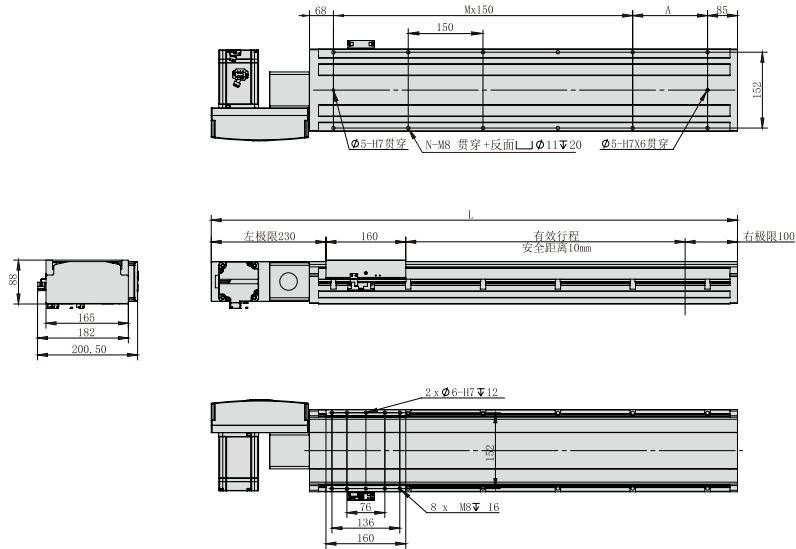


电机外置左侧/电机外置右侧

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	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	655	755	855	955	1055	1155	1255	1355	1455	1555	1655	1755	1855	1955	2055	2155	2255	2355	2455	2555	2655	2755	2855	2955	3055	3155	3255	3355	3455	3555
A	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
KG	10	11	12	13	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

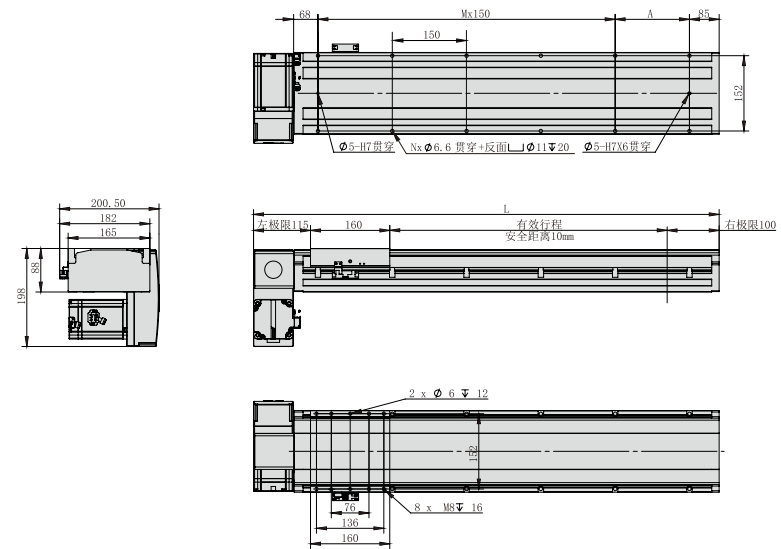
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左下/电机外置左上

Motor external lower left /Motor external upper left

LP 电机外置左下 Motor external lower left

单位:Unit: mm



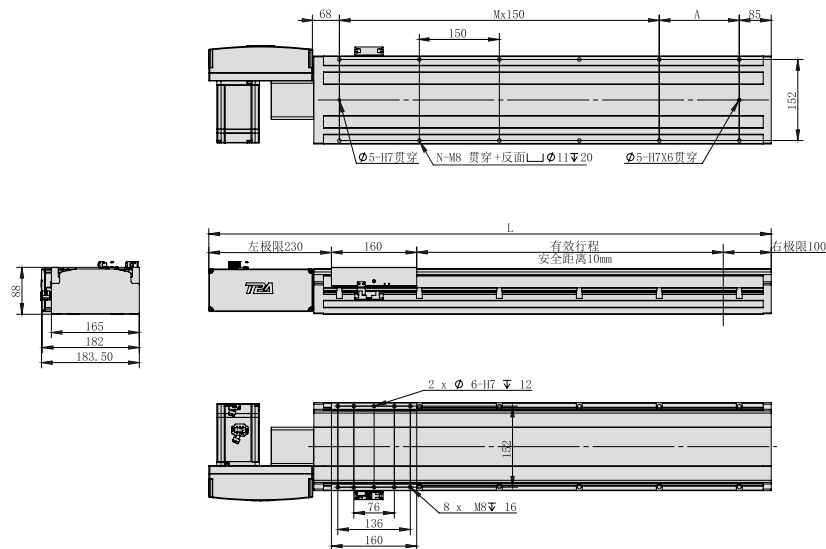
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	540	640	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940	3040	3140	3240	3340	3440
A	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
KG	10	11	12	13	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

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



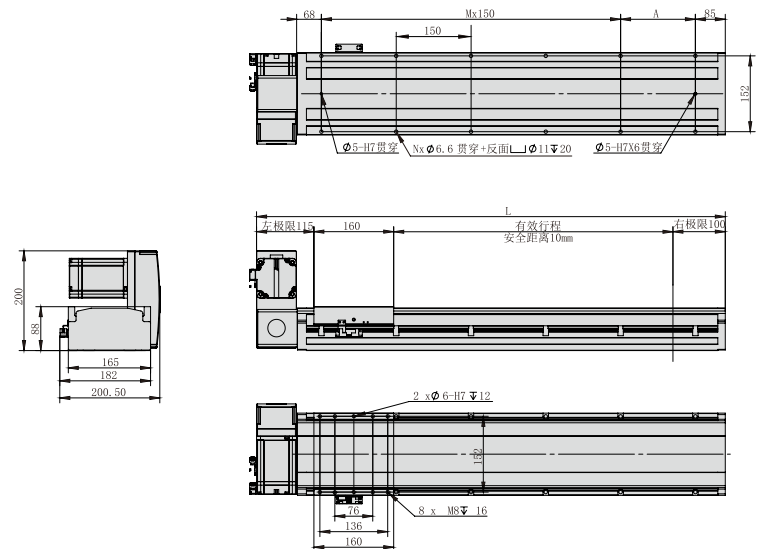
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	655	755	855	955	1055	1155	1255	1355	1455	1555	1655	1755	1855	1955	2055	2155	2255	2355	2455	2555	2655	2755	2855	2955	3055	3155	3255	3355	3455	3555
A	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
KG	10	11	12	13	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

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.

LU 电机外置左上 Motor external upper left

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	540	640	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940	3040	3140	3240	3340	3440
A	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
KG	10	11	12	13	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

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.



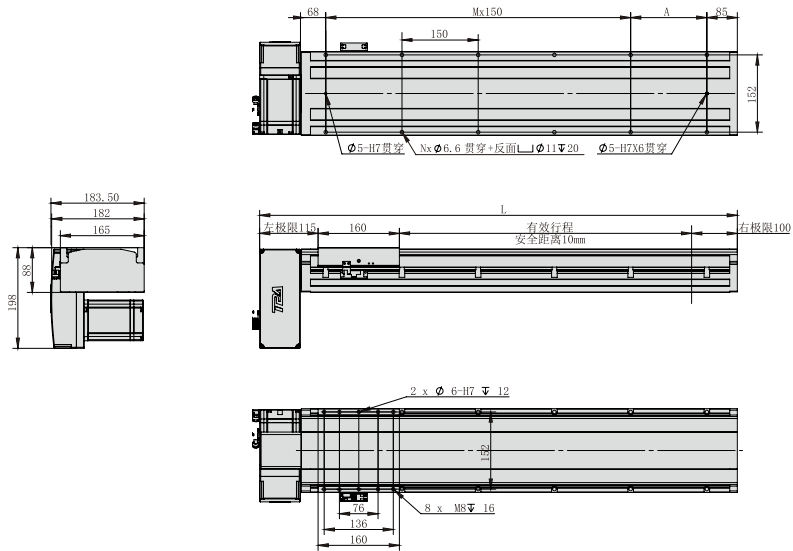
电机外置右下/电机外置右上

Motor external lower right /Motor external upper right

RP

电机外置右下 Motor external lower right

单位:Unit: mm



*不含电机重量。*Motor weight not included.

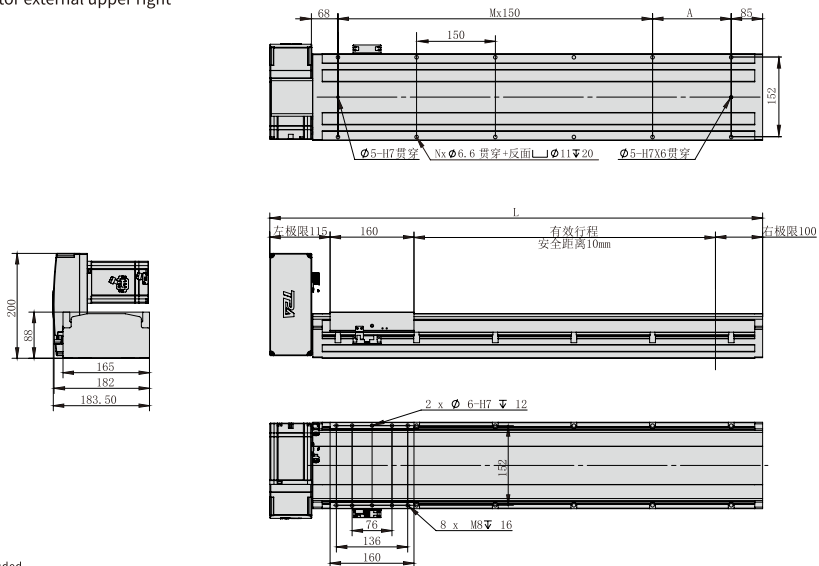
有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	540	640	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940	3040	3140	3240	3340	3440
A	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
KG	10	11	12	13	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

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.

RU

电机外置右上 Motor external upper right

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	540	640	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940	3040	3140	3240	3340	3440
A	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
KG	10	11	12	13	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

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-E

HNB-E

HFR

HNR

HCR

HNB

HCB

HNT

XYZ

参考资料
Reference
data



重复精度
Repeat Accuracy
 ± 0.04
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
3050mm

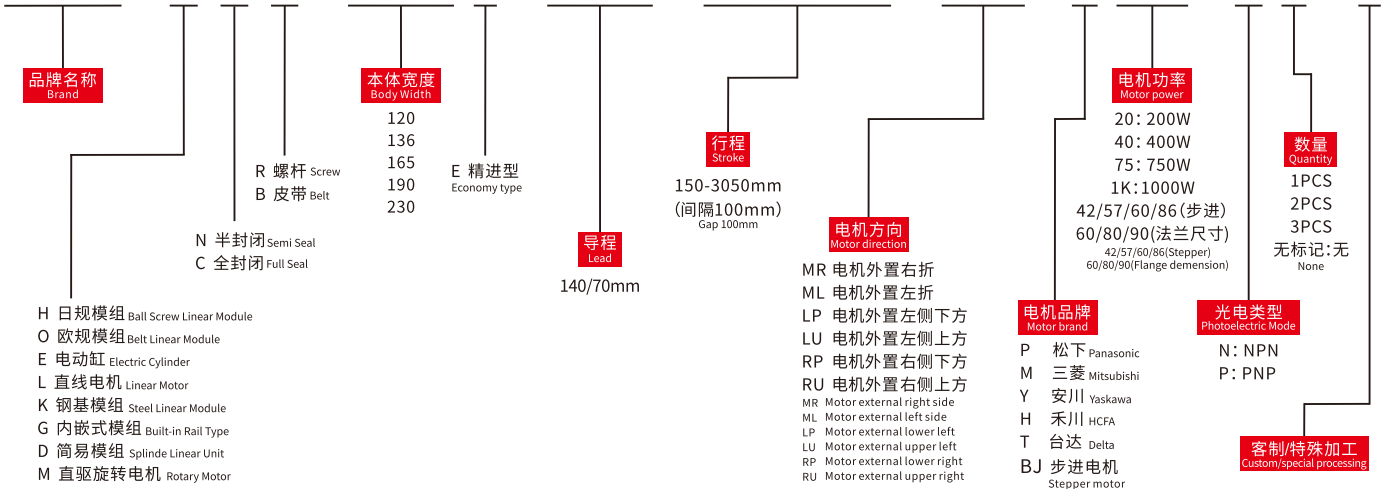
最高速度
Max speed
7000mm/s

马达容量
Motor output
1000W

直线滑轨
Linear guide
25X22-2支

型号表达方式 Ordering method

TPA-HNB-190E-140-L3050-MR-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	
	重复定位精度 (mm) Repeated positioning accuracy (mm)	± 0.04	
	减速比 (mm) Reduction ratio	1:1	1:2
	导程 (mm) Lead (mm)	140	70
	最高速度 (mm/s) Maximum speed (mm/s)	7000	
	电机额定转速 (RPM) Rated speed of motor (RPM)	3000	
	最大可搬重量 Maximum Payload	50	100
部品 Parts	标准行程 (mm) Stroke pitch (mm)	150~3050mm/100 间隔100 mm Pitch	
	基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1	
使用环境 Operating environment	使用环境	0~40°C, 85%RH (无凝结) No condensation	

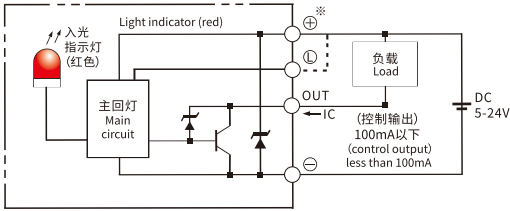
注1: 使用非上述功率电机时请依据实际参数推算。
Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.

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)				
水平安装 Horizontal installation		A	B	C	侧面安装 Side mounting		A	B	C
负载 Load	45kg	3444	1015	1358	负载 Load	45kg	1410	925	3435
	65kg	2460	725	970		65kg	1010	664	2455
	85kg	1800	550	740		85kg	770	500	1886

感应器连接图<原点及端点> Sensor layout



HNR-E
HNB-E
HFR
HNR
HCR
HNB
HCB
HNT
XYZ
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)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

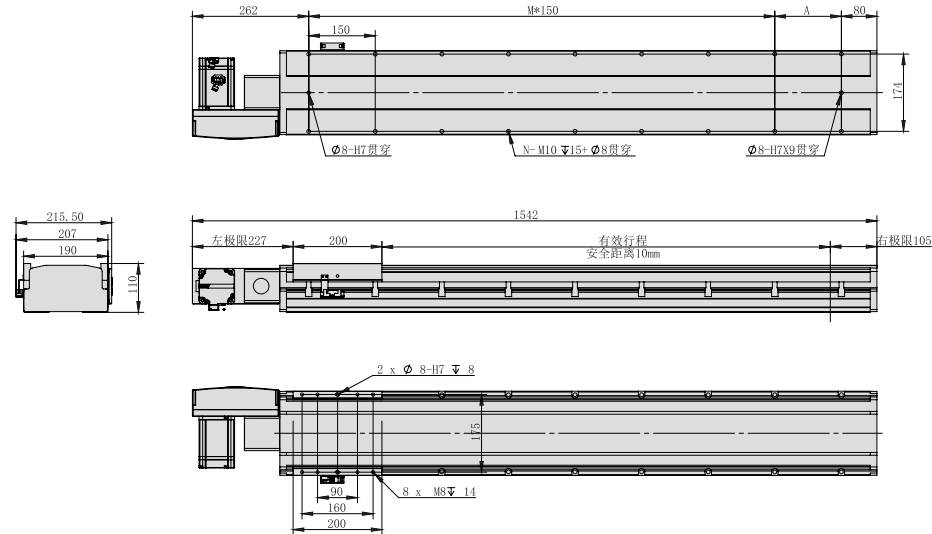


电机外置左侧/电机外置右侧

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	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	692	792	892	992	1092	1192	1292	1392	1492	1592	1692	1792	1892	1992	2092	2192	2292	2392	2492	2592	2692	2792	2892	2992	3092	3192	3292	3392	3492	3592
A	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	150
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
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
KG	12	13.5	15	16.5	18	19.5	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

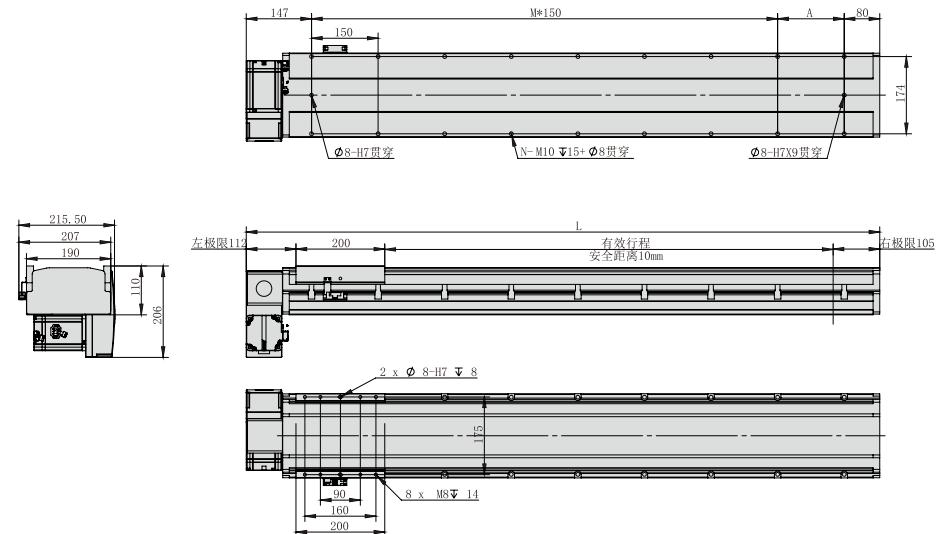
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左下/电机外置左上

Motor external lower left / Motor external upper left

LP 电机外置左下 Motor external lower left

单位:Unit: mm



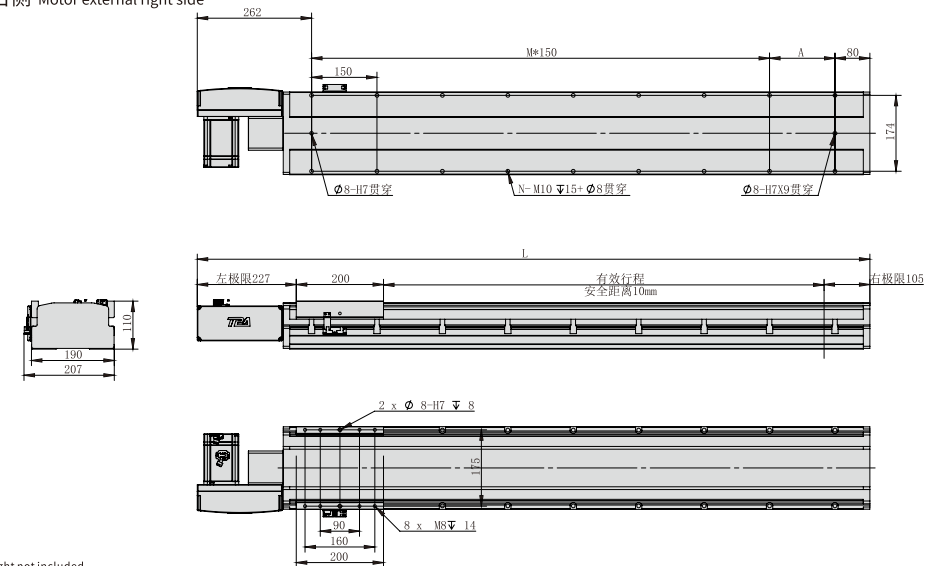
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	577	677	777	877	977	1077	1177	1277	1377	1477	1577	1677	1777	1877	1977	2077	2177	2277	2377	2477	2577	2677	2777	2877	2977	3077	3177	3277	3377	3477
A	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	150
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
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
KG	12	13.5	15	16.5	18	19.5	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

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



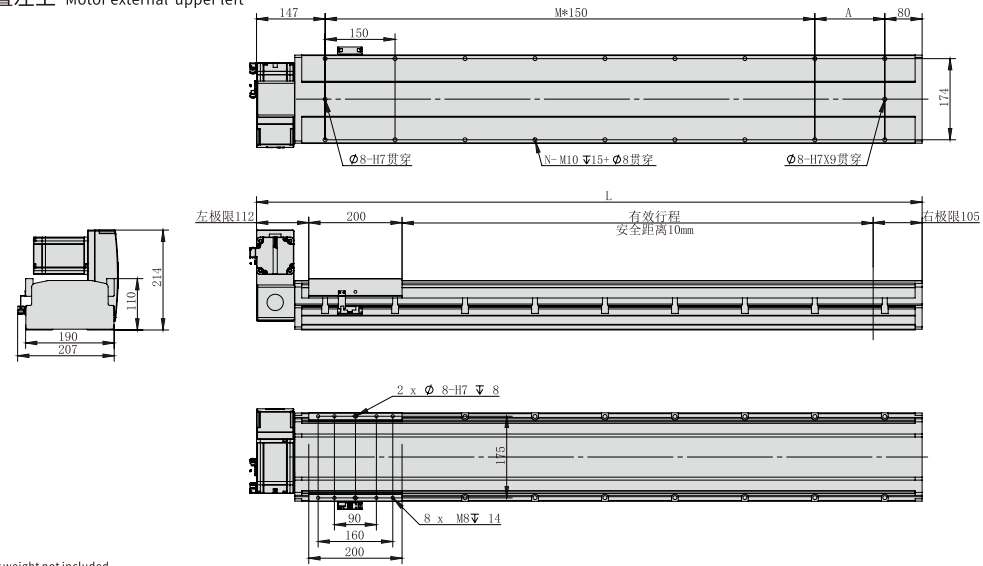
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	692	792	892	992	1092	1192	1292	1392	1492	1592	1692	1792	1892	1992	2092	2192	2292	2392	2492	2592	2692	2792	2892	2992	3092	3192	3292	3392	3492	3592
A	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	150
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
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
KG	12	13.5	15	16.5	18	19.5	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

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.

LU 电机外置左上 Motor external upper left

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	577	677	777	877	977	1077	1177	1277	1377	1477	1577	1677	1777	1877	1977	2077	2177	2277	2377	2477	2577	2677	2777	2877	2977	3077	3177	3277	3377	3477
A	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	150
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
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
KG	12	13.5	15	16.5	18	19.5	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

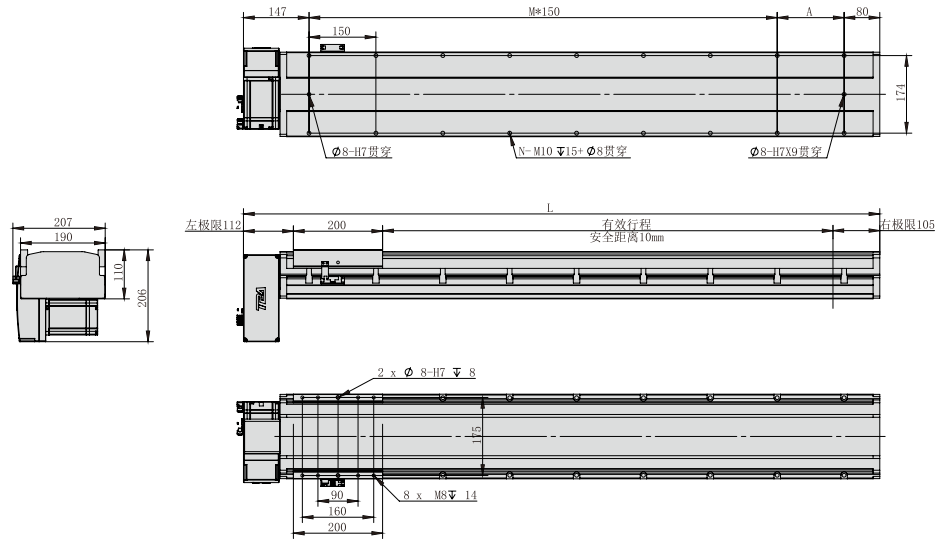
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.



电机外置右下/电机外置右上
Motor external lower right / Motor external upper right

RP 电机外置右下 Motor external lower right

单位:Unit: mm



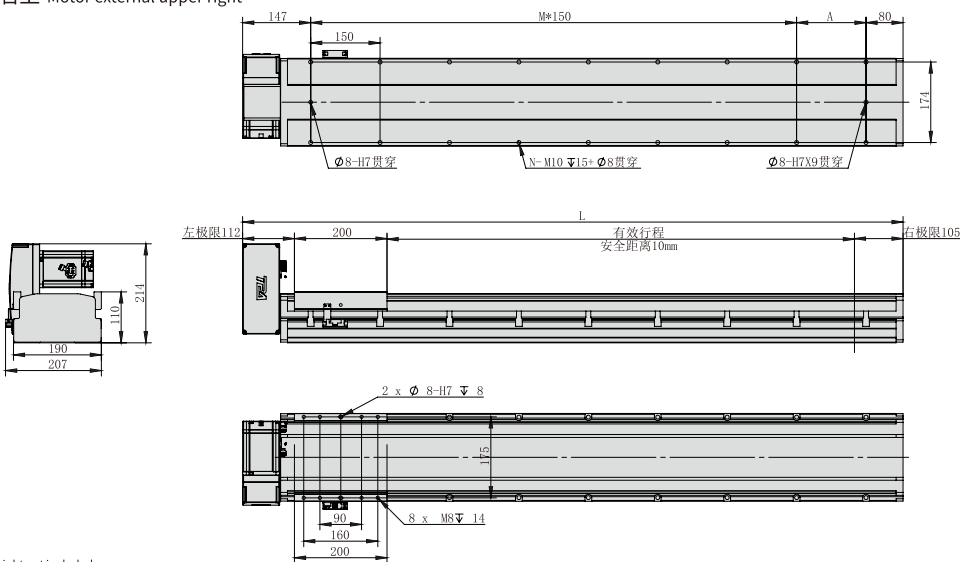
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	577	677	777	877	977	1077	1177	1277	1377	1477	1577	1677	1777	1877	1977	2077	2177	2277	2377	2477	2577	2677	2777	2877	2977	3077	3177	3277	3377	3477
A	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	150
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
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
KG	12	13.5	15	16.5	18	19.5	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

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.

RU 电机外置右上 Motor external upper right

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	577	677	777	877	977	1077	1177	1277	1377	1477	1577	1677	1777	1877	1977	2077	2177	2277	2377	2477	2577	2677	2777	2877	2977	3077	3177	3277	3377	3477
A	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	150
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
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
KG	12	13.5	15	16.5	18	19.5	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

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-E

HNB-E

HFR

HNR

HCR

HNB

HC

HNT

XYZ

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 1200mm

最高速度
Max speed 1000mm/s

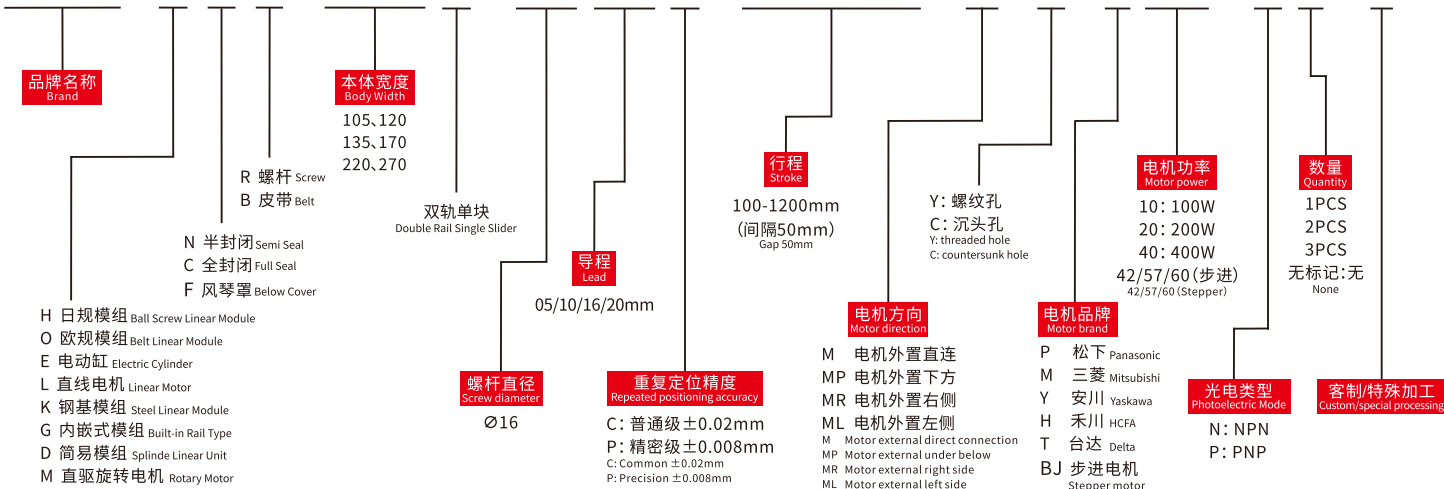
马达容量
Motor output 200W

滚珠螺杆
Ball screw Ø16mm

直线滑轨
Linear guide 15X18-2支

型号表达方式 Ordering method

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



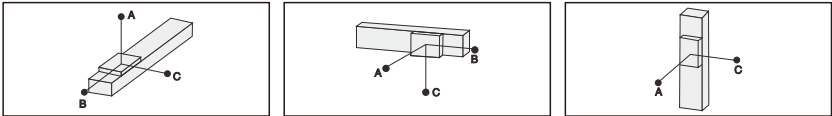
产品性能参数如下 Product performance parameters are as follows

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)	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				
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℃, 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

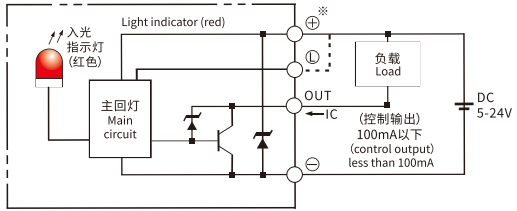


(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)			
水平安装 Horizontal installation				侧面安装 Side mounting				垂直安装 Vertical installation			
导程 5 Lead	A	B	C	导程 5 Lead	A	B	C	导程 5 Lead	A	B	C
30kg	21	32	262	10kg	602	187	153	10kg	93	106	
50kg	1	2	48	20kg	380	92	75	13kg	42	71	
60kg	-	-	-	30kg	9	-	-	15kg	23	41	
导程 10 Lead	A	B	C	导程 10 Lead	A	B	C	导程 10 Lead	A	B	C
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	-	-	-	9kg	100	118	
导程 16 Lead	A	B	C	导程 16 Lead	A	B	C	导程 16 Lead	A	B	C
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	8kg	60	85	
5kg	385	407	629	3kg	462	228	179	1kg	546	570	
导程 20 Lead	A	B	C	导程 20 Lead	A	B	C	导程 20 Lead	A	B	C
10kg	110	179	381	7kg	289	94	76	3kg	375	391	
20kg	63	98	230	10kg	211	55	39	5kg	123	150	

搭配伺服马达一览表 Suitable motor brand

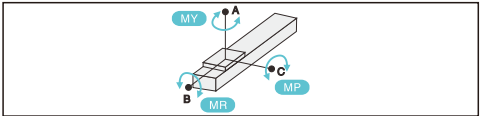
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal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

感应器连接图<原点及端点> Sensor layout



HNR
HCR
HNB
HCB
HNT
XYZ
参考资料 Reference data

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.

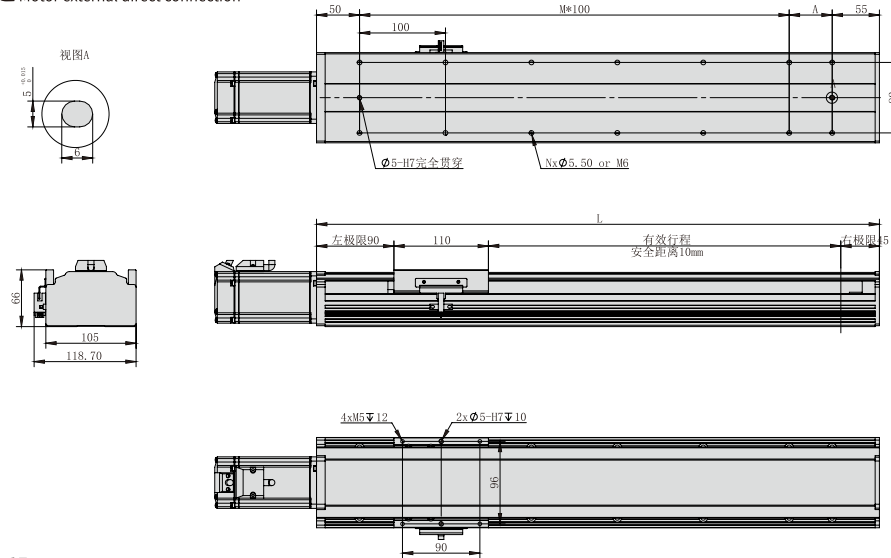
*倒吊使用无法套用标准规范,如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.



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.

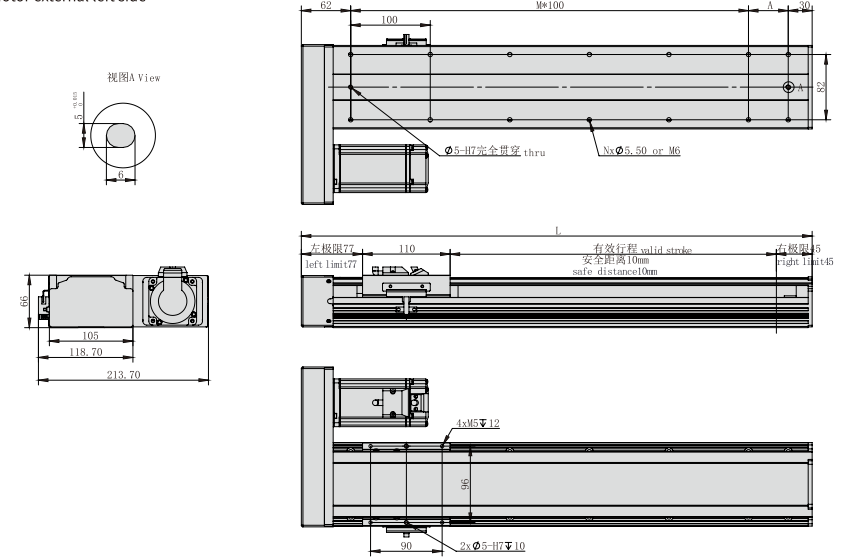
有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	355	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305
A	50	100	50	50	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	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	3.5	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

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



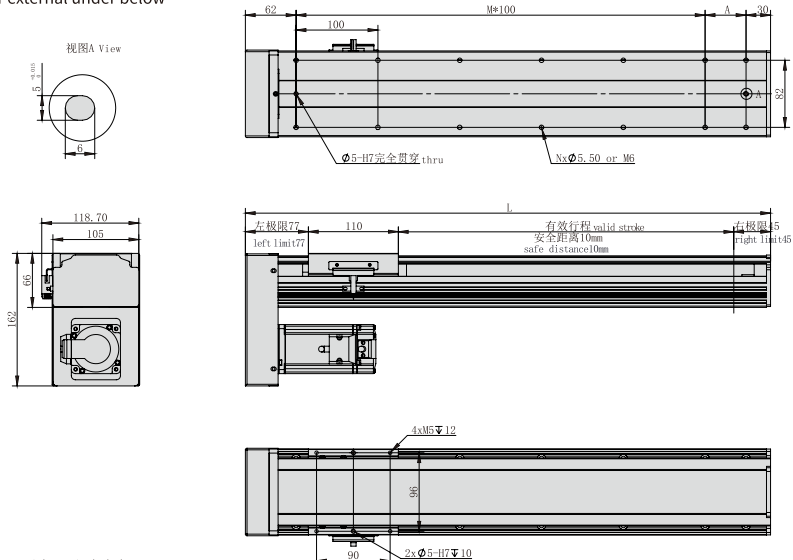
单位:Unit: mm

*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	342	392	442	492	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292
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	3.5	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

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



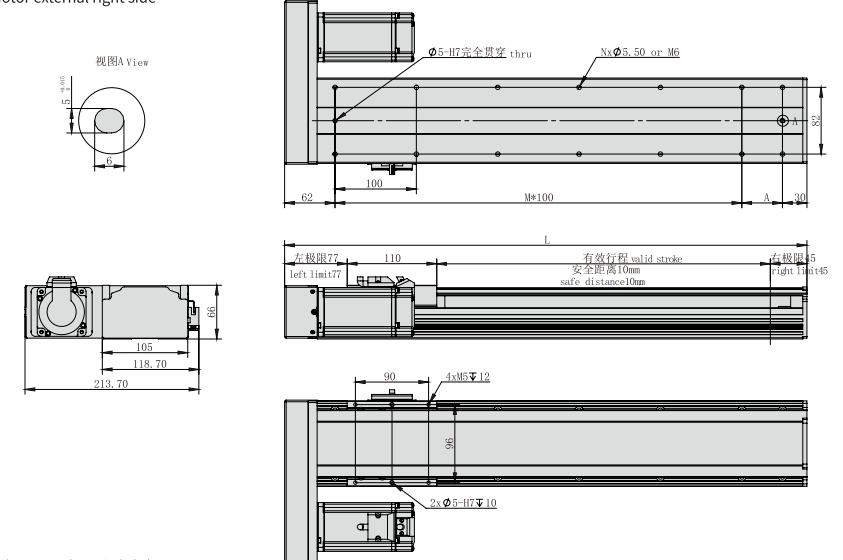
单位:Unit: mm

*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	342	392	442	492	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292
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	22	22	24	24	26	26	26
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
KG	3.5	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

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	342	392	442	492	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292
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	3.5	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

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.



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

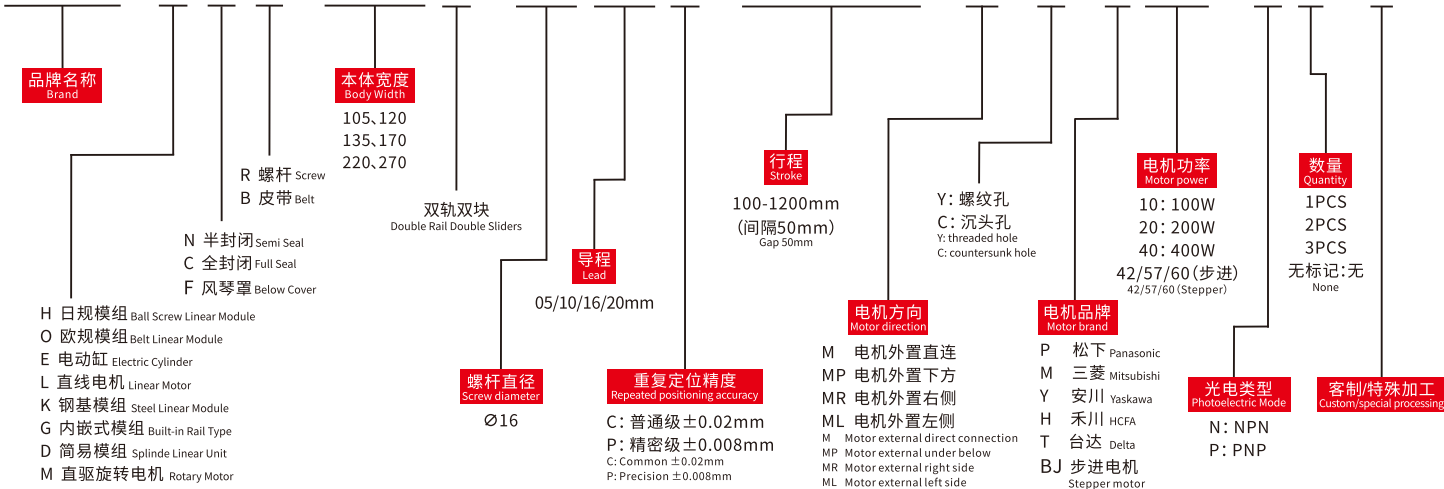
马达容量
Motor output 200W

滚珠螺杆
Ball screw $\varnothing 16$ mm

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



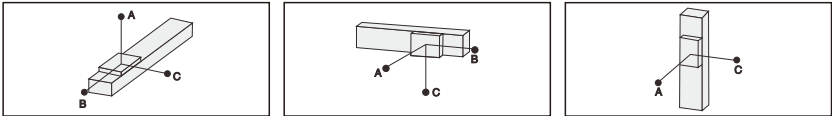
产品性能参数如下 Product performance parameters are as follows

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℃, 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

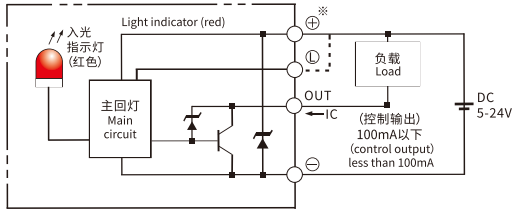


(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)					
水平安装 Horizontal installation		A	B	C	侧面安装 Side mounting		A	B	C	垂直安装 Vertical installation		A	C
导程 5 Lead	30kg	882	65	78	导程 5 Lead	25kg	100	84	1102	导程 5 Lead	5kg	544	544
	40kg	606	43	51		35kg	63	52	725		8kg	341	341
	50kg	437	29	35		50kg	35	29	433		12kg	227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

搭配伺服马达一览表 Suitable motor brand

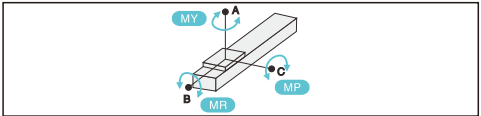
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal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

感应器连接图<原点及端点> Sensor layout



HNR
HCR
HNB
HC
HNT
XYZ
参考资料 Reference data

静态容许负载惯量 Static loading moment



(单位Unit:N.m)	
MY	150
MP	150
MR	130

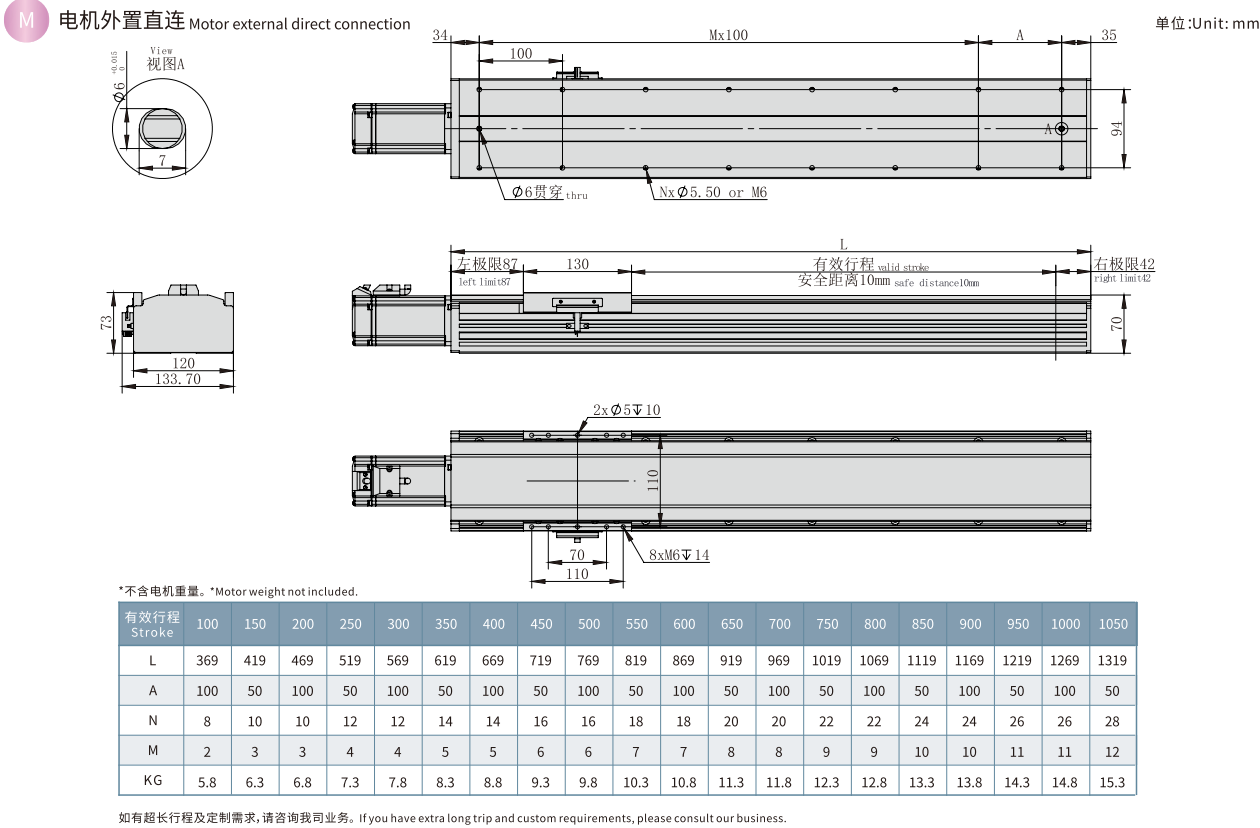
*力矩表所表示的数据,代表重心。
The torque value in the chart indicate the center of gravity.

*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.

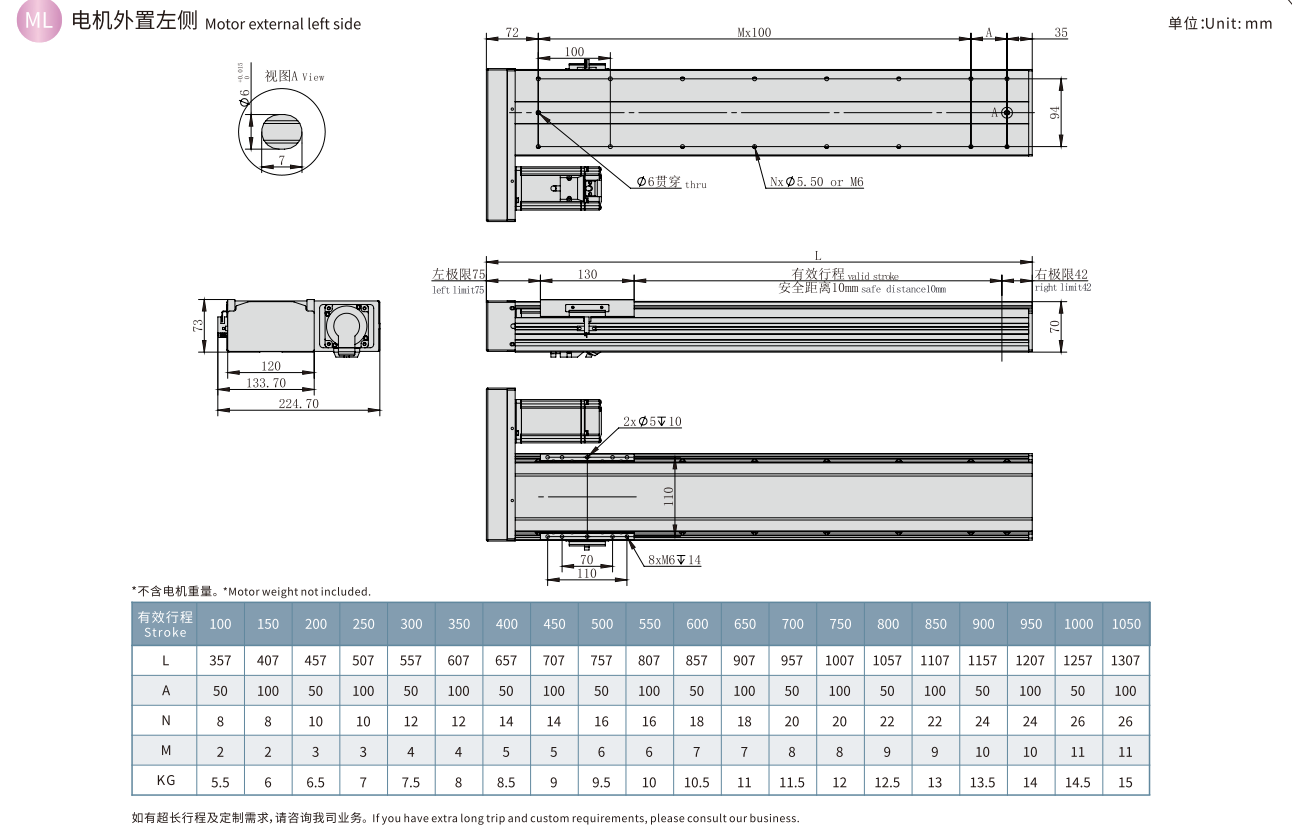


电机外置直连/电机外置下方
Motor external direct connection/Motor external under below

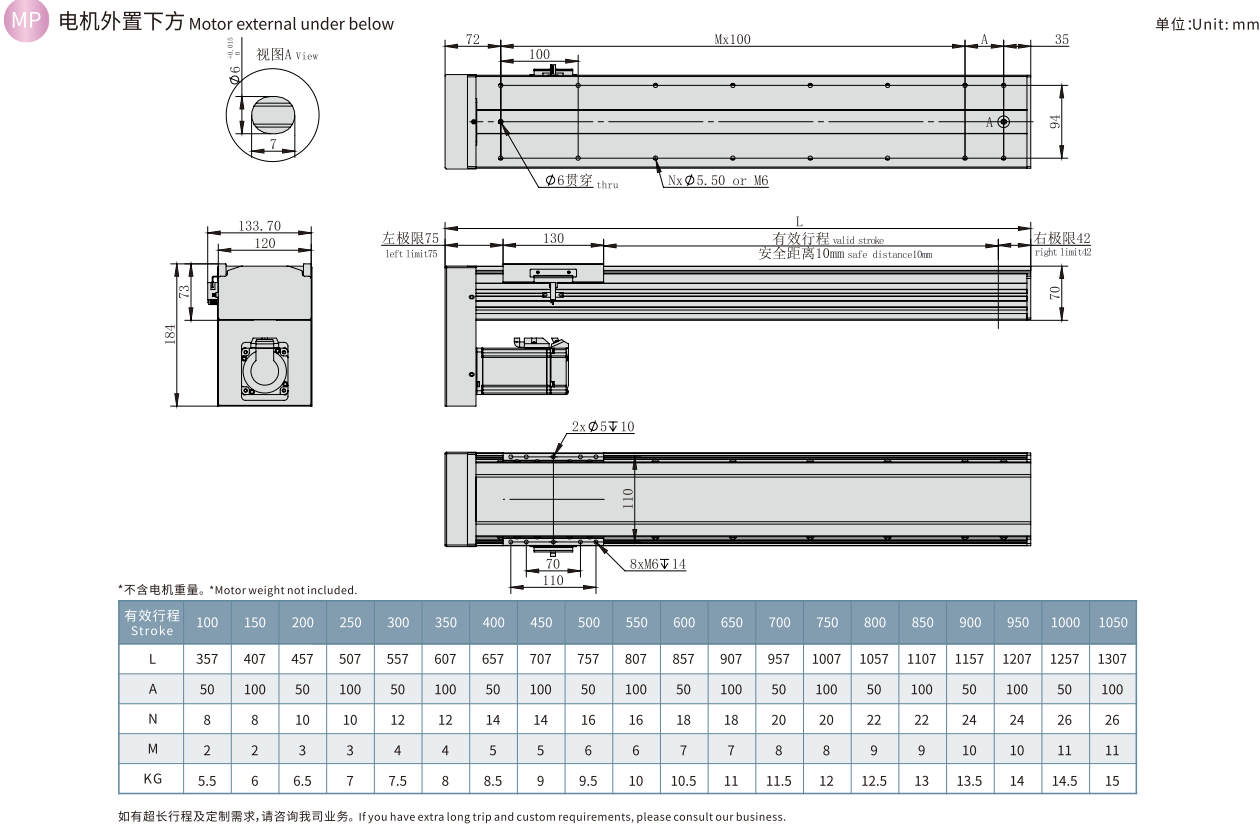


如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

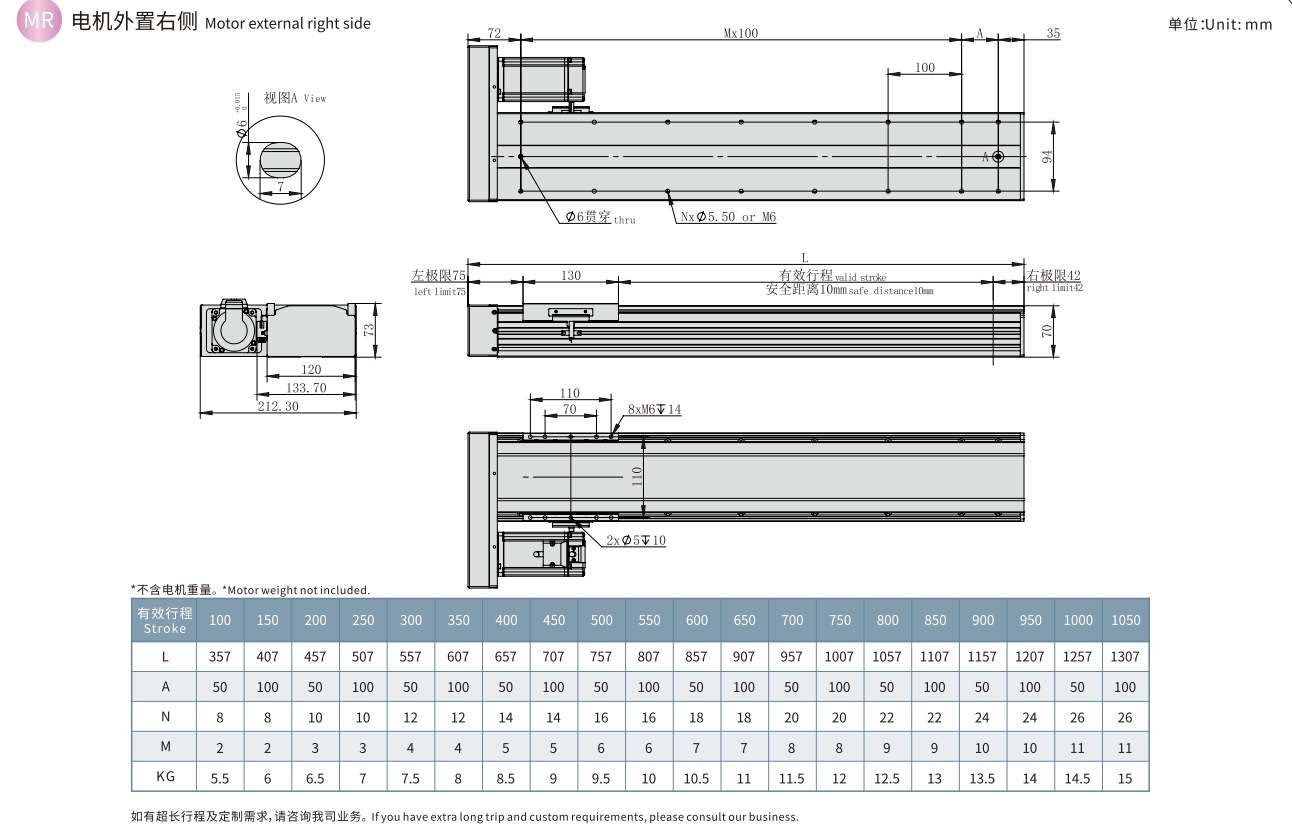
电机外置左侧/电机外置右侧
Motor external left side / Motor external right side



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.



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.



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.



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

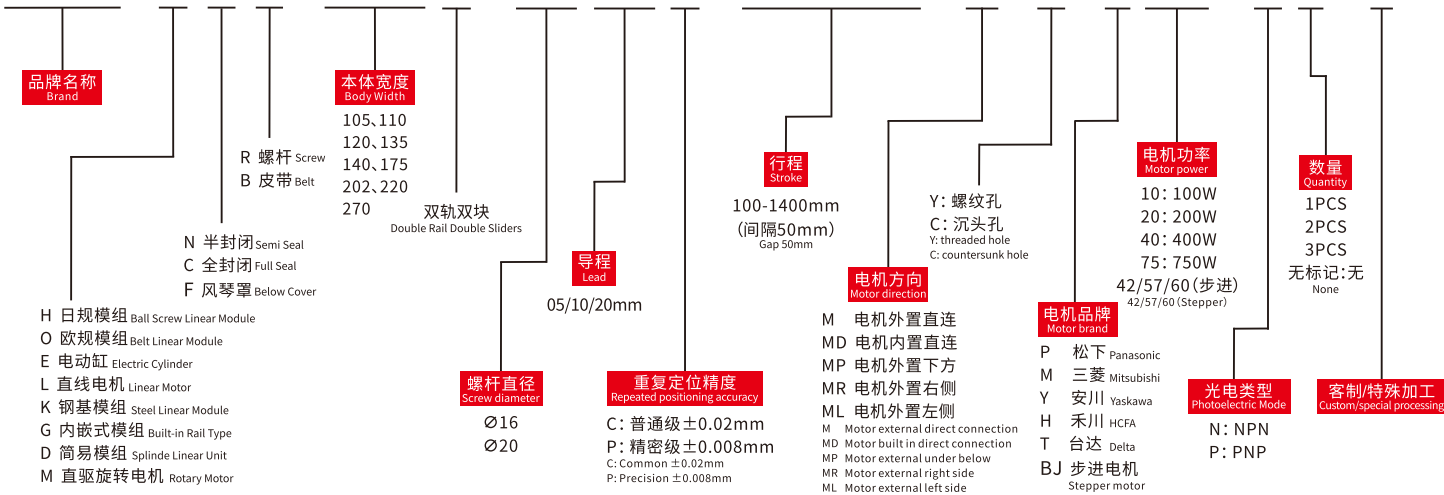
马达容量
Motor output 400W

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



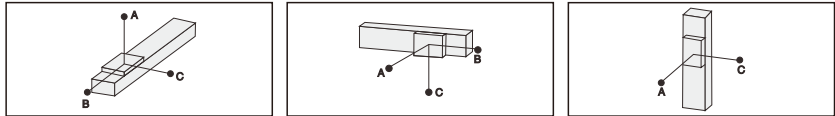
产品性能参数如下 Product performance parameters are as follows

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
	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)	110	88
		垂直使用 (kg) Vertical (kg)	50	40
	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		
部 品 Parts	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℃, 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

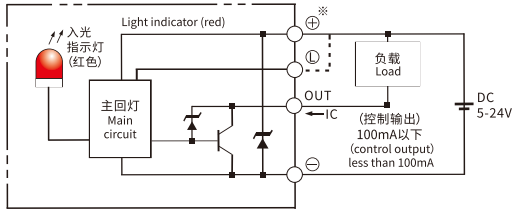


(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)			
水平安装 Horizontal installation				侧面安装 Side mounting				垂直安装 Vertical installation			
导程 5 Lead	A	B	C	导程 5 Lead	A	B	C	导程 5 Lead	A	B	C
60kg	2515	242	232	55kg	257	269	2883	15kg	1118	1118	
80kg	1811	172	164	75kg	178	186	2000	22kg	770	770	
95kg	1537	138	133	95kg	133	138	1537	27kg	626	626	
导程 10 Lead	A	B	C	导程 10 Lead	A	B	C	导程 10 Lead	A	B	C
30kg	2727	470	430	35kg	363	395	2368	10kg	1500	1500	
50kg	1577	266	242	55kg	218	238	1445	14kg	1072	1072	
75kg	1004	164	150	75kg	150	164	1004	18kg	833	833	
导程 20 Lead	A	B	C	导程 20 Lead	A	B	C	导程 20 Lead	A	B	C
10kg	2304	1222	1028	12kg	854	1019	2552	4kg	2980	2980	
22kg	1443	540	451	20kg	500	596	1588	7kg	1700	1700	
35kg	1005	324	271	35kg	271	324	1005	-	-	-	

搭配伺服马达一览表 Suitable motor brand

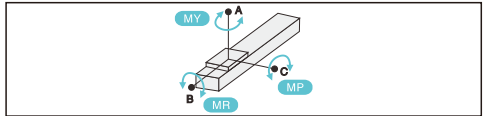
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	400	220	HG-KN43J-S100	MR-JE-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMF042L1U2M	MBDLN25SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECM-B3M-C20604RS1	ASD-B3-0421-L

感应器连接图<原点及端点> Sensor layout



HNR-E
HNB-E
HFR
HNR
HCR
HNB
HCB
HNT
XYZ
参考资料 Reference data

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.

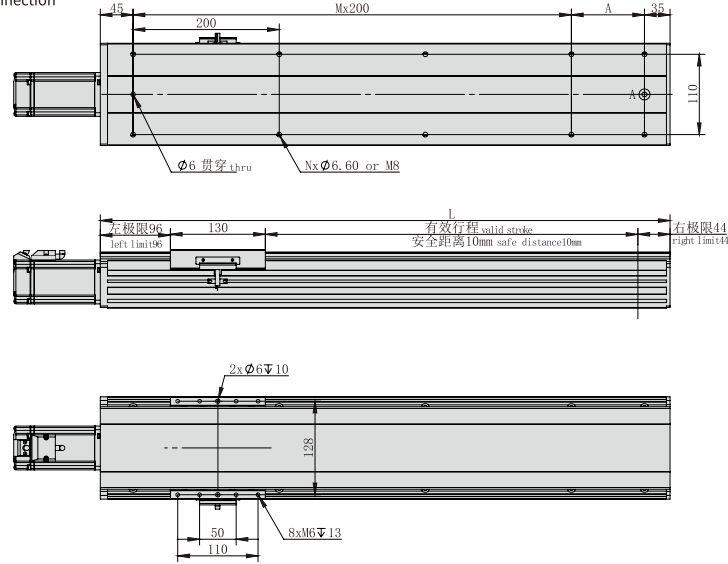
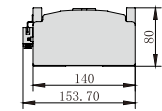
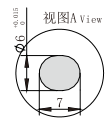
*倒吊使用无法套用标准规范,如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.



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



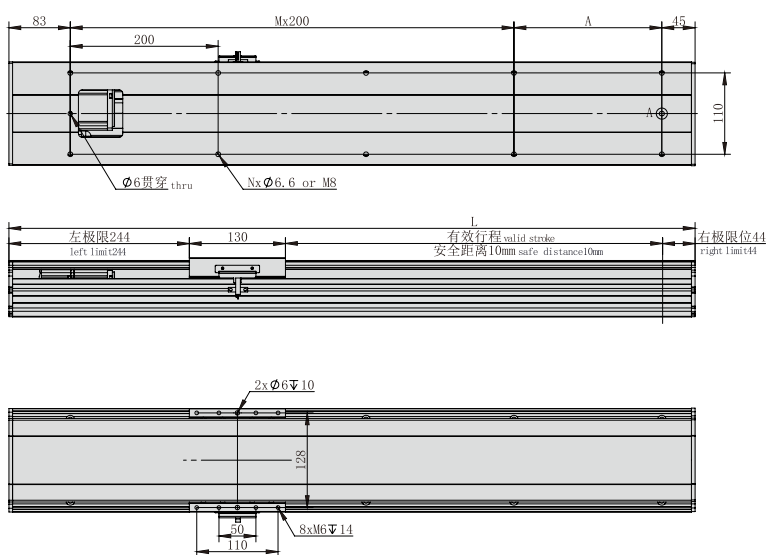
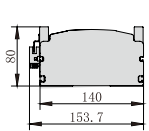
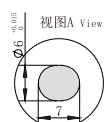
单位:Unit: mm

*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	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.

MD 电机内置直连 Motor built in direct connection



单位:Unit: mm

*不含电机重量。*Motor weight not included.

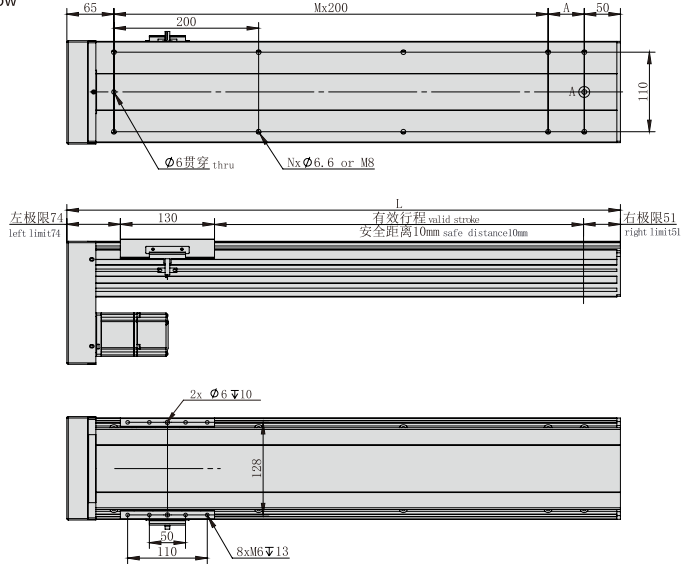
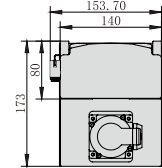
有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
L	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678	1728	1778	1828
A	200	50	100	150	200	50	100	150	200	50	100	150	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	14	14	14	16	16	16	16	18	18	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.

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



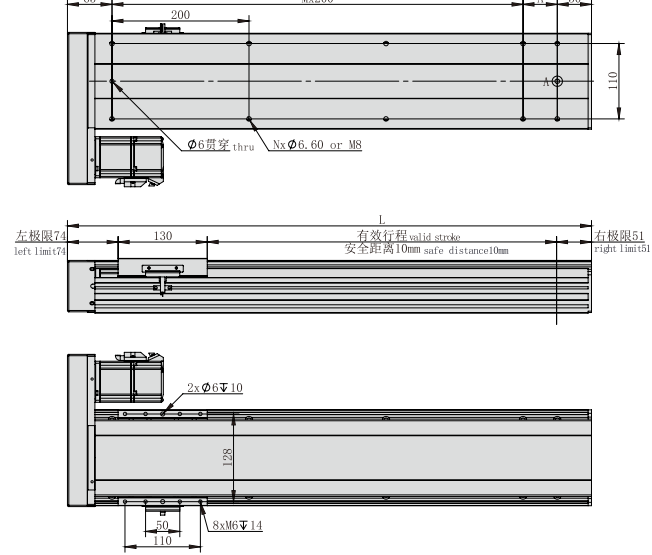
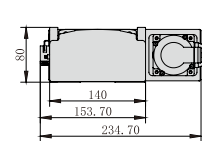
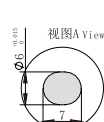
单位:Unit: mm

*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.

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	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.



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

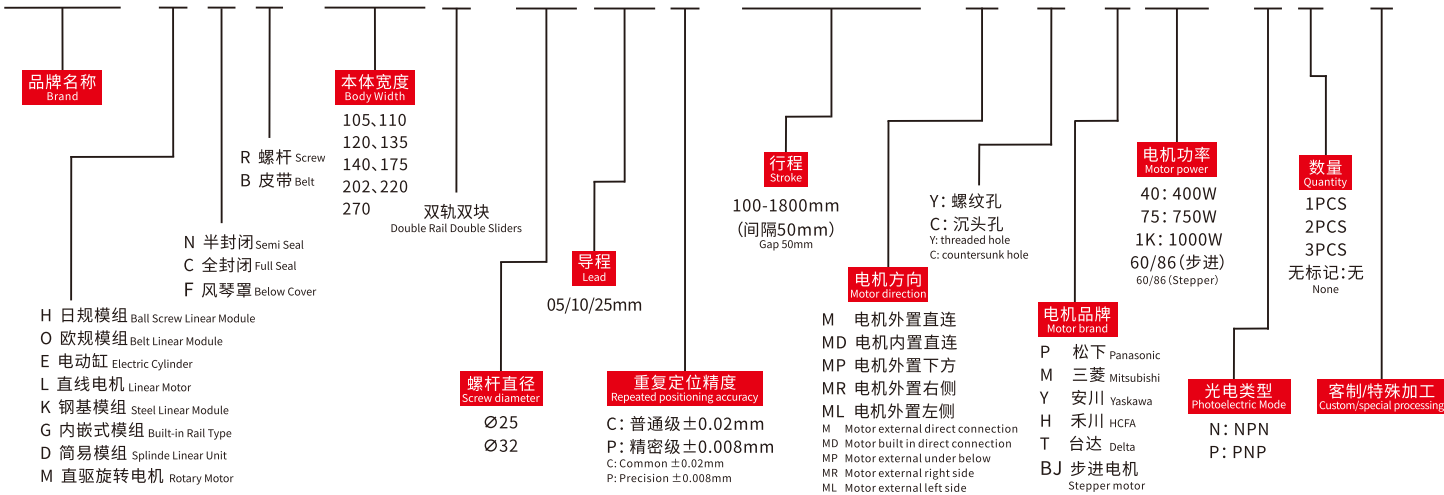
马达容量
Motor output 750W

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



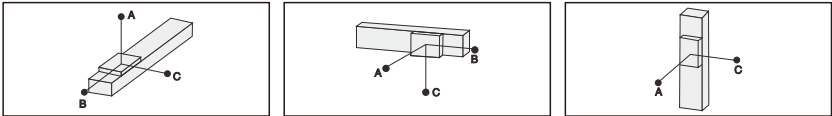
产品性能参数如下 Product performance parameters are as follows

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
	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)	70	55
	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		
部 品 Parts	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℃, 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

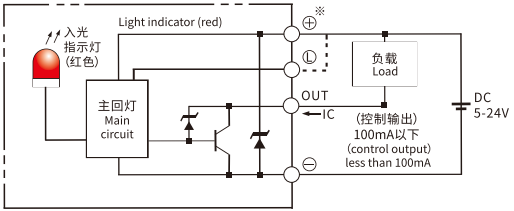


(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)			
水平安装 Horizontal installation				侧面安装 Side mounting				垂直安装 Vertical installation			
导程 5 Lead	A	B	C	导程 5 Lead	A	B	C	导程 5 Lead	A	C	
70kg	3235	349	408	75kg	377	322	2988	20kg	1368	1368	
90kg	2482	263	306	95kg	288	246	2333	30kg	911	911	
120kg	1861	187	218	120kg	218	187	1850	50kg	546	546	
导程 10 Lead	A	B	C	导程 10 Lead	A	B	C	导程 10 Lead	A	C	
65kg	1911	338	373	60kg	408	368	2092	15kg	1618	1618	
85kg	1445	248	276	80kg	296	266	1554	25kg	970	970	
120kg	1000	164	182	120kg	182	164	1002	40kg	607	607	
导程 25 Lead	A	B	C	导程 25 Lead	A	B	C	导程 25 Lead	A	C	
35kg	1666	547	538	30kg	633	644	1961	10kg	1922	1922	
55kg	1030	331	328	50kg	365	369	1143	14kg	1377	1377	
83kg	654	206	204	83kg	204	206	656	25kg	769	769	

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)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

感应器连接图<原点及端点> Sensor layout



HNR-E
HNB-E
HFR
HNR
HCR
HNB
HC
HNT
XYZ
参考资料 Reference data

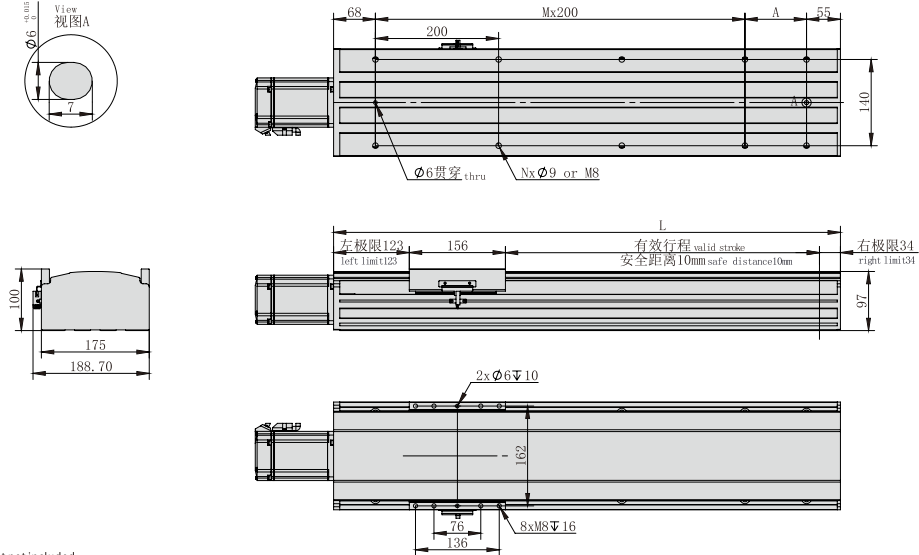


电机外置直连/电机内置直连

Motor external direct connection/Motor built in direct connection

M 电机外置直连 Motor external direct connection

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	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	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	

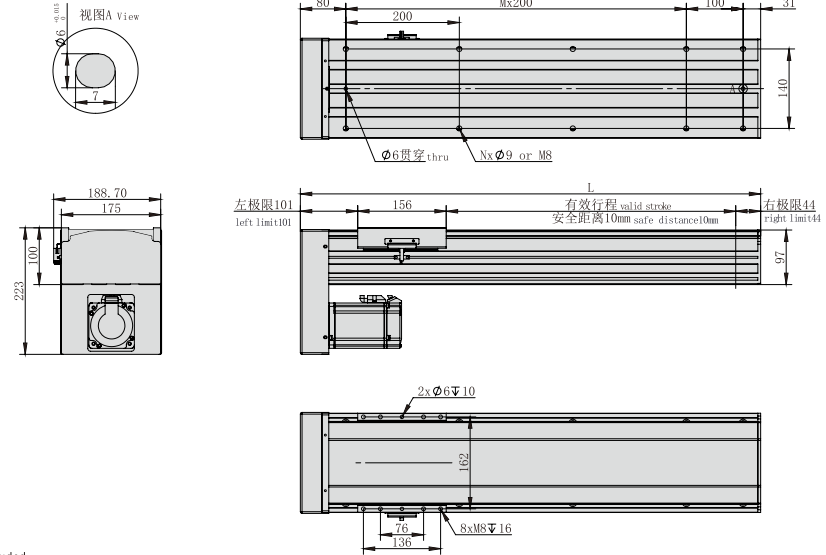
如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

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

单位:Unit: mm



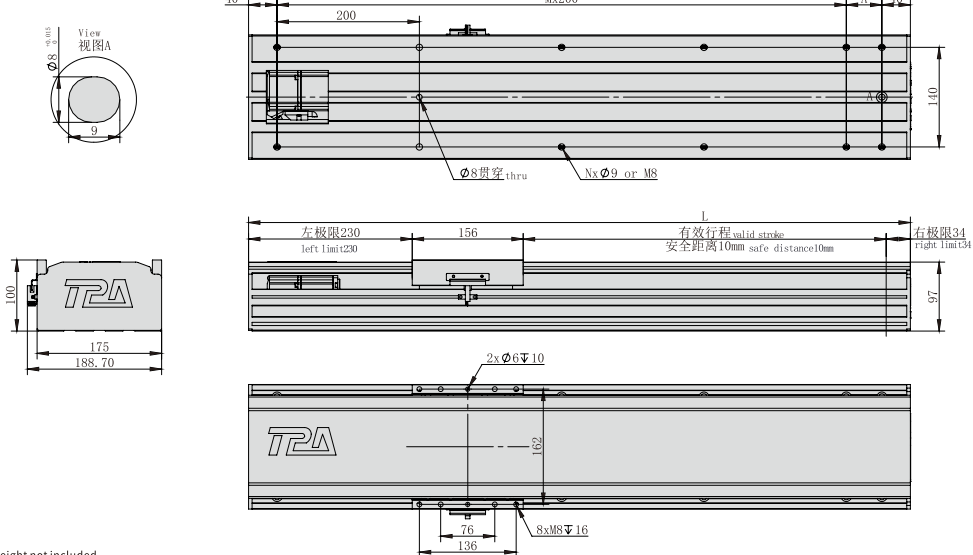
*不含电机重量。*Motor weight not included.

有效行程	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

单位:Unit: mm



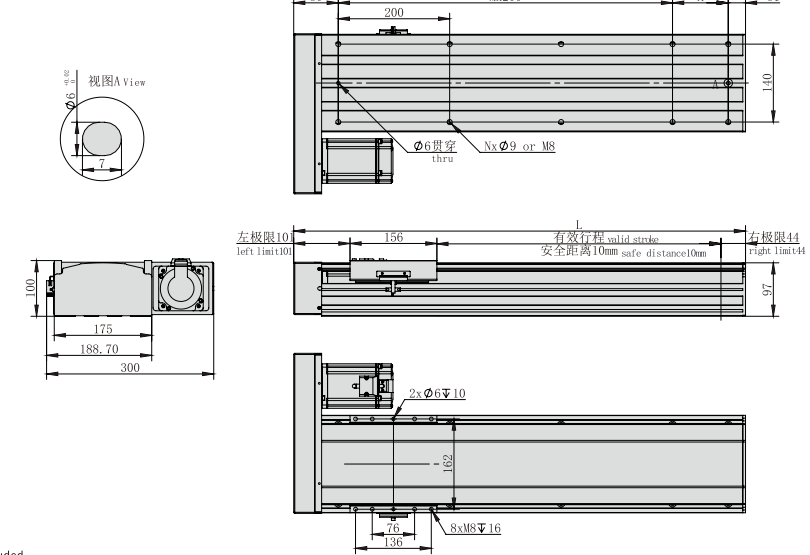
*不含电机重量。*Motor weight not included.

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	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

单位:Unit: mm



*不含电机重量。*Motor weight not included.

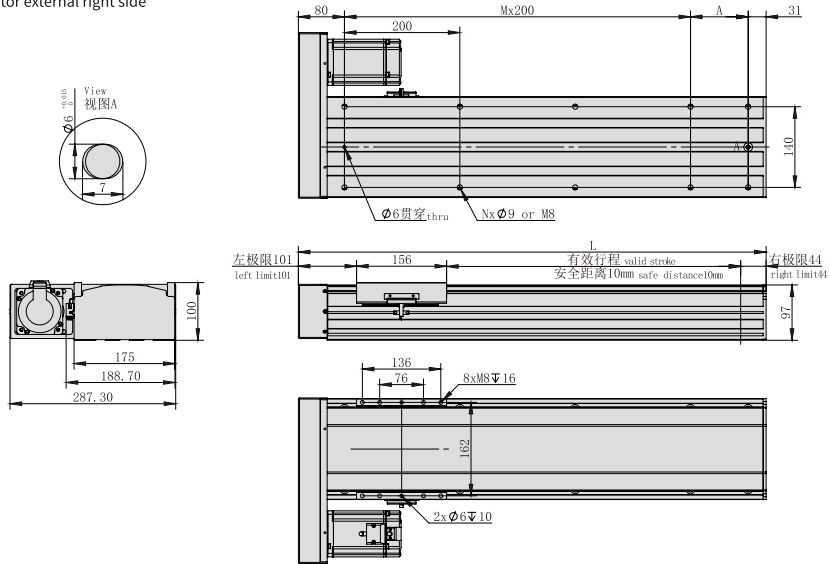
有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	411	461	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	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.



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	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-E
HNB-E
HFR
HNR
HCR
HNB
HCB
HNT
XYZ
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 1800mm

最高速度
Max speed 1250mm/s

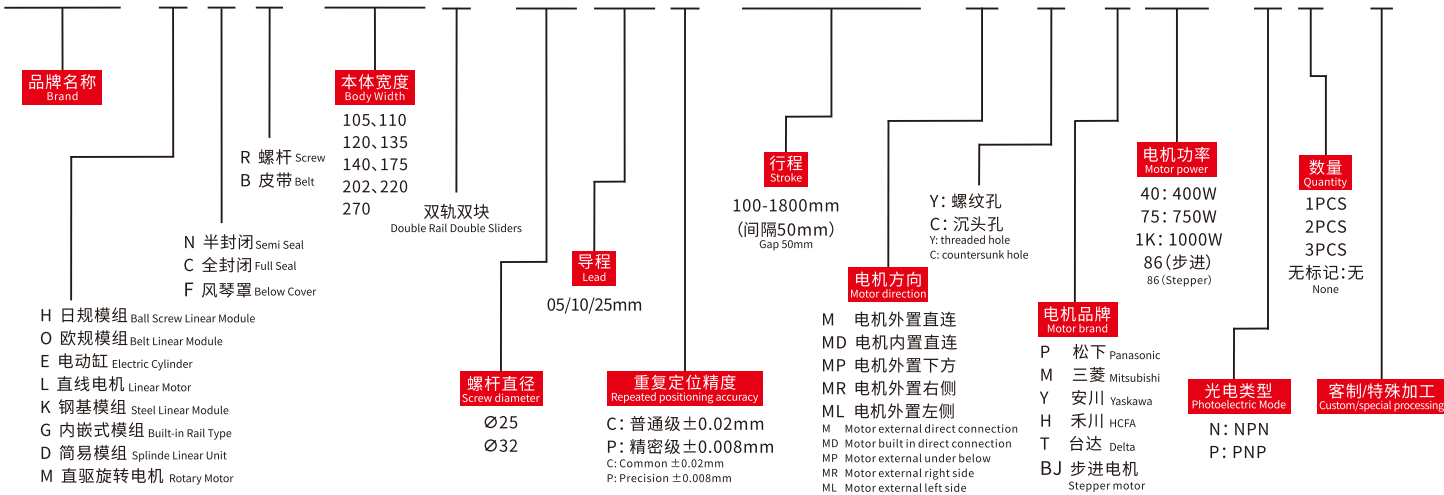
马达容量
Motor output 750W

滚珠螺杆
Ball screw Ø25mm

直线滑轨
Linear guide 25X22-2支

型号表达方式 Ordering method

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



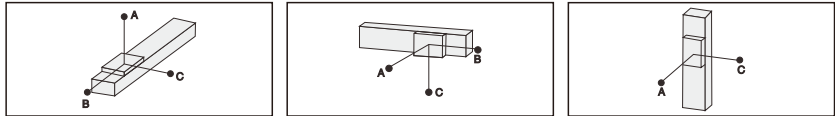
产品性能参数如下 Product performance parameters are as follows

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
	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	160
		垂直使用 (kg) Vertical (kg)	70	55
	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		
部 品 Parts	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℃, 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

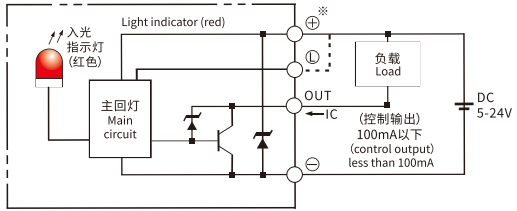


(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)			
水平安装 Horizontal installation				侧面安装 Side mounting				垂直安装 Vertical installation			
导程 5 Lead	A	B	C	导程 5 Lead	A	B	C	导程 5 Lead	A	B	C
40kg	1000	400	580	40kg	380	380	1000	10kg	1200	1200	
80kg	780	230	350	80kg	190	250	740	20kg	710	710	
100kg	680	185	230	100kg	140	190	620	30kg	560	560	
导程 10 Lead	A	B	C	导程 10 Lead	A	B	C	导程 10 Lead	A	B	C
40kg	900	350	505	40kg	250	310	860	8kg	1000	1000	
80kg	710	200	300	80kg	130	170	620	18kg	600	600	
100kg	610	160	200	100kg	90	130	500	27kg	400	400	
导程 25 Lead	A	B	C	导程 25 Lead	A	B	C	导程 25 Lead	A	B	C
20kg	1100	600	500	20kg	350	350	700	5kg	1100	1100	
40kg	790	370	300	40kg	200	205	470	10kg	800	800	
60kg	670	250	190	60kg	120	130	370	-	-	-	

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)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

感应器连接图<原点及端点> Sensor layout



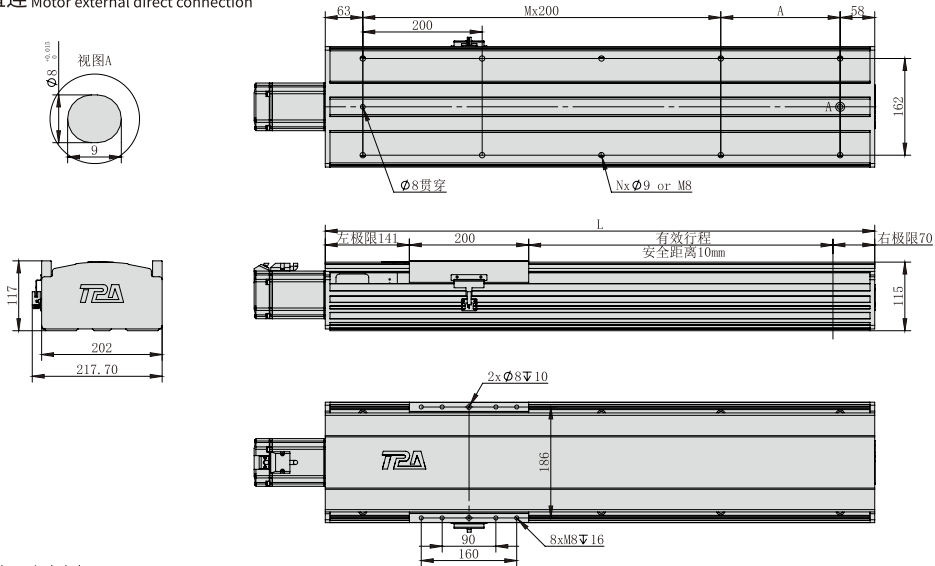
HNR-E
HNB-E
HFR
HNR
HCR
HNB
HCB
HNT
XYZ
参考资料 Reference data



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



单位:Unit: mm

*不含电机重量。*Motor weight not included.

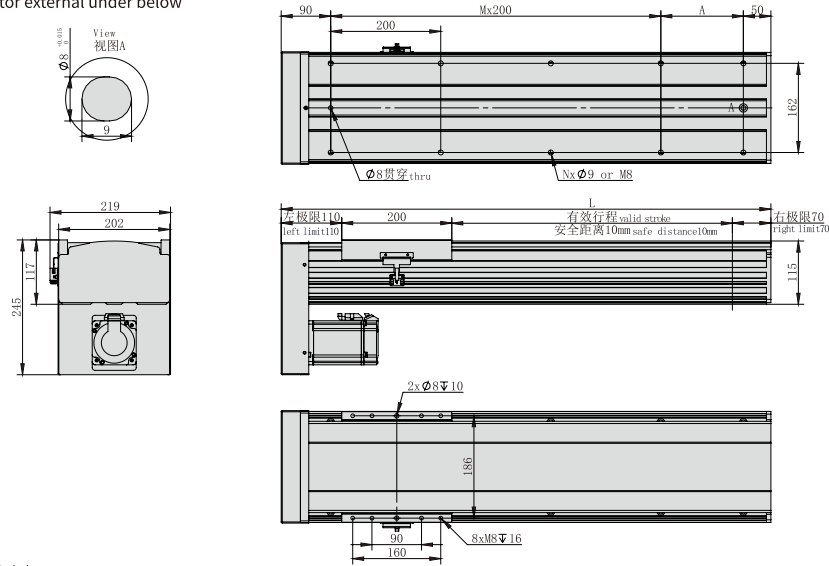
有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	521	571	621	671	721	771	821	871	921	971	1021	1071	1121	1171	1221	1271	1321	1371	1421	1471	1521	1571	1621	1671	1721	1771	1821	1871	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



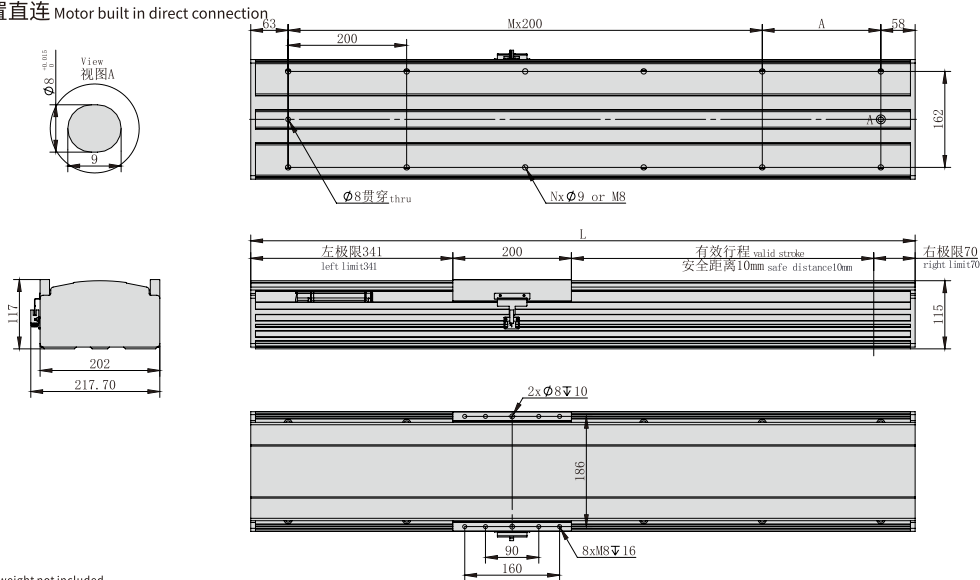
单位:Unit: mm

*不含电机重量。*Motor weight not included.

有效行程	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	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



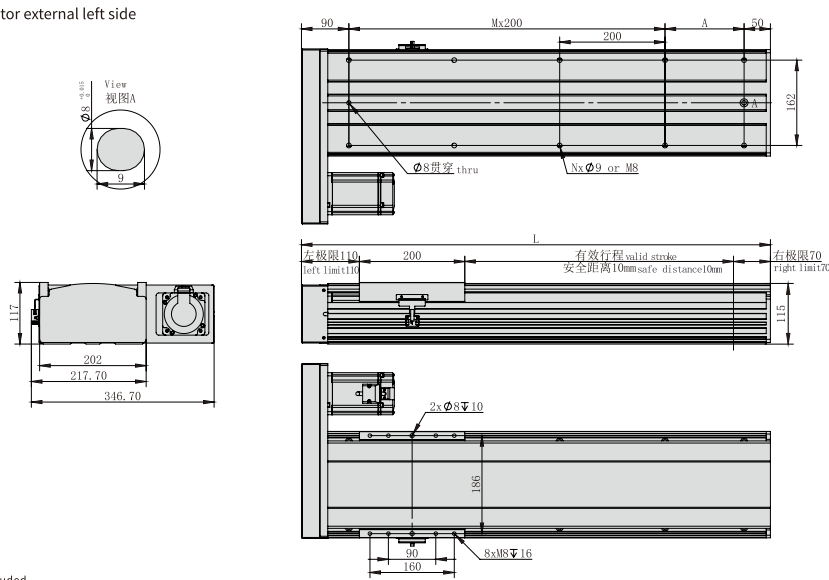
单位:Unit: mm

*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	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	26	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	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



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	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	16	16	16	16	18	18	18	18	20	20	20	22	22	22	22	24	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.

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.

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 2400mm

最高速度
Max speed 1600mm/s

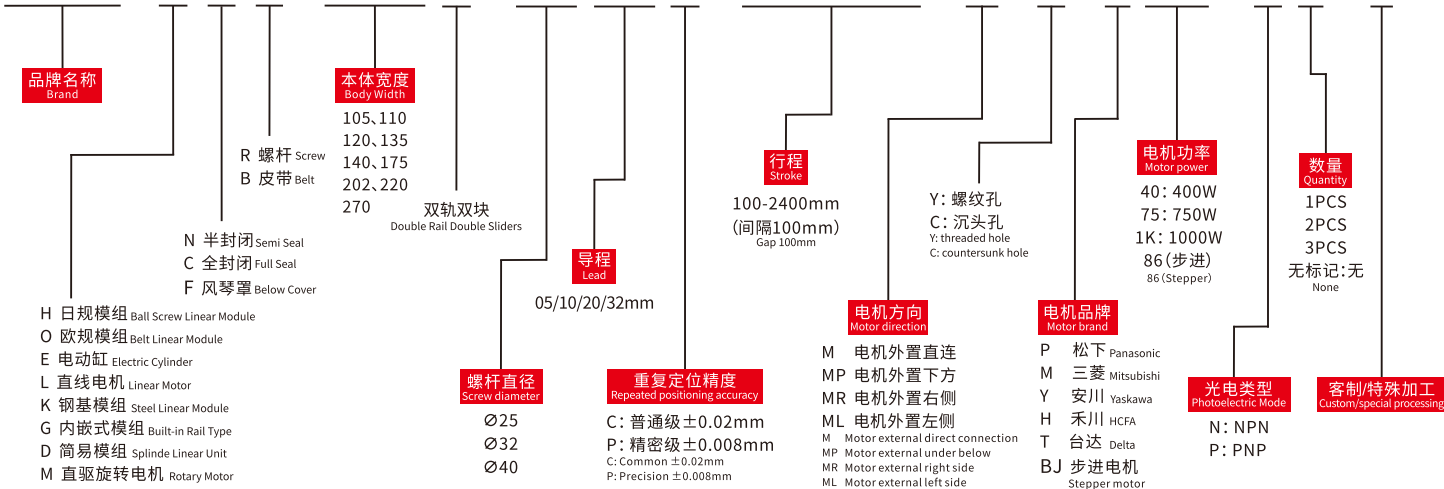
马达容量
Motor output 1000W

滚珠螺杆
Ball screw Ø32mm

直线滑轨
Linear guide 25X22-2支

型号表达方式 Ordering method

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



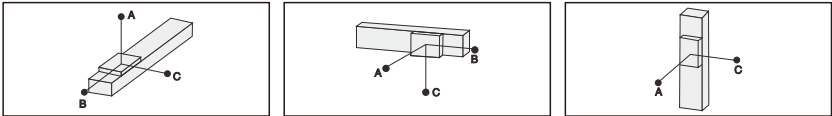
产品性能参数如下 Product performance parameters are as follows

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	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
部 品 Parts	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100 mm 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℃, 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

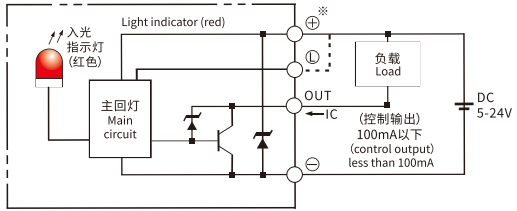


(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)			
水平安装 Horizontal installation				侧面安装 Side mounting				垂直安装 Vertical installation			
导程 5 Lead	A	B	C	导程 5 Lead	A	B	C	导程 5 Lead	A	B	C
100kg	5000	633	557	110kg	500	569	4500	30kg	2355	2355	
125kg	3880	491	431	130kg	412	469	3711	40kg	1768	1768	
150kg	3357	396	347	150kg	347	396	3357	55kg	1288	1288	
导程 10 Lead	A	B	C	导程 10 Lead	A	B	C	导程 10 Lead	A	B	C
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	A	B	C	导程 20 Lead	A	B	C	导程 20 Lead	A	B	C
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	A	B	C	导程 32 Lead	A	B	C	导程 32 Lead	A	B	C
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	-	-	-	

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)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

感应器连接图<原点及端点> Sensor layout



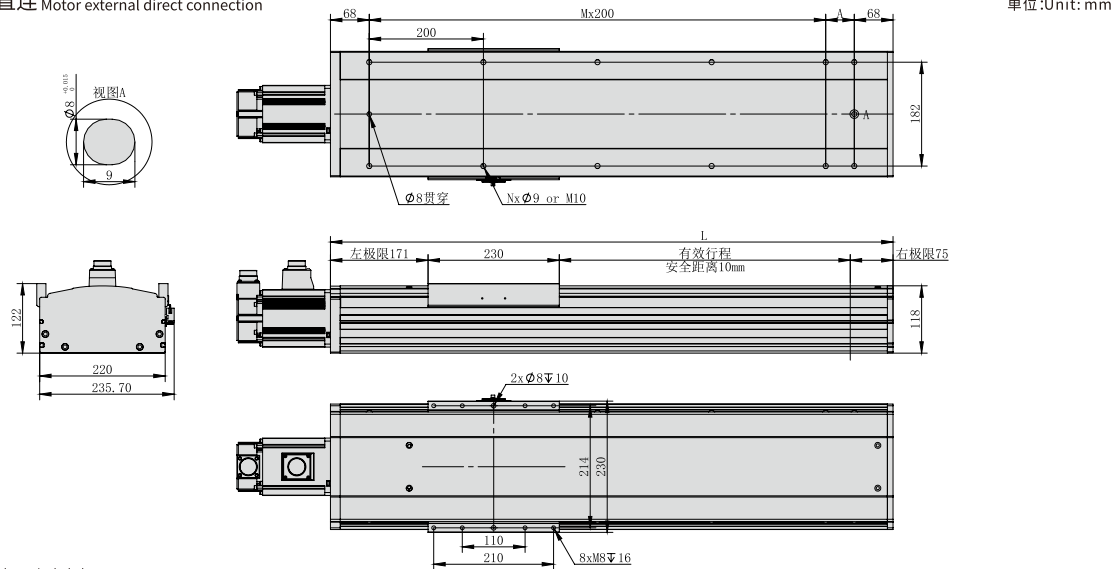
HNR-E
HNB-E
HFR
HNR
HCR
HNB
HC
HNT
XYZ
参考资料 Reference data



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.

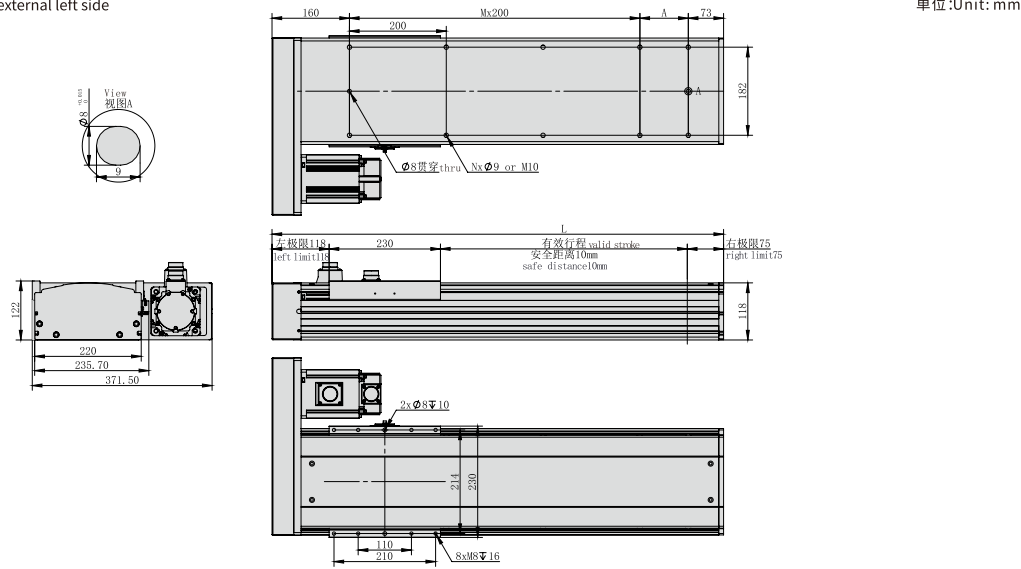
有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	
L	586	636	686	736	786	836	886	936	986	1036	1086	1136	1186	1236	1286	1336	1386	1436	1486	1536	1586	1636	1686	1736	1786	1836	1886	1936	1986	2036	2086	2136	2186	2236	2286	2336	2386	2436	2486	2536	2586	2636	2686	2736	2786	2836	2886	
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	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	24	26	26	26	26	28	28	28	28	30	30	30	30
M	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	10	11	11	11	11	12	12	12	13	13	13	13		
KG	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	75.5	77	78.5	80	81.5	83	84.5	86	87.5	89	90.5	92	93.5	

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



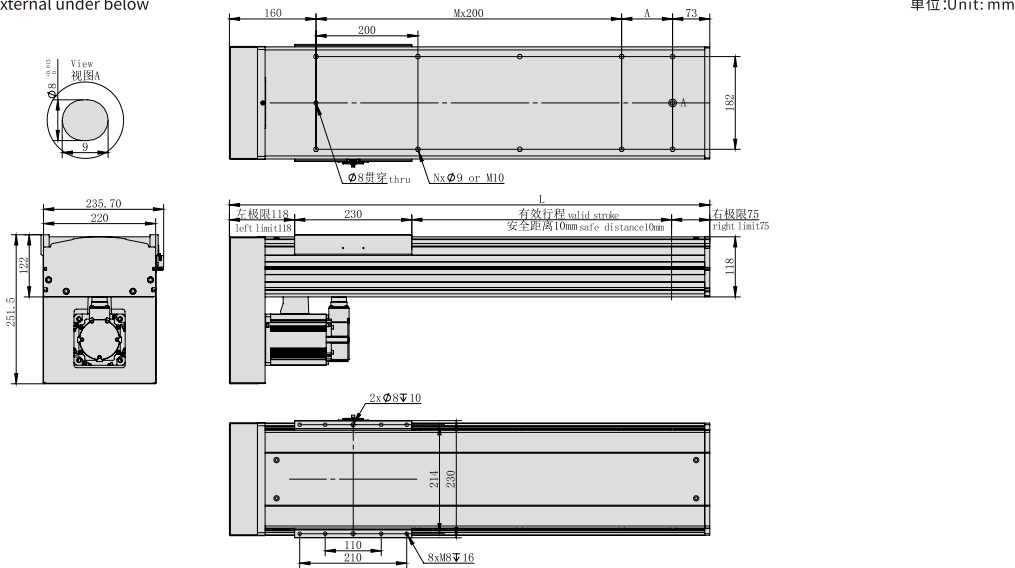
单位:Unit: mm

*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	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400
L	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	1333	1383	1433	1483	1533	1583	1633	1683	1733	1783	1833	1883	1933	1983	2033	2083	2132	2183	2233	2283	2333	2383	2433	2483	2532	2583	2633	2683	2733	2783	2833
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	50	100	150	200	50	100	150	200	50	100	150	200
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	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	30		
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	10	10	10	11	11	11	11	12	12	12	13	
KG	25	26.5	28	29.5	31	32.5	34	35.5	37	38.5	40	41.5	43	44.5	46	47.5	49	50.5	52	53.5	55	56.5	58	59.5	61	62.5	64	65.5	67	68.5	70	71.5	73	74.5	76	77.5	79	80.5	82	83.5	85	86.5	88	89.5	91	92.5	94

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



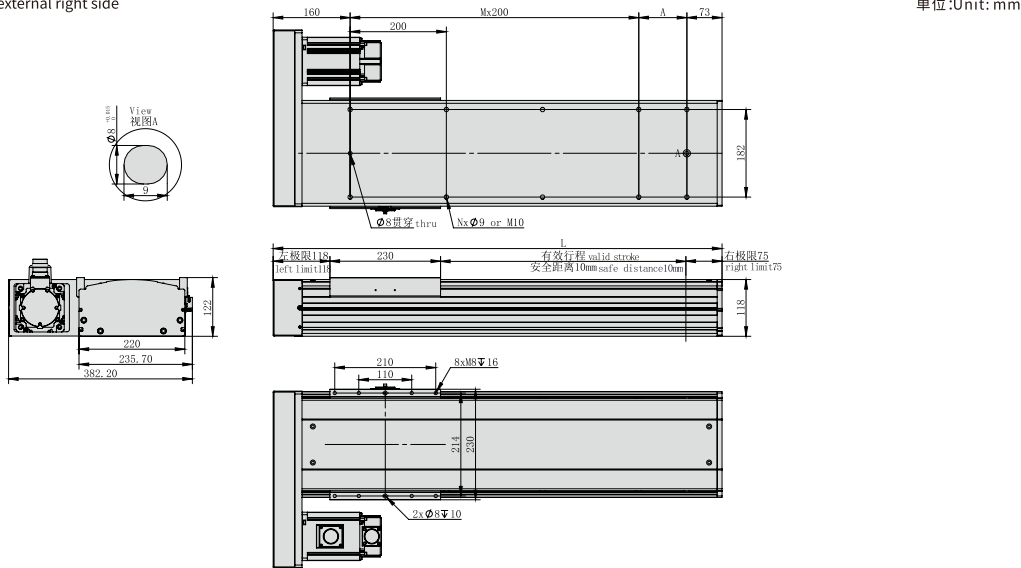
单位:Unit: mm

*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	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	
L	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	1333	1383	1433	1483	1533	1583	1633	1683	1733	1783	1833	1883	1933	1983	2033	2083	2133	2183	2233	2283	2333	2383	2433	2483	2533	2583	2633	2683	2733	2783	2833	
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	50	100	150	200	50	100	150	200	50	100	150	200	
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	24	24	24	26	26	26	26	28	28	28	30		
M	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	13
KG	25	26.5	28	29.5	31	32.5	34	35.5	37	38.5	40	41.5	43	44.5	46	47.5	49	50.5	52	53.5	55	56.5	58	59.5	61	62.5	64	65.5	67	68.5	70	71.5	73	74.5	76	77.5	79	80.5	82	83.5	85	86.5	88	89.5	91	92.5	94	

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	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400
L	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	1333	1383	1433	1483	1533	1583	1633	1683	1733	1783	1833	1883	1933	1983	2033	2083	2133	2183	2233	2283	2333	2383	2433	2483	2533	2583	2633	2683	2733	2783	2833
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	50	100	150	200	50	100	150	200	50	100	150	200
N	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	16	16	16	16	18	18	18	20	20	20	20	20	22	22	22	24	24	24	24	26	26	26	26	28	28	28	30			
M	1	1	2	2	2	2	3	3	3	4	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	11	11	12	12	12	13	
KG	25	26.5	28	29.5	31	32.5	34	35.5	37	38.5	40	41.5	43	44.5	46	47.5	49	50.5	52	53.5	55	56.5	58	59.5	61	62.5	64	65.5	67	68.5	70	71.5	73	74.5	76	77.5	79	80.5	82	83.5	85	86.5	88	89.5	91	92.5	94

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.



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

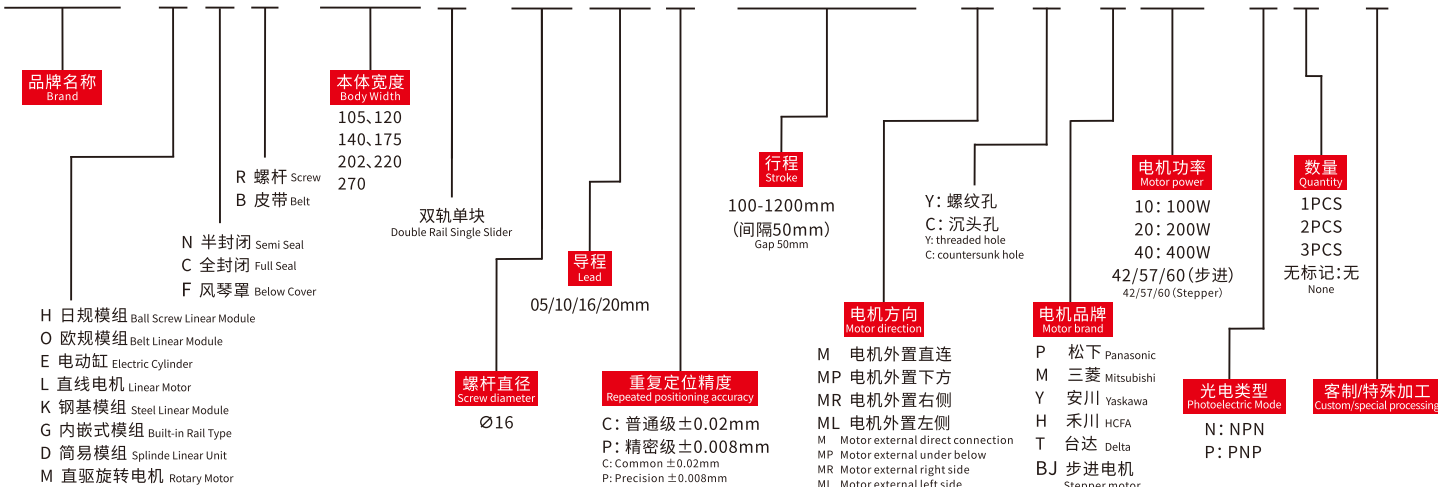
马达容量
Motor output 200W

滚珠螺杆
Ball screw Ø16mm

直线滑轨
Linear guide 15X18-2支

型号表达方式 Ordering method

TPA-HCR-105D-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)		±0.01			
	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				
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℃,85%RH(无凝结) No condensation			

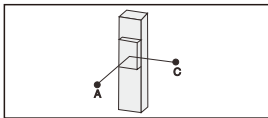
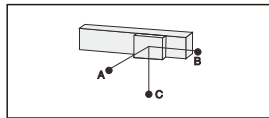
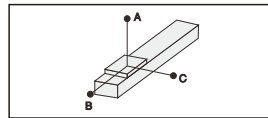
注1: 使用非上述功率电机时请依据实际参数推算。

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		A	B	C
导程 5 Lead	30kg	21	32	262
	50kg	1	2	48
	60kg	-	-	-
导程 10 Lead	20kg	93	162	260
	25kg	61	80	217
	30kg	32	45	175
导程 16 Lead	10kg	155	242	425
	15kg	89	162	313
	20kg	40	88	199
导程 20 Lead	5kg	385	407	629
	10kg	110	179	381
	20kg	63	98	230

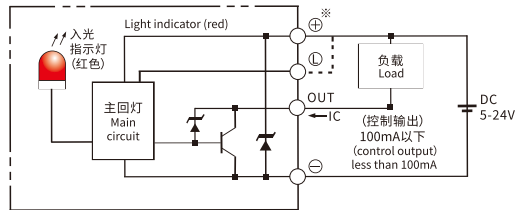
(单位Unit:mm)				
侧面安装 Side mounting		A	B	C
导程 5 Lead	10kg	602	187	153
	20kg	380	92	75
	30kg	9	-	-
导程 10 Lead	10kg	545	122	109
	20kg	210	33	21
	30kg	-	-	-
导程 16 Lead	5kg	477	140	123
	10kg	269	78	69
	15kg	126	54	37
导程 20 Lead	3kg	462	228	179
	7kg	289	94	76
	10kg	211	55	39

(单位Unit:mm)			
垂直安装 Vertical installation	A	B	C
导程 5 Lead	10kg	93	106
	13kg	42	71
	15kg	23	41
导程 10 Lead	3kg	333	368
	6kg	154	177
	9kg	100	118
导程 16 Lead	3kg	413	262
	5kg	214	242
	8kg	60	85
导程 20 Lead	1kg	546	570
	3kg	375	391
	5kg	123	150

搭配伺服马达一览表 Suitable motor brand

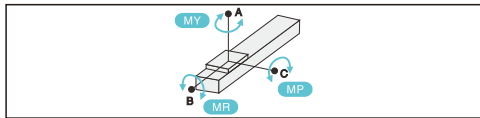
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal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

感应器连接图<原点及端点> Sensor layout



HNR
HCR
HNB
HC
HCB
HNT
XYZ
参考资料 Reference data

静态容许负载惯量 Static loading moment



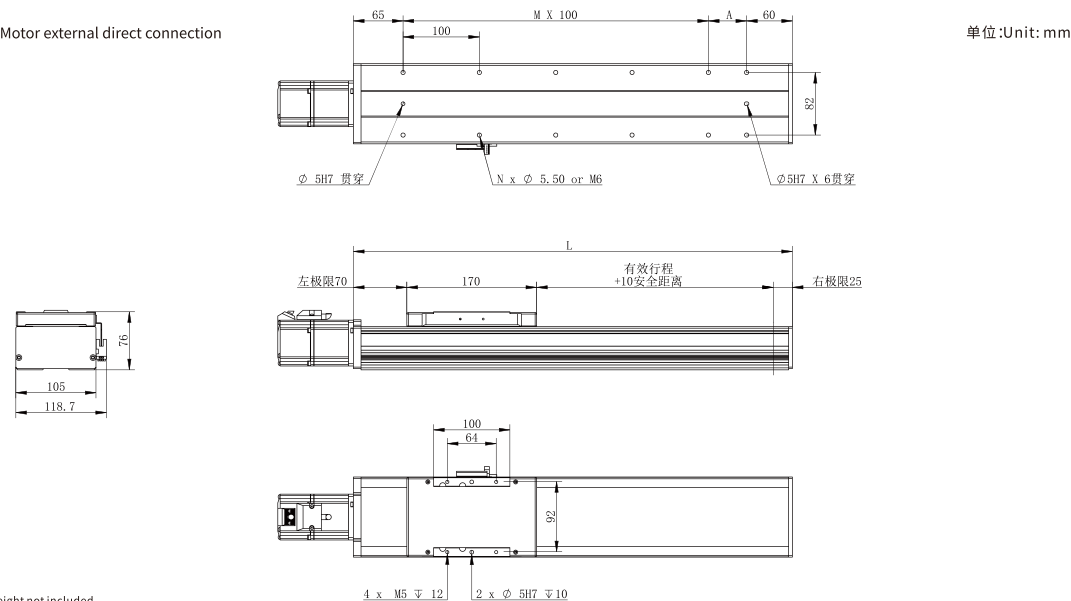
(单位Unit:N.m)	
MY	150
MP	150
MR	130

*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.



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

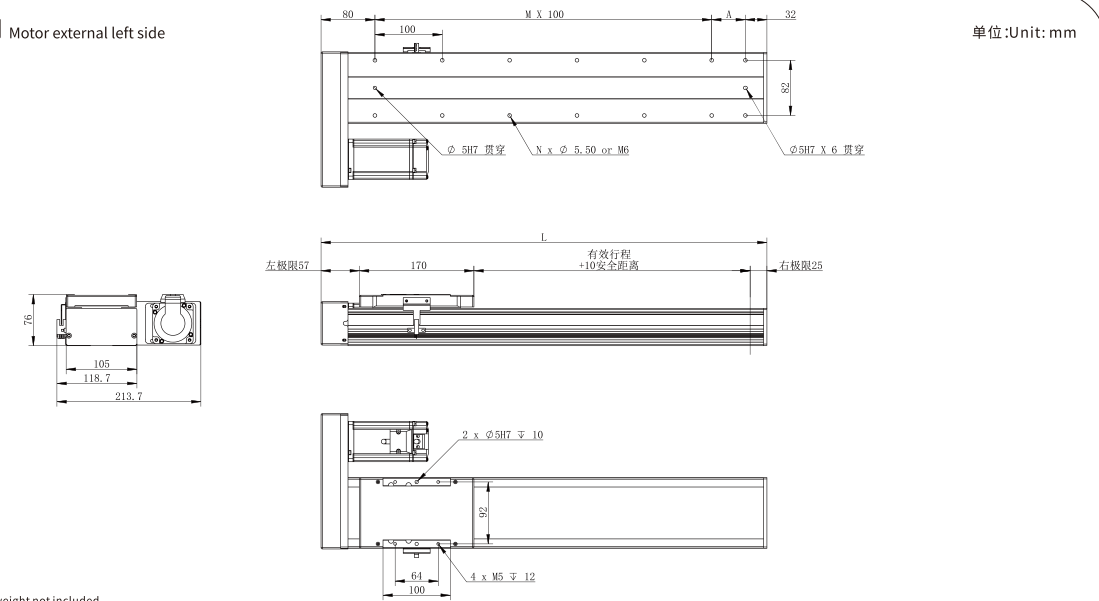
*不含电机重量。*Motor weight not included.

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	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
N	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



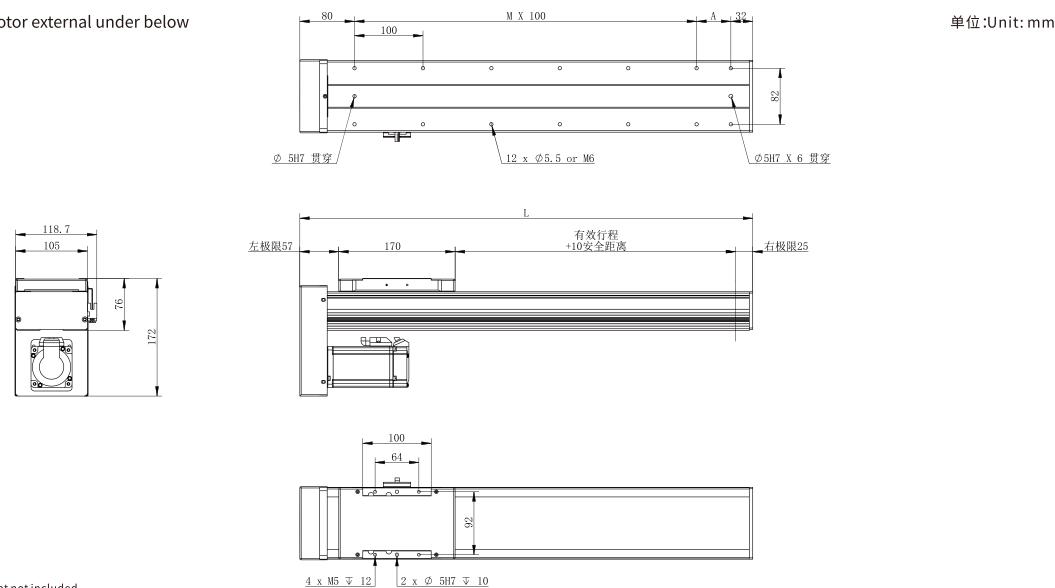
单位:Unit: mm

*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	362	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362	1412	1462
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
N	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



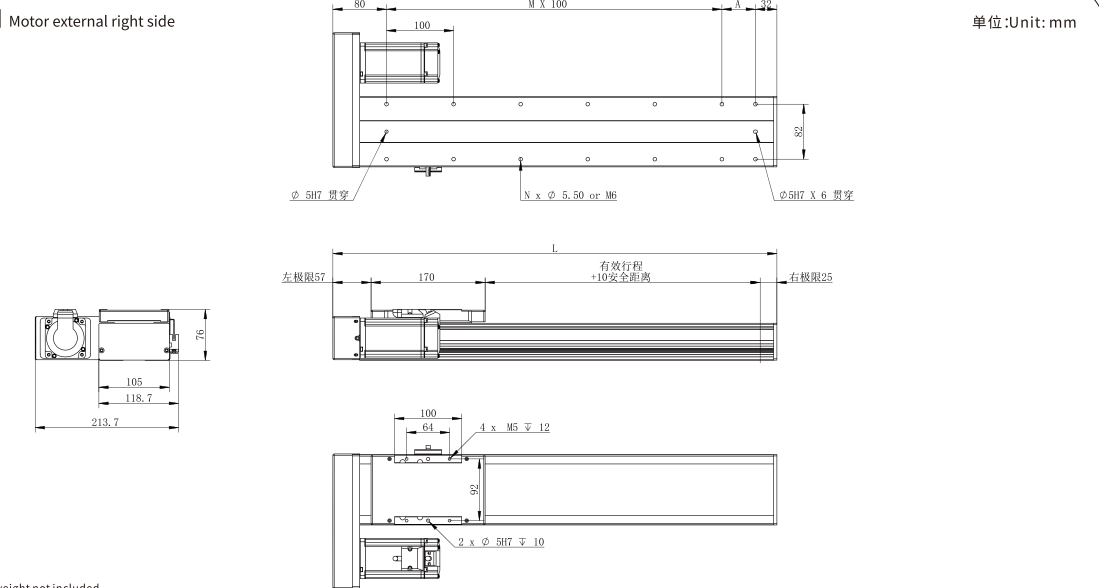
单位:Unit: mm

*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	362	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362	1412	1462
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
N	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	362	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362	1412	1462
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
N	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.



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

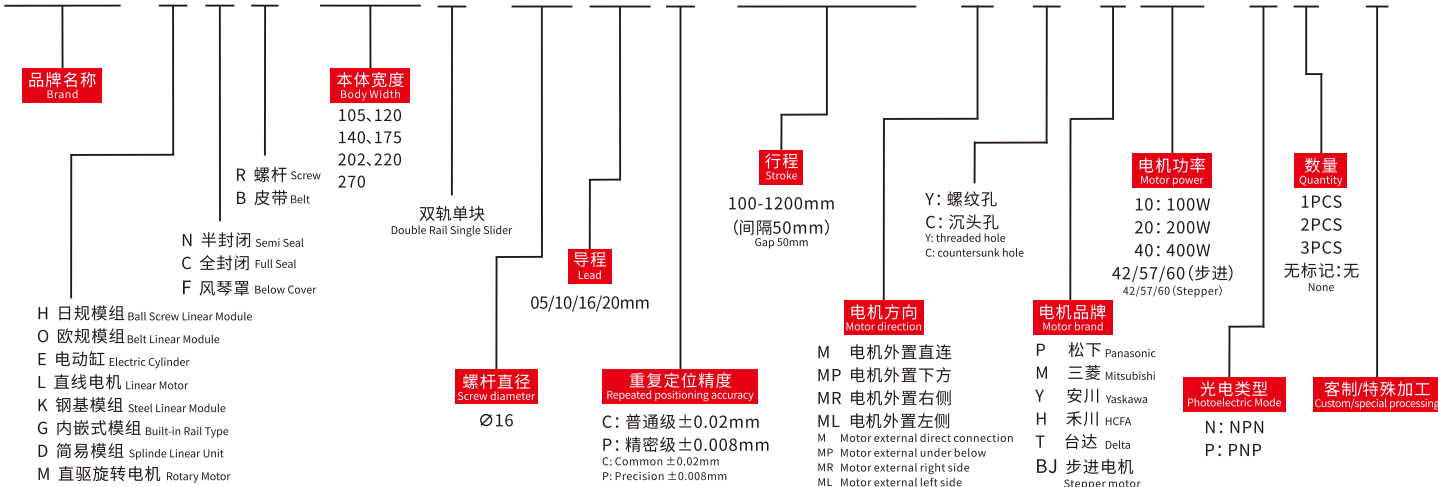
马达容量
Motor output 200W

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-HCR-120D-1610C-L1200-M-Y-P20-N3-F



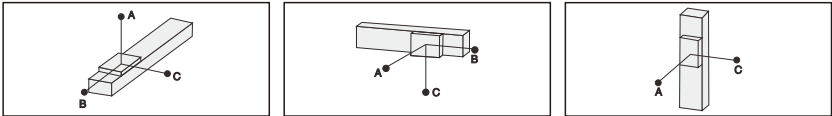
产品性能参数如下 Product performance parameters are as follows

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)		±0.01			
	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℃, 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

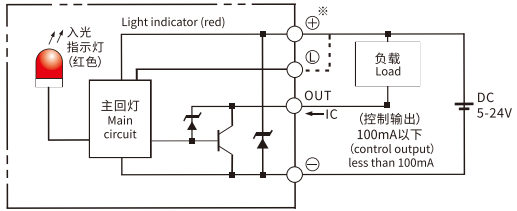


(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)					
水平安装 Horizontal installation		A	B	C	侧面安装 Side mounting		A	B	C	垂直安装 Vertical installation		A	C
导程 5 Lead	30kg	882	65	78	导程 5 Lead	25kg	100	84	1102	导程 5 Lead	5kg	544	544
	40kg	606	43	51		35kg	63	52	725		8kg	341	341
	50kg	437	29	35		50kg	35	29	433		12kg	227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

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

感应器连接图<原点及端点> Sensor layout



HNR
HCR
HNB
HC
HNT
XYZ
参考资料 Reference data

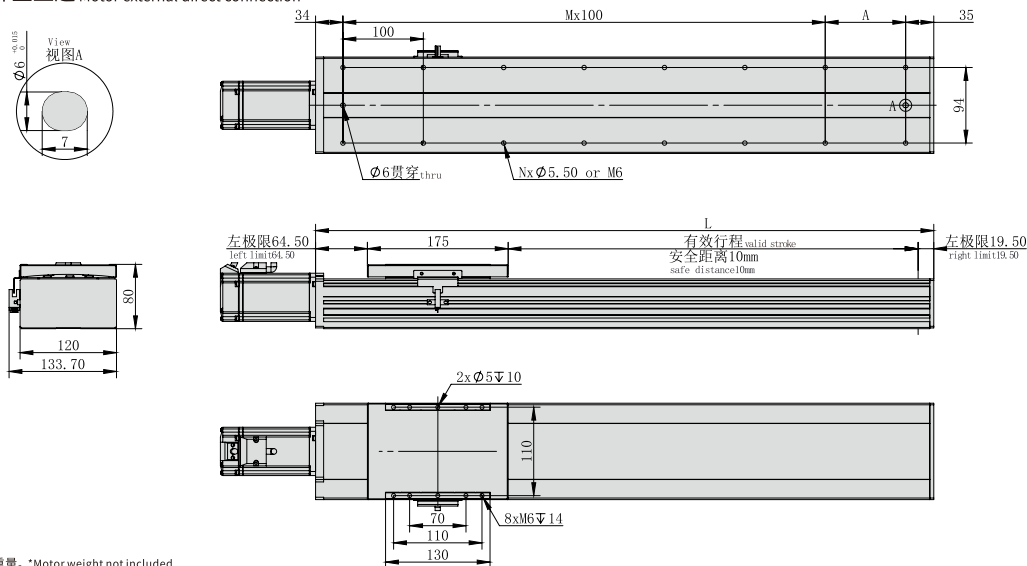


电机外置直连/电机外置下方

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	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	6.5	7.5	8.5	9.5	10.5	11.5	12.5	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

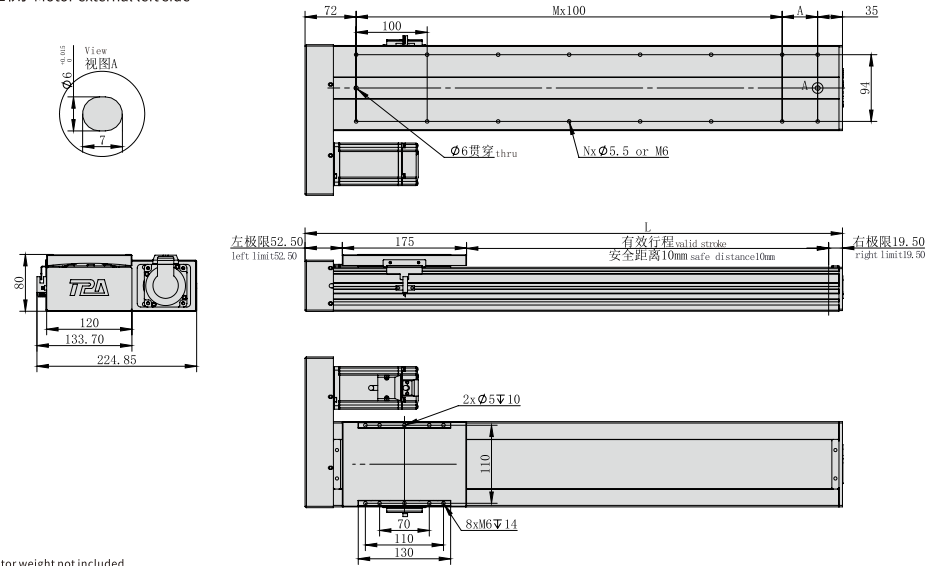
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

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



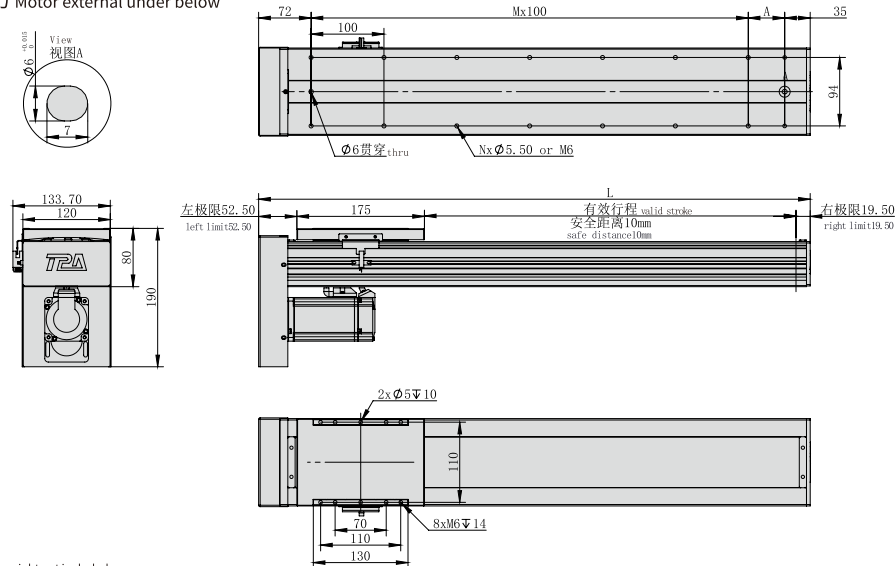
*不含电机重量。*Motor weight not included.

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	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	6.2	7.2	8.2	9.2	10.2	11.2	12.2	13.2	14.2	15.2	16.2	17.2	18.2	19.2	20.2	21.2	22.2	23.2	24.2	25.2	26.2	27.2	28.2

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.

MP 电机外置下方 Motor external under below

单位:Unit: mm



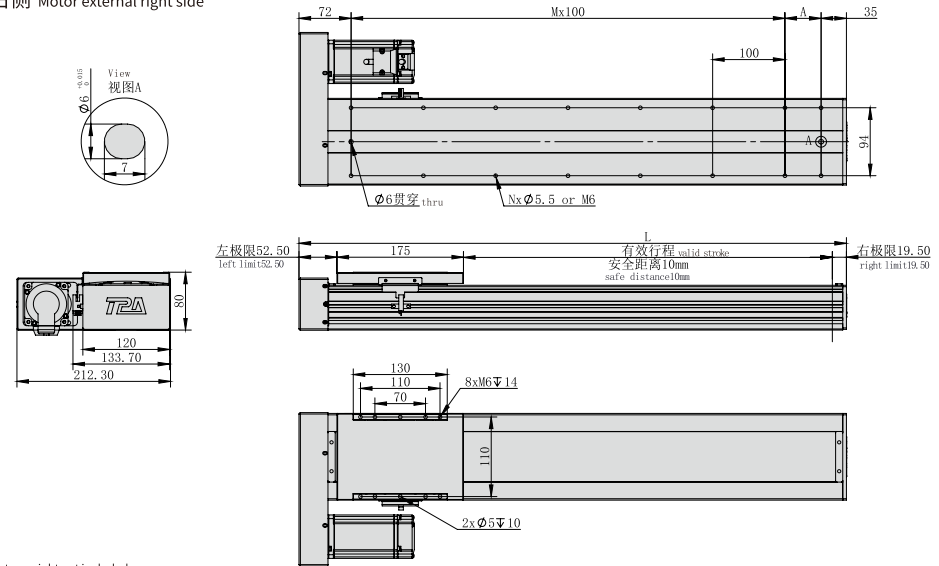
*不含电机重量。*Motor weight not included.

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	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	6.2	7.2	8.2	9.2	10.2	11.2	12.2	13.2	14.2	15.2	16.2	17.2	18.2	19.2	20.2	21.2	22.2	23.2	24.2	25.2	26.2	27.2	28.2

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.

MR 电机外置右侧 Motor external right side

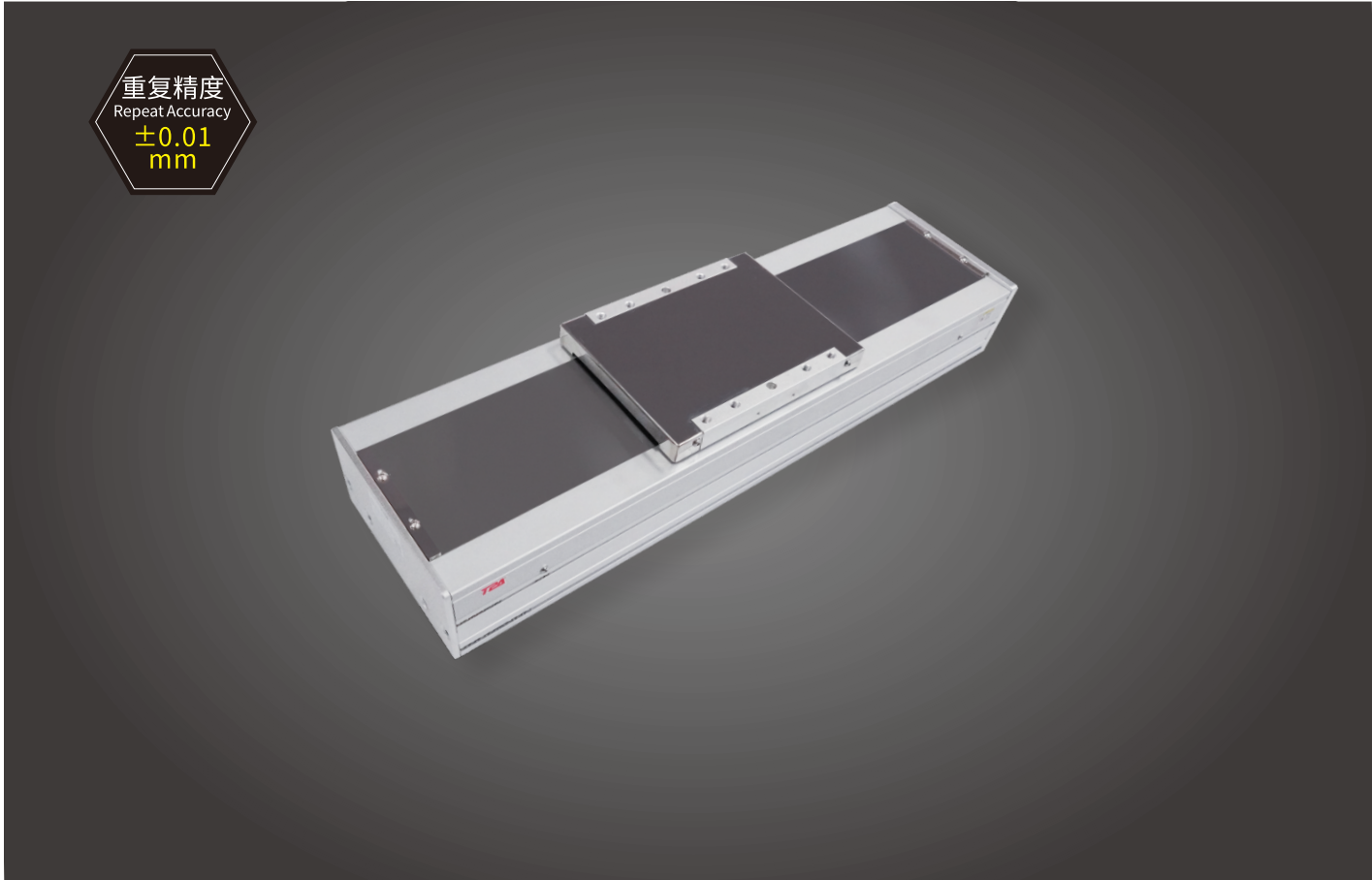
单位:Unit: mm



*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	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	6.2	7.2	8.2	9.2	10.2	11.2	12.2	13.2	14.2	15.2	16.2	17.2	18.2	19.2	20.2	21.2	22.2	23.2	24.2	25.2	26.2	27.2	28.2

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.



重复精度
Repeat Accuracy
 ± 0.01
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 1400mm

最高速度
Max speed 1000mm/s

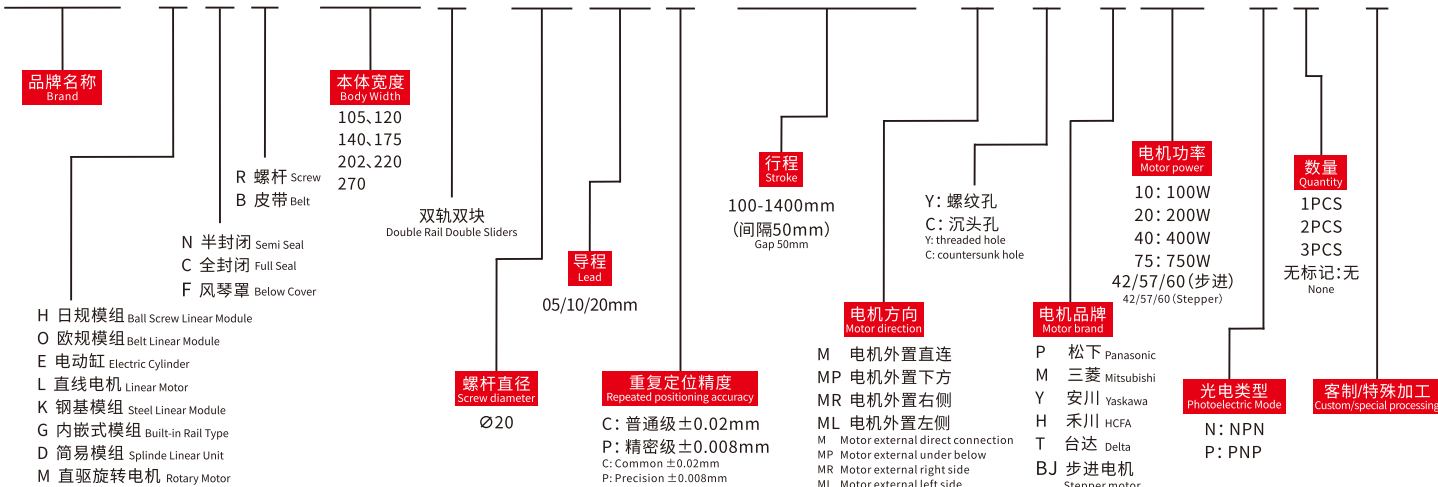
马达容量
Motor output 400W

滚珠螺杆
Ball screw $\varnothing 20$ mm

直线滑轨
Linear guide 15X12.5-2支

型号表达方式 Ordering method

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



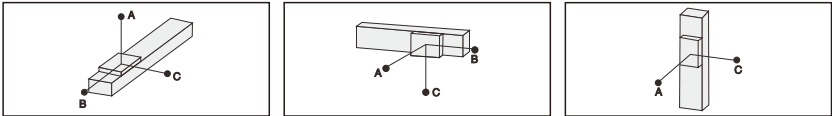
产品性能参数如下 Product performance parameters are as follows

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)	± 0.01		
	导程 (mm) 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)	110	88
		垂直使用 (kg) Vertical (kg)	50	40
部 品 Parts	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 $\varnothing$ (mm)	$\varnothing 20$		
	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

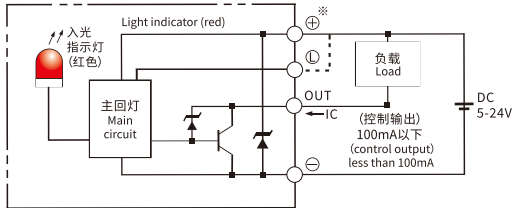


(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)			
水平安装 Horizontal installation				侧面安装 Side mounting				垂直安装 Vertical installation			
导程 5 Lead	A	B	C	导程 5 Lead	A	B	C	导程 5 Lead	A	B	C
60kg	2515	242	232	55kg	257	269	2883	15kg	1118	1118	
80kg	1811	172	164	75kg	178	186	2000	22kg	770	770	
95kg	1537	138	133	95kg	133	138	1537	27kg	626	626	
导程 10 Lead	A	B	C	导程 10 Lead	A	B	C	导程 10 Lead	A	B	C
30kg	2727	470	430	35kg	363	395	2368	10kg	1500	1500	
50kg	1577	266	242	55kg	218	238	1445	14kg	1072	1072	
75kg	1004	164	150	75kg	150	164	1004	18kg	833	833	
导程 20 Lead	A	B	C	导程 20 Lead	A	B	C	导程 20 Lead	A	B	C
10kg	2304	1222	1028	12kg	854	1019	2552	4kg	2980	2980	
22kg	1443	540	451	20kg	500	596	1588	7kg	1700	1700	
35kg	1005	324	271	35kg	271	324	1005	-	-	-	

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)	400	220	HG-KN43J-S100	MR-JE-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMF042L1U2M	MBDLN25SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECM-B3M-C20604RS1	ASD-B3-0421-L

感应器连接图<原点及端点> Sensor layout

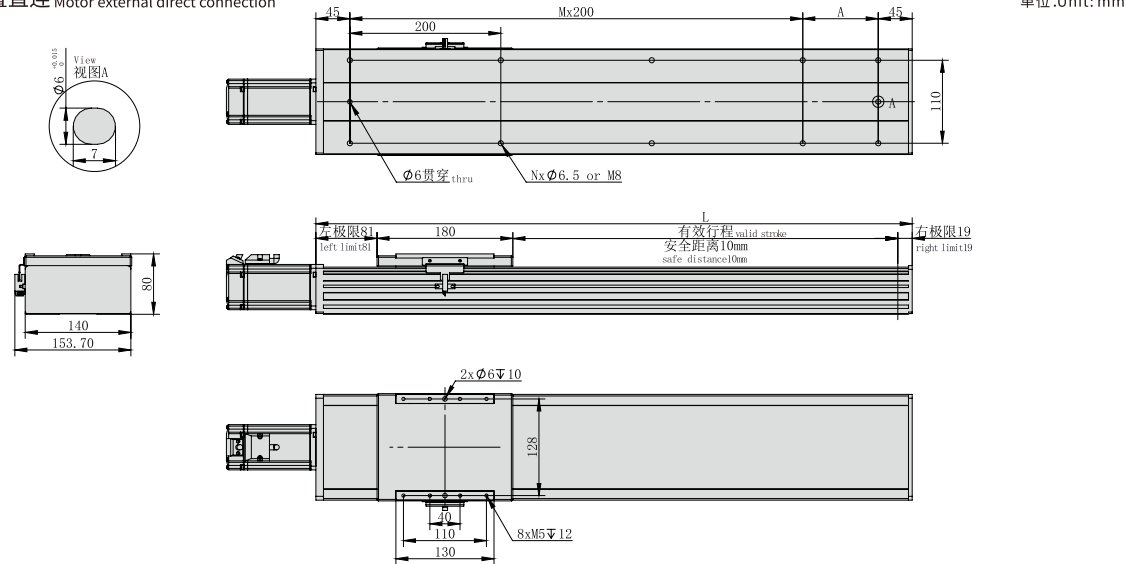


HNR
HCR
HNB
HC
HCB
HNT
XYZ
参考资料 Reference data



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



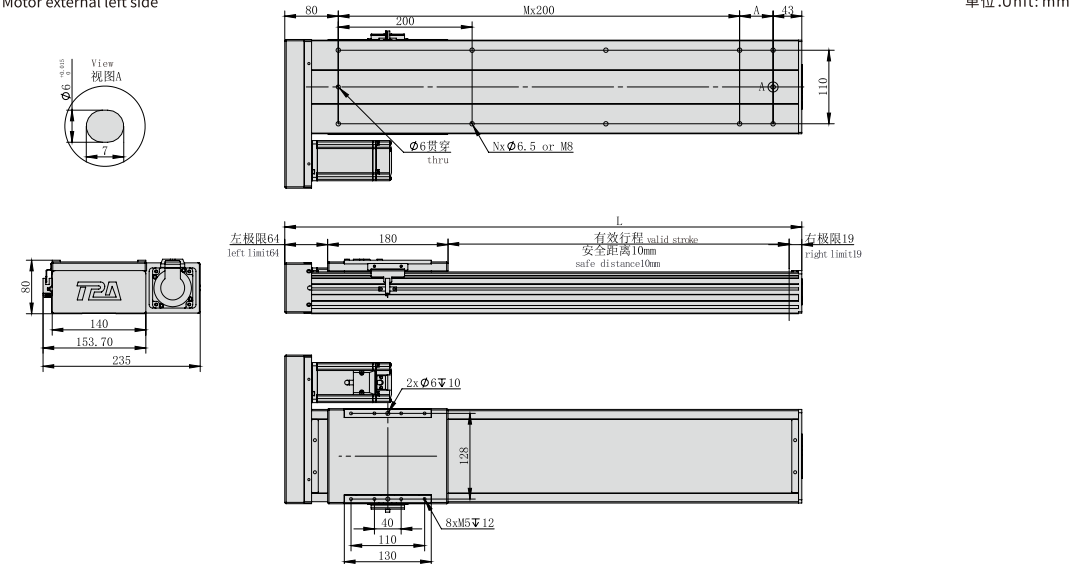
*不含电机重量。*Motor weight not included.

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	1250	1300	1350	1400
L	390	440	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
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	7.8	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	17.3	17.8	18.3	18.8	19.3	19.8	20.3	20.8

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

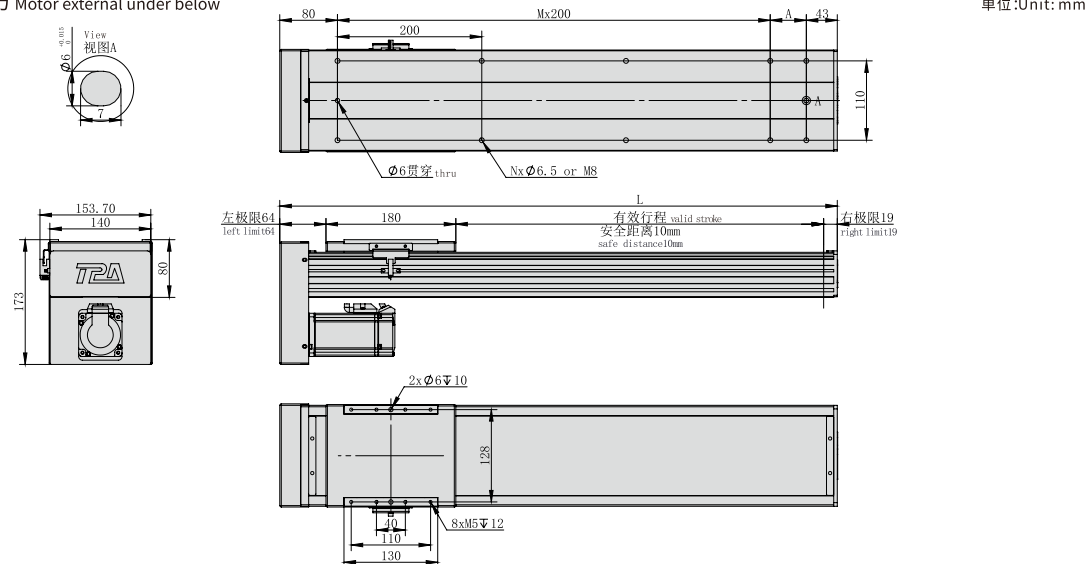


*不含电机重量。*Motor weight not included.

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	1250	1300	1350	1400
L	373	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
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	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	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	20.7	21.2

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.

MP 电机外置下方 Motor external under below

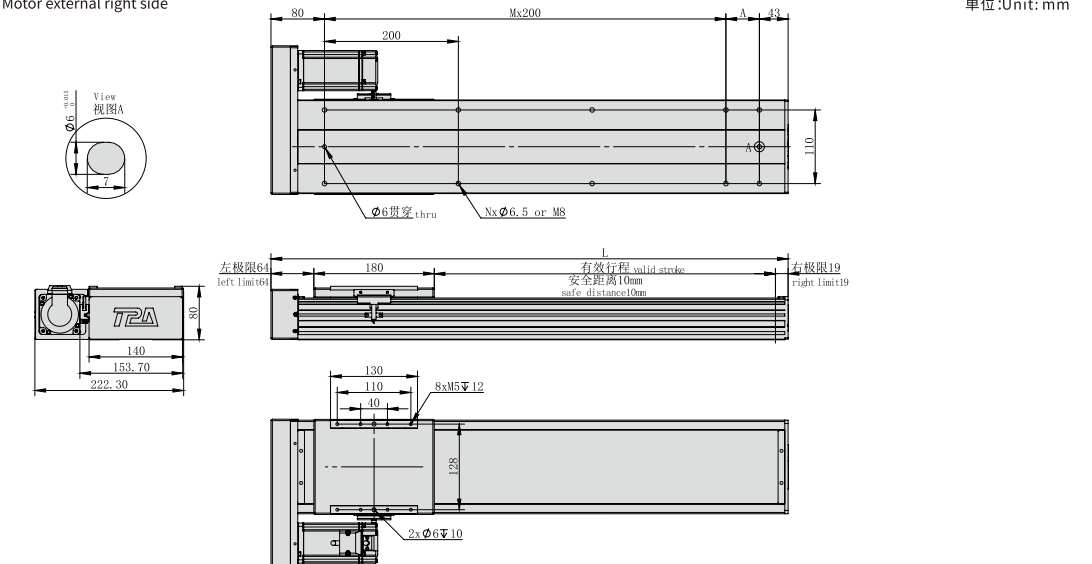


*不含电机重量。*Motor weight not included.

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	373	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
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	6	8	8	8	8	10	10	10	10	12	12	12	14	14	14	14	16	16	16	16	18	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	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	20.7	21.2

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.

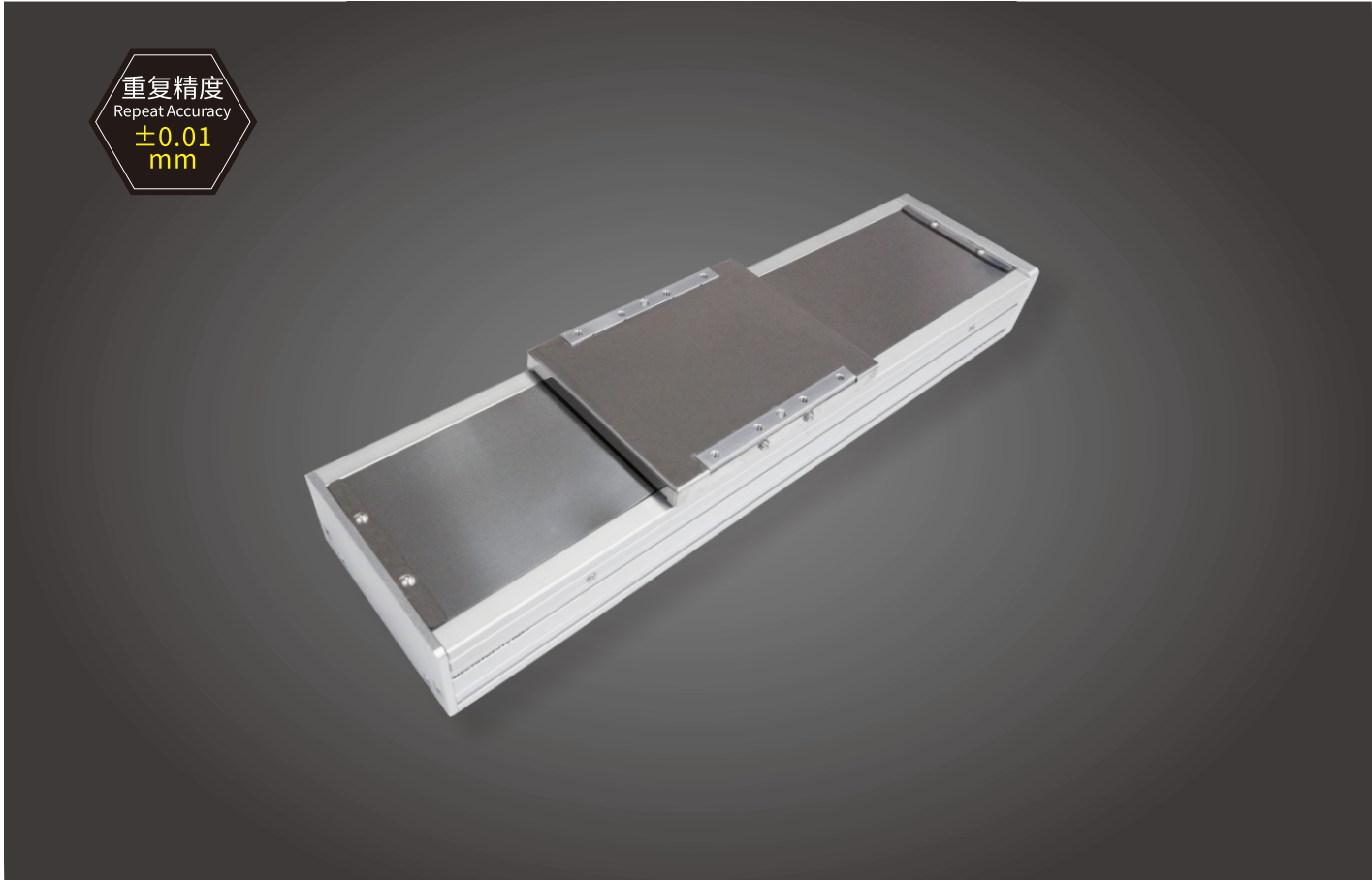
MR 电机外置右侧 Motor external right side



*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
L	373	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
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	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	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	20.7	21.2

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.



重复精度
Repeat Accuracy
 ± 0.01
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

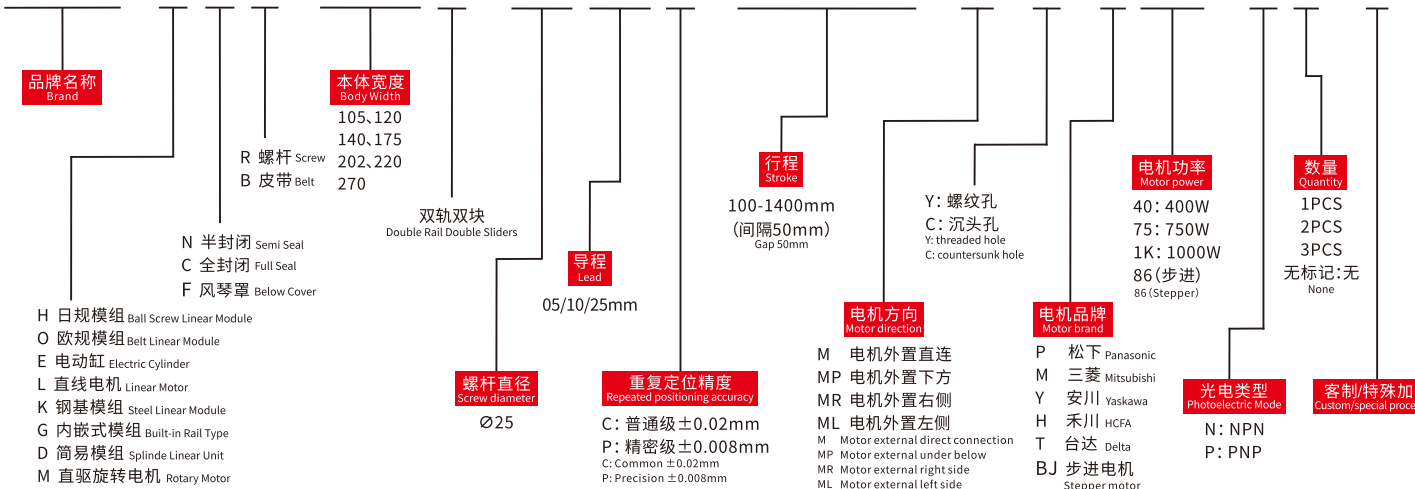
马达容量
Motor output
750W

滚珠螺杆
Ball screw
 $\varnothing 25$ mm

直线滑轨
Linear guide
20X15.5-2支

型号表达方式 Ordering method

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



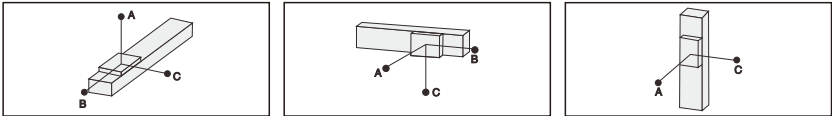
产品性能参数如下 Product performance parameters are as follows

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)	± 0.01		
	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)	70	55
	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		
部 品 Parts	滚珠螺杆外径 (mm) Ball screw $\varnothing$ (mm)	$\varnothing 25$		
	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

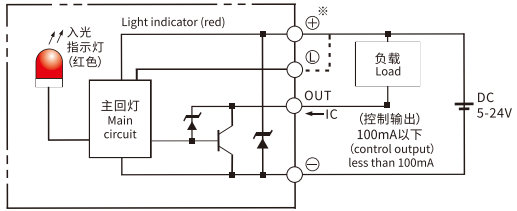


(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)			
水平安装 Horizontal installation				侧面安装 Side mounting				垂直安装 Vertical installation			
导程 5 Lead	A	B	C	导程 5 Lead	A	B	C	导程 5 Lead	A	C	
70kg	3235	349	408	75kg	377	322	2988	20kg	1368	1368	
90kg	2482	263	306	95kg	288	246	2333	30kg	911	911	
120kg	1861	187	218	120kg	218	187	1850	50kg	546	546	
导程 10 Lead	A	B	C	导程 10 Lead	A	B	C	导程 10 Lead	A	C	
65kg	1911	338	373	60kg	408	368	2092	15kg	1618	1618	
85kg	1445	248	276	80kg	296	266	1554	25kg	970	970	
120kg	1000	164	182	120kg	182	164	1002	40kg	607	607	
导程 25 Lead	A	B	C	导程 25 Lead	A	B	C	导程 25 Lead	A	C	
35kg	1666	547	538	30kg	633	644	1961	10kg	1922	1922	
55kg	1030	331	328	50kg	365	369	1143	14kg	1377	1377	
83kg	654	206	204	83kg	204	206	656	25kg	769	769	

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)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

感应器连接图<原点及端点> Sensor layout



HNR
HCR
HNB
HC
HCB
HNT
XYZ
参考资料 Reference data

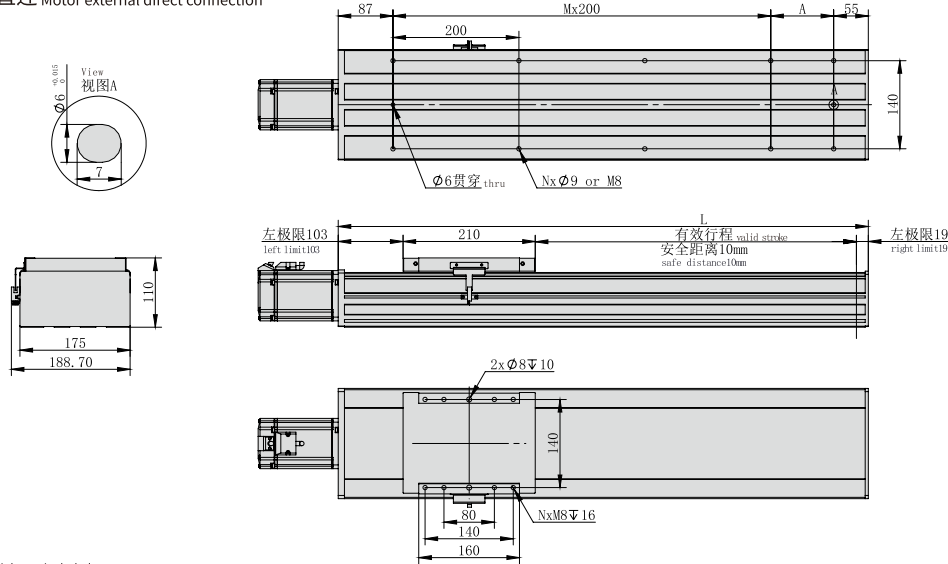


电机外置直连/电机外置下方

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	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	442	492	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292	1342	1392	1442	1492	1542	1592	1642	1692	1742	1792	1842	1892	1942	1992	2042	2092	2142
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	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	10
KG	12.5	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

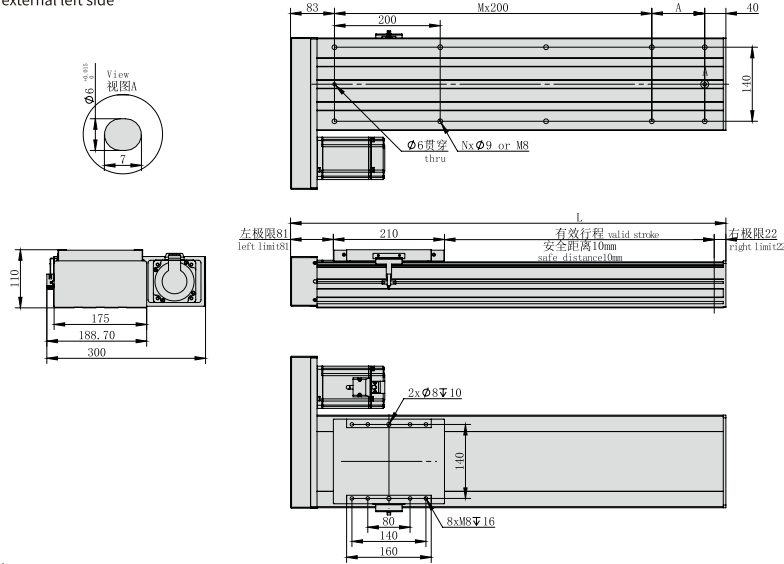
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

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



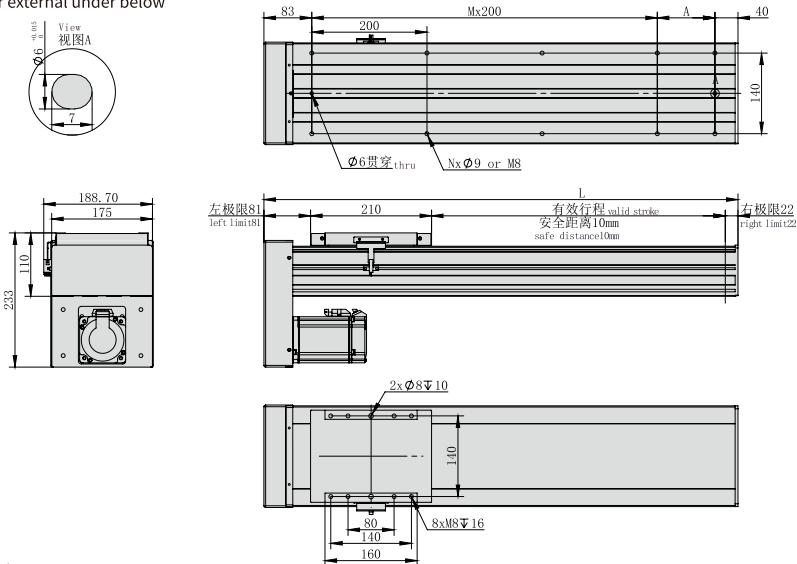
*不含电机重量。*Motor weight not included.

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	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	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	10
KG	12	13	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

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



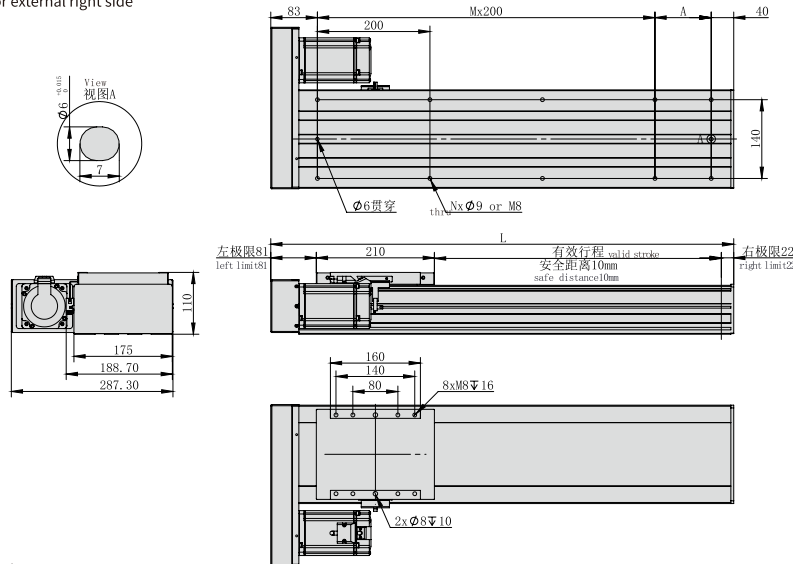
*不含电机重量。*Motor weight not included.

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	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	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	10
KG	12	13	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

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	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	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	10
KG	12	13	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

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.



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

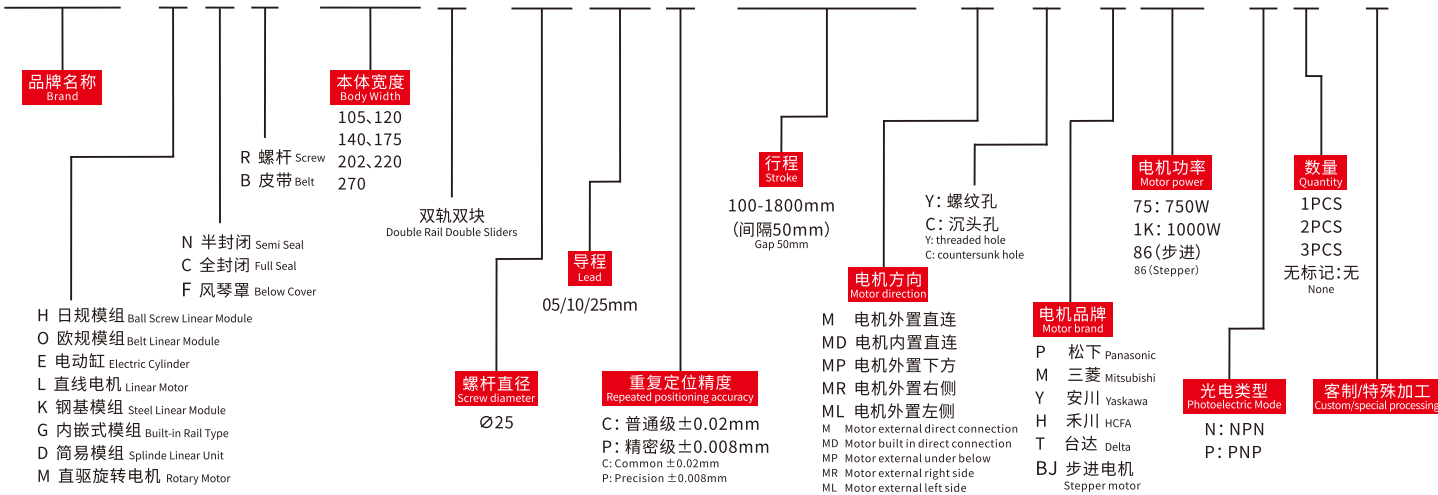
马达容量
Motor output 750W

滚珠螺杆
Ball screw Ø25mm

直线滑轨
Linear guide 25X22-2支

型号表达方式 Ordering method

TPA-HCR-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)	±0.01		
	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 (kg) Maximum Payload	水平使用 (kg) Horizontal (kg)	160	160
		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		
部 品 Parts	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℃, 85%RH (无凝结) No condensation		

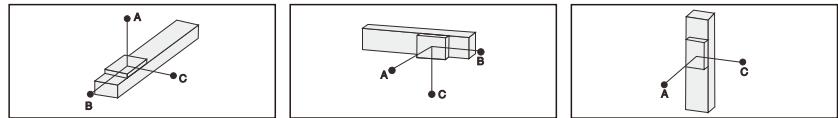
注1: 使用非上述功率电机时请依据实际参数推算。

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

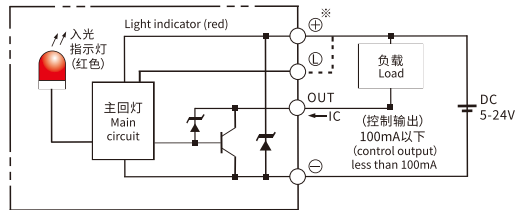


(单位Unit:mm)					(单位Unit:mm)					(单位Unit:mm)			
水平安装 Horizontal installation					侧面安装 Side mounting					垂直安装 Vertical installation			
A		B	C		A		B	C		A		C	
导程 5 Lead	40kg	1000	400	580	导程 5 Lead	40kg	380	380	1000	导程 5 Lead	10kg	1200	1200
	80kg	780	230	350		80kg	190	250	740		20kg	710	710
	100kg	680	185	230		100kg	140	190	620		30kg	560	560
导程 10 Lead	40kg	900	350	505	导程 10 Lead	40kg	250	310	860	导程 10 Lead	8kg	1000	1000
	80kg	710	200	300		80kg	130	170	620		18kg	600	600
	100kg	610	160	200		100kg	90	130	500		27kg	400	400
导程 25 Lead	20kg	1100	600	500	导程 25 Lead	20kg	350	350	700	导程 25 Lead	5kg	1100	1100
	40kg	790	370	300		40kg	200	205	470		10kg	800	800
	60kg	670	250	190		60kg	120	130	370		-	-	-

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)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

感应器连接图<原点及端点> Sensor layout



HNR

HCR

HNB

HC

HNT

XYZ

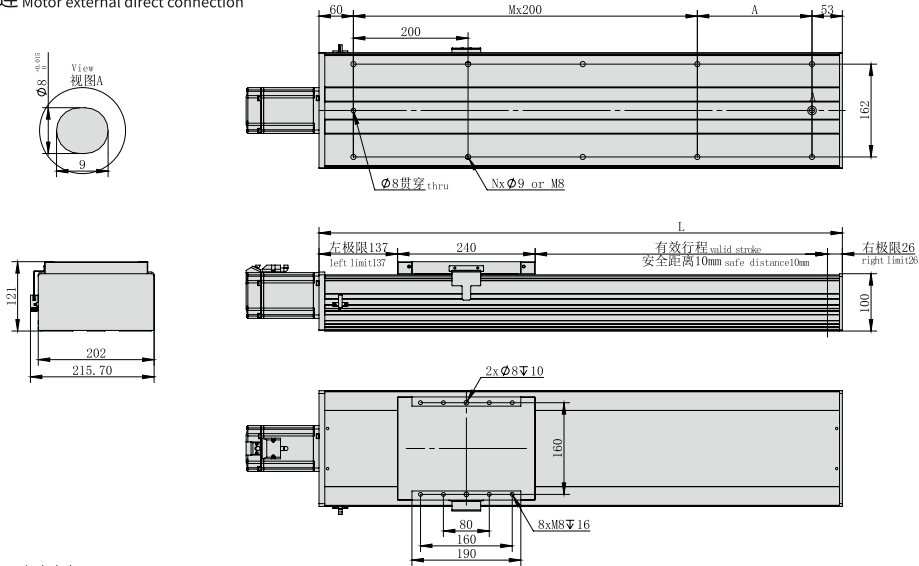
参考资料
Reference data



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.

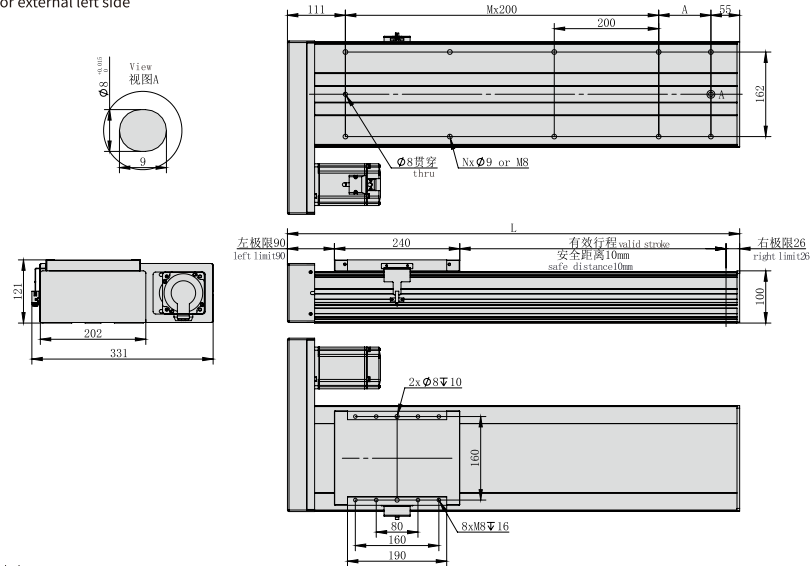
有效行程 Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	513	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	1463	1513	1563	1613	1663	1713	1763	1813	1863	1913	1963	2013	2063	2113	2163	2213
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	23.7	24.9	26.1	27.3	28.5	29.7	30.9	32.1	33.3	34.5	35.7	36.9	38.1	39.3	40.5	41.7	42.9	44.1	45.3	46.5	47.7	48.9	50.1	51.3	52.5	53.7	54.9	56.1	57.3	58.5	59.7	60.9	62.1	63.3	64.5

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



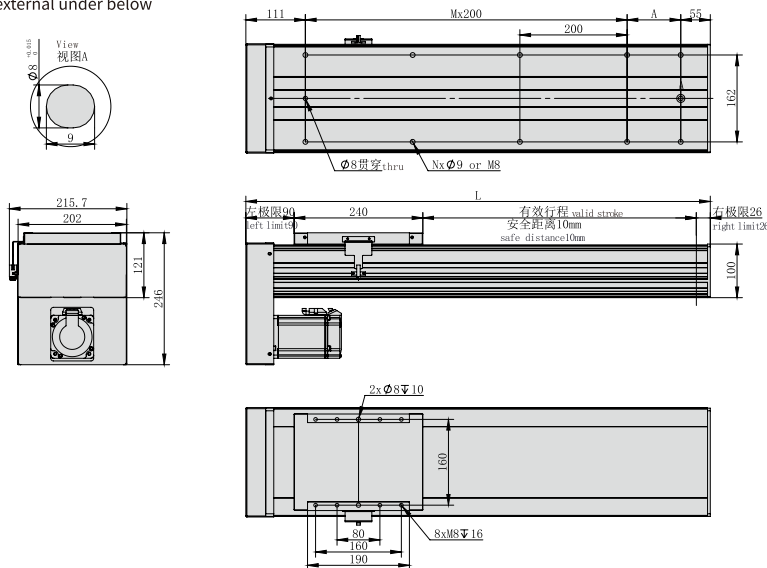
单位:Unit: mm

*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	466	516	566	616	666	716	766	816	866	916	966	1016	1066	1116	1166	1216	1266	1316	1366	1416	1466	1516	1566	1616	1666	1716	1766	1816	1866	1916	1966	2016	2066	2116	2166
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	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	22
M	1	1	1	1	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	24.1	25.3	26.5	27.7	28.9	30.1	31.3	32.5	33.7	34.9	36.1	37.3	38.5	39.7	40.9	42.1	43.3	44.5	45.7	46.9	48.1	49.3	50.5	51.7	52.9	54.1	55.3	56.5	57.7	58.9	60.1	61.3	62.5	63.7	64.9

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



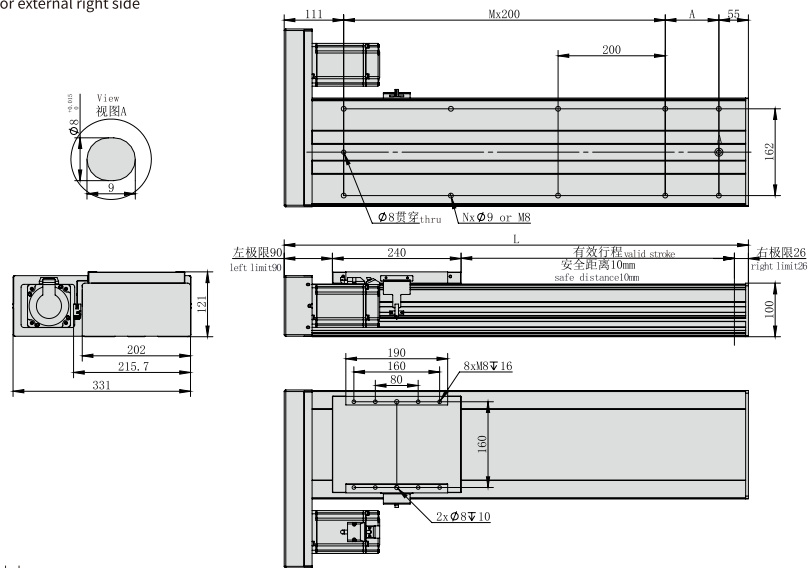
单位:Unit: mm

*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	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800
L	466	516	566	616	666	716	766	816	866	916	966	1016	1066	1116	1166	1216	1266	1316	1366	1416	1466	1516	1566	1616	1666	1716	1766	1816	1866	1916	1966	2016	2066	2116	2166
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	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	22
M	1	1	1	1	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	24.1	25.3	26.5	27.7	28.9	30.1	31.3	32.5	33.7	34.9	36.1	37.3	38.5	39.7	40.9	42.1	43.3	44.5	45.7	46.9	48.1	49.3	50.5	51.7	52.9	54.1	55.3	56.5	57.7	58.9	60.1	61.3	62.5	63.7	64.9

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	466	516	566	616	666	716	766	816	866	916	966	1016	1066	1116	1166	1216	1266	1316	1366	1416	1466	1516	1566	1616	1666	1716	1766	1816	1866	1916	1966	2016	2066	2116	2166
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	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	22
M	1	1	1	1	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	24.1	25.3	26.5	27.7	28.9	30.1	31.3	32.5	33.7	34.9	36.1	37.3	38.5	39.7	40.9	42.1	43.3	44.5	45.7	46.9	48.1	49.3	50.5	51.7	52.9	54.1	55.3	56.5	57.7	58.9	60.1	61.3	62.5	63.7	64.9

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.



重复精度
Repeat Accuracy
 ± 0.01
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 2400mm

最高速度
Max speed 1600mm/s

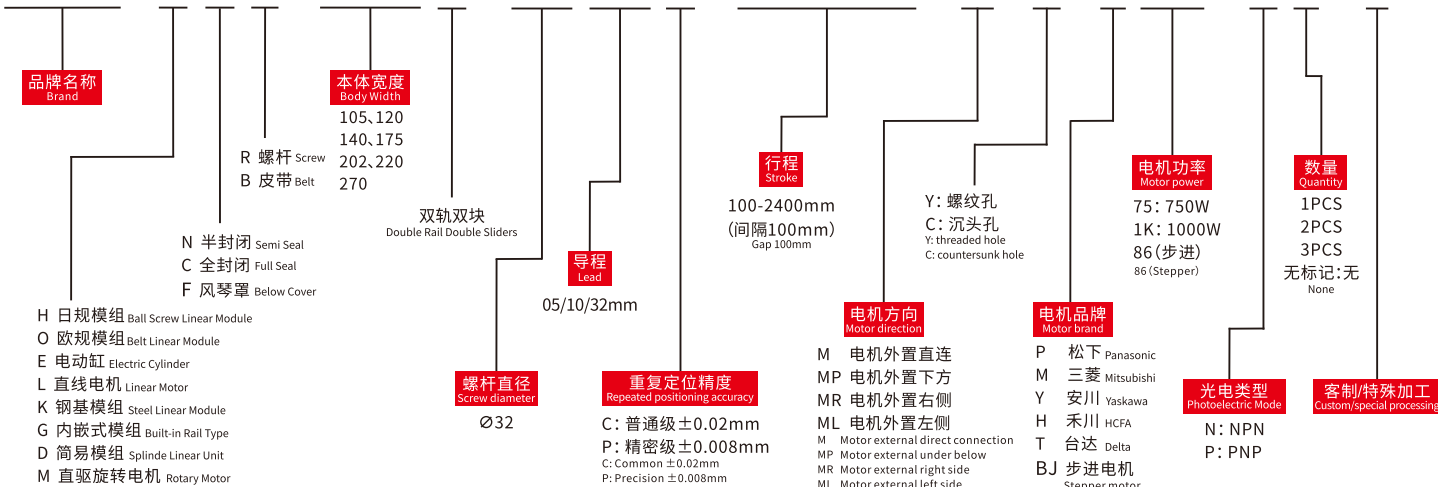
马达容量
Motor output 1000W

滚珠螺杆
Ball screw $\varnothing 32$ mm

直线滑轨
Linear guide 25X22-2支

型号表达方式 Ordering method

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



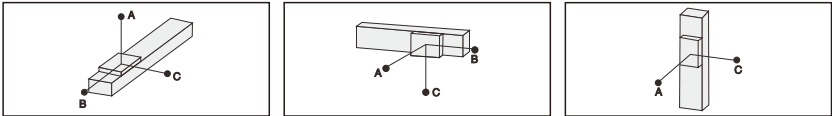
产品性能参数如下 Product performance parameters are as follows

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)		±0.01			
	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100 mm Pitch				
部 品 Parts	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℃, 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

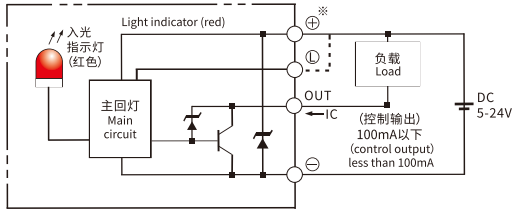


(单位Unit:mm)				(单位Unit:mm)				(单位Unit:mm)			
水平安装 Horizontal installation				侧面安装 Side mounting				垂直安装 Vertical installation			
导程 Lead	A	B	C	导程 Lead	A	B	C	导程 Lead	A	B	C
5	100kg	5000	633	577	110kg	500	569	4500	30kg	2355	2355
	125kg	3880	491	431	130kg	412	469	3711	40kg	1768	1768
	150kg	3357	396	347	150kg	347	396	3357	55kg	1288	1288
10	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
20	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	-	-	-
32	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	-	-	-

搭配伺服马达一览表 Suitable motor brand

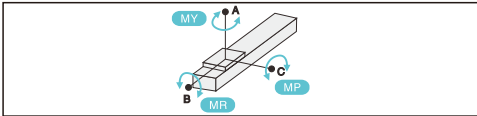
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

感应器连接图<原点及端点> Sensor layout



HNR
HCR
HNB
HC
HCB
HNT
XYZ
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.

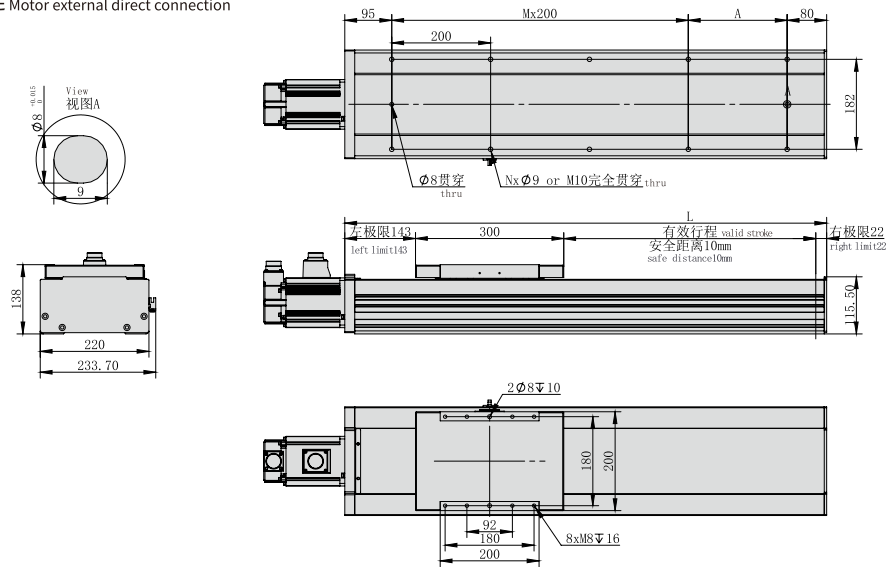
*倒吊使用无法套用标准规范,如有需求请咨询我司业务。
The standard specification cannot be applied to the use of inverted crane. Please consult our business if necessary.



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.

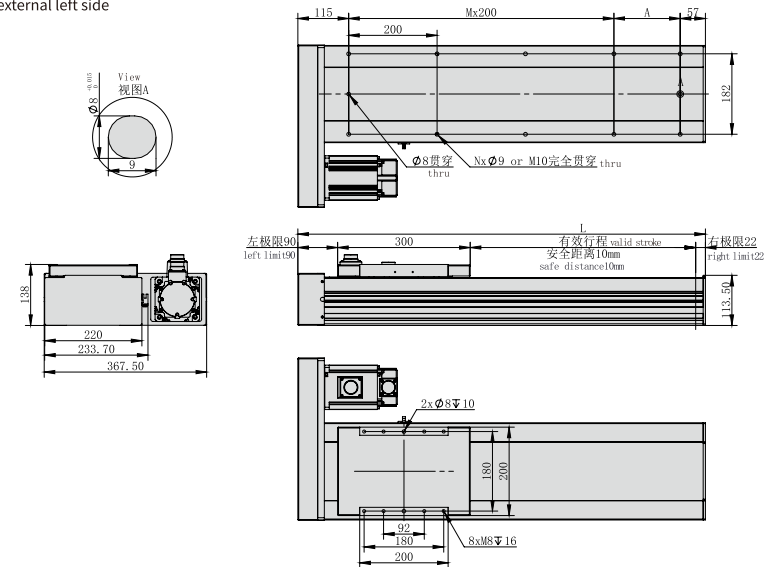
有效行程 Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	575	675	775	875	975	1075	1175	1275	1375	1475	1575	1675	1775	1875	1975	2075	2175	2275	2375	2475	2575	2675	2775	2875
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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
M	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14
KG	24.4	27.4	30.4	33.4	36.4	39.4	42.4	45.4	48.4	51.4	54.4	57.4	60.4	63.4	66.4	69.4	72.4	75.4	78.4	81.4	84.4	87.4	90.4	93.4

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



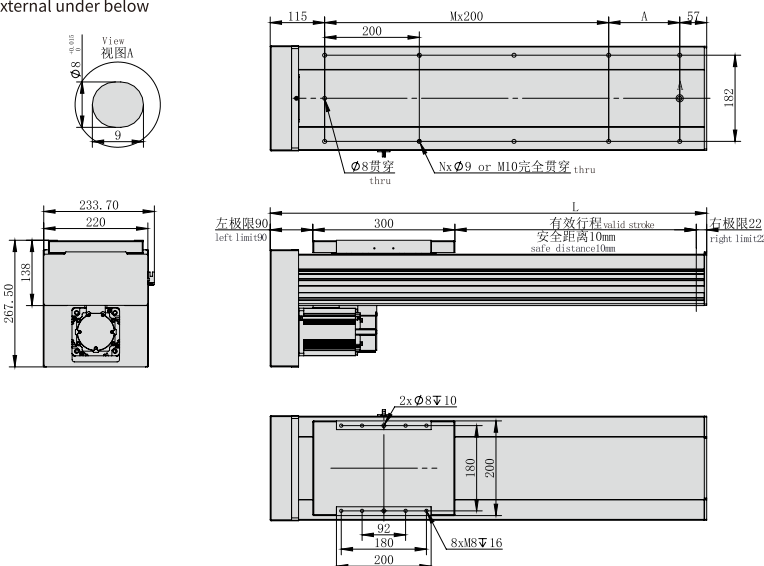
单位:Unit: mm

*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	522	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822
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
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
M	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14
KG	26.1	29.1	32.1	35.1	38.1	41.1	44.1	47.1	50.1	53.1	56.1	59.1	62.1	65.1	68.1	71.1	74.1	77.1	80.1	83.1	86.1	89.1	92.1	95.1

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



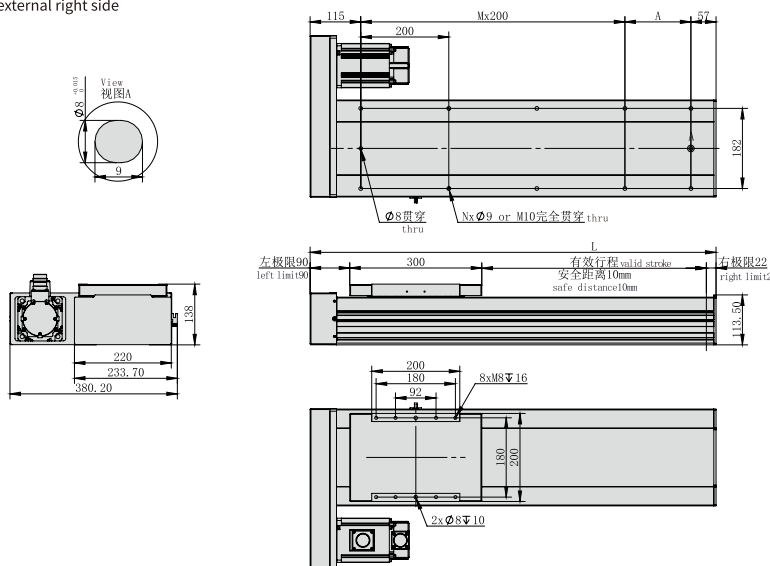
单位:Unit: mm

*不含电机重量。*Motor weight not included.

有效行程 Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	522	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822
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
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
M	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14
KG	26.1	29.1	32.1	35.1	38.1	41.1	44.1	47.1	50.1	53.1	56.1	59.1	62.1	65.1	68.1	71.1	74.1	77.1	80.1	83.1	86.1	89.1	92.1	95.1

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	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
L	522	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822
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
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
M	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14
KG	26.1	29.1	32.1	35.1	38.1	41.1	44.1	47.1	50.1	53.1	56.1	59.1	62.1	65.1	68.1	71.1	74.1	77.1	80.1	83.1	86.1	89.1	92.1	95.1

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.



重复精度
Repeat Accuracy
 ± 0.04
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
3050mm

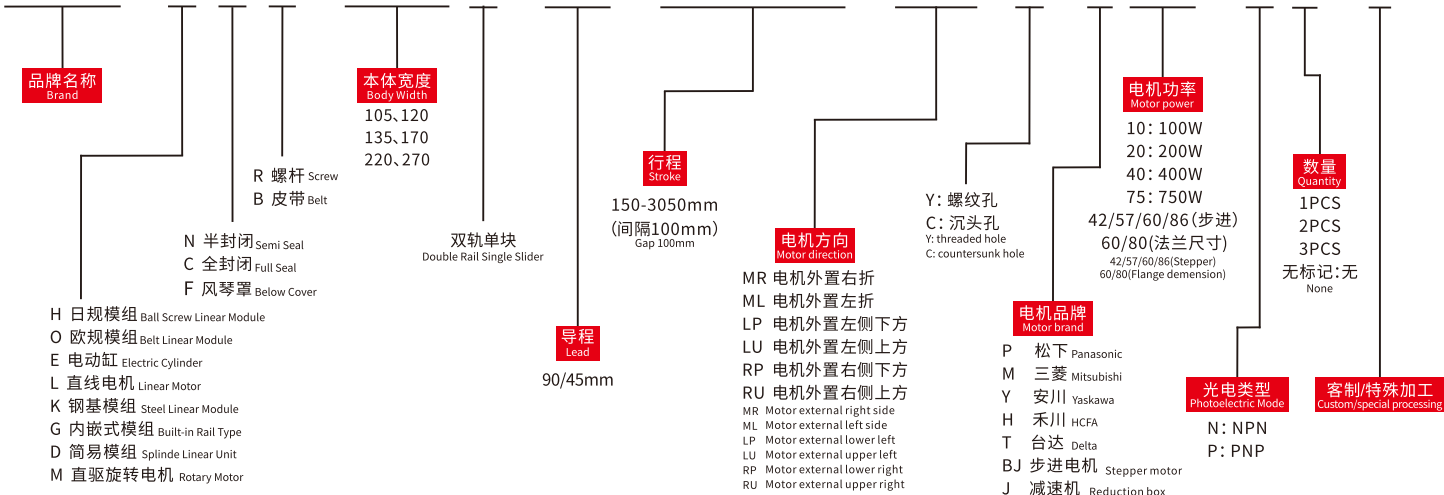
最高速度
Max speed
4500mm/s

马达容量
Motor output
200W

直线滑轨
Linear guide
15X12.5-2支

型号表达方式 Ordering method

TPA-HNB-105D-90-L3050-MR-Y-P20-N3-F



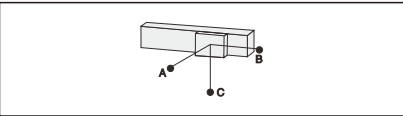
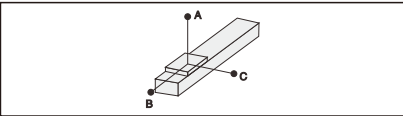
产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率 (W) Motor power (W)	200	
	重复定位精度 (mm) Repeated positioning accuracy (mm)	± 0.04	
	减速比 (mm) Reduction ratio	1:1	1:2
	导程 (mm) Lead (mm)	90	45
	最高速度 (mm/s) Maximum speed (mm/s)	4500	
	电机额定转速 (RPM) Rated speed of motor (RPM)	3000	
部品 Parts	最大可搬重量 Maximum Payload	9	18
	标准行程 (mm) Stroke pitch (mm)	150~3050mm/100 间隔 100 mm Pitch	
	底座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1	
使用环境 Operating environment	使用环境	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.

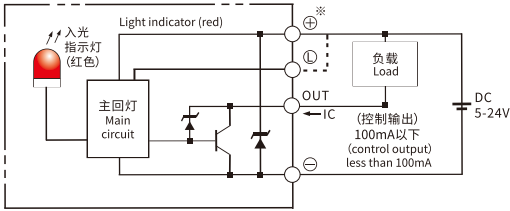
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be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



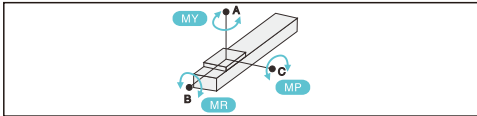
(单位Unit:mm)					(单位Unit:mm)				
水平安装 Horizontal installation		A	B	C	侧面安装 Side mounting		A	B	C
负载 Load	5kg	495	152	128	负载 Load	4kg	162	192	625
	8kg	301	91	77		7kg	89	106	347
	10kg	236	71	60		10kg	60	71	236

感应器连接图<原点及端点> Sensor layout



HNR
HCR
HNB
HC
HNT
XYZ
参考资料 Reference data

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

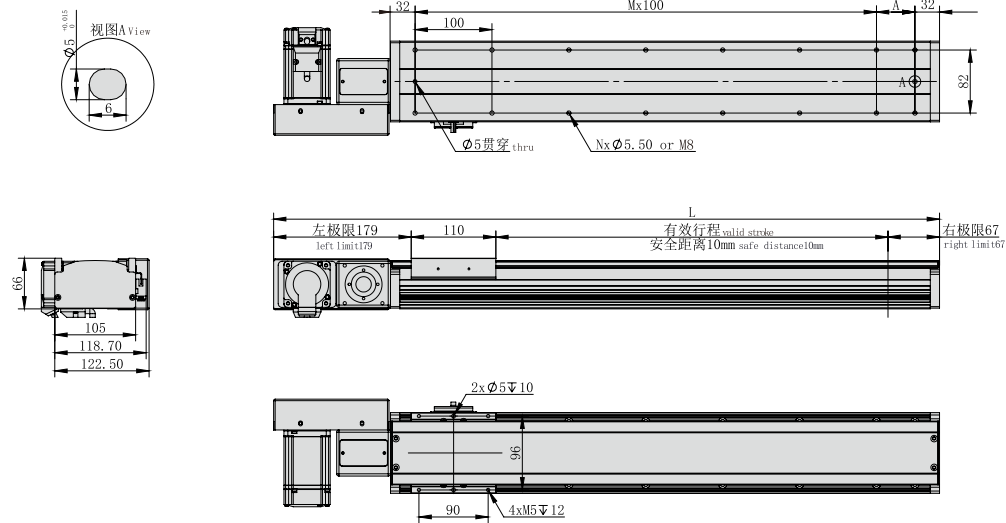


电机外置左侧/电机外置右侧

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	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	8	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	3	4	5	6	7	8	9	10	11	3	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
KG	4.8	5.5	6.2	6.9	7.6	8.3	9	9.7	10.4	4.8	11.8	12.5	13.2	13.9	14.6	15.3	16	16.7	17.4	18.1	18.8	19.5	20.2	20.9	21.6	22.3	23	23.7	24.4	25.1

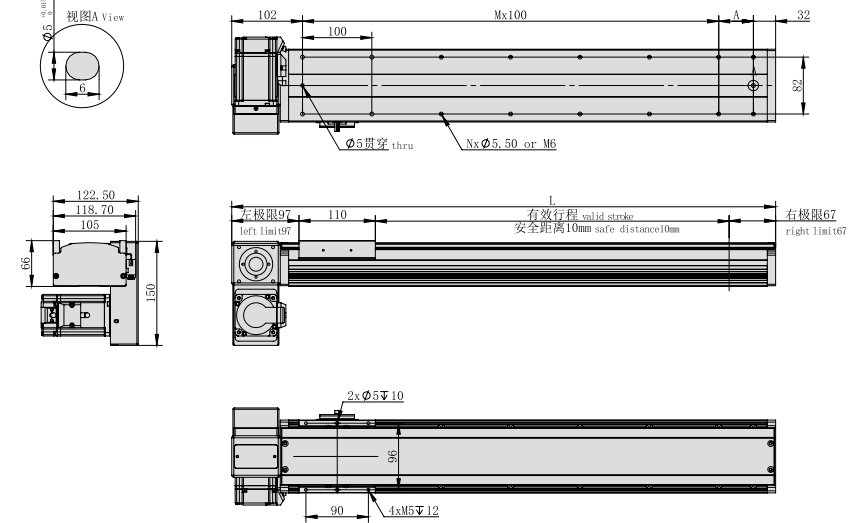
如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左下/电机外置左上

Motor external lower left / Motor external upper left

LP 电机外置左下 Motor external lower left

单位:Unit: mm



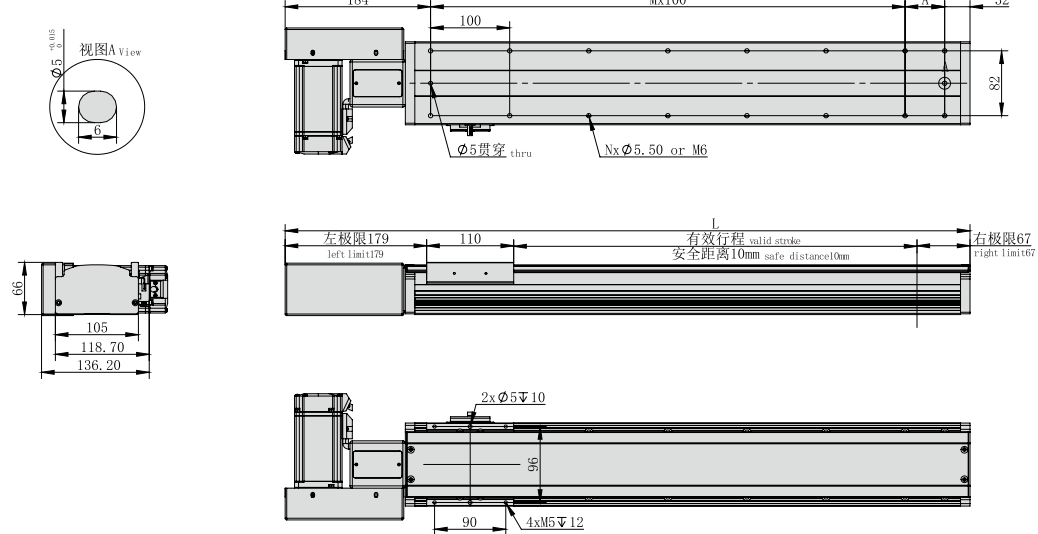
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	434	534	634	734	834	934	1034	1134	1234	1334	1434	1534	1634	1734	1834	1934	2034	2134	2234	2334	2434	2534	2634	2734	2834	2934	3034	3134	3234	3334
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
KG	4.8	5.5	6.2	6.9	7.6	8.3	9	9.7	10.4	11.1	11.8	12.5	13.2	13.9	14.6	15.3	16	16.7	17.4	18.1	18.8	19.5	20.2	20.9	21.6	22.3	23	23.7	24.4	25.1

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



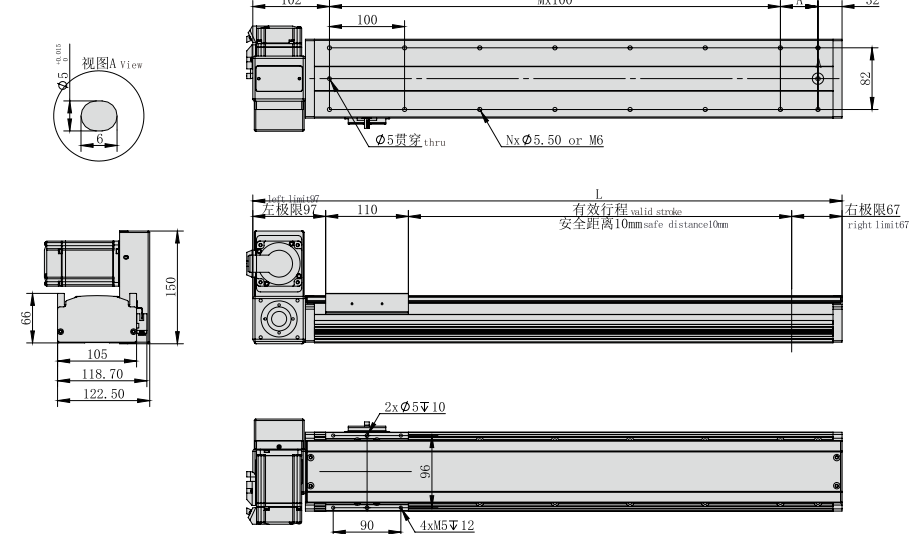
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	8	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	3	4	5	6	7	8	9	10	11	3	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
KG	4.8	5.5	6.2	6.9	7.6	8.3	9	9.7	10.4	4.8	11.8	12.5	13.2	13.9	14.6	15.3	16	16.7	17.4	18.1	18.8	19.5	20.2	20.9	21.6	22.3	23	23.7	24.4	25.1

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.

LU 电机外置左上 Motor external upper left

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	434	534	634	734	834	934	1034	1134	1234	1334	1434	1534	1634	1734	1834	1934	2034	2134	2234	2334	2434	2534	2634	2734	2834	2934	3034	3134	3234	3334
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
KG	4.8	5.5	6.2	6.9	7.6	8.3	9	9.7	10.4	11.1	11.8	12.5	13.2	13.9	14.6	15.3	16	16.7	17.4	18.1	18.8	19.5	20.2	20.9	21.6	22.3	23	23.7	24.4	25.1

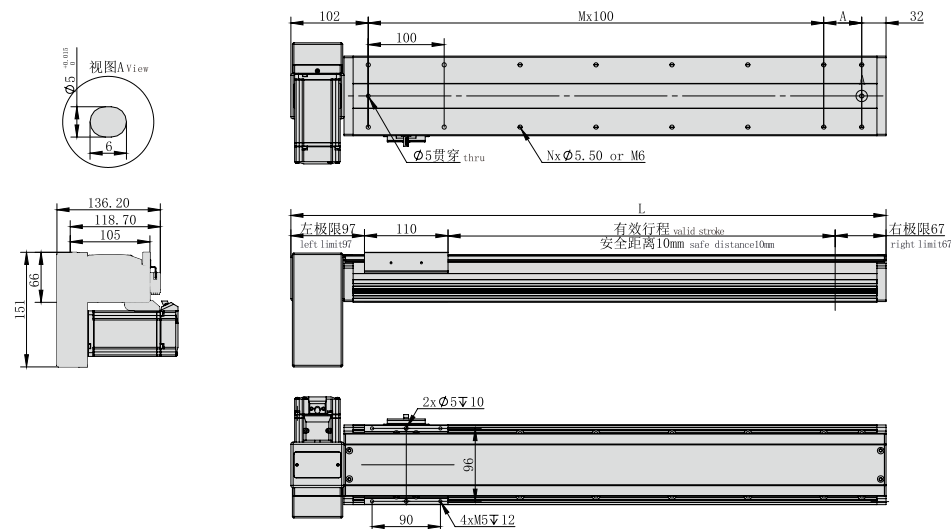
如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置右下/电机外置右上

Motor external lower right / Motor external upper right

RP 电机外置右下 Motor external lower right

单位:Unit:mm



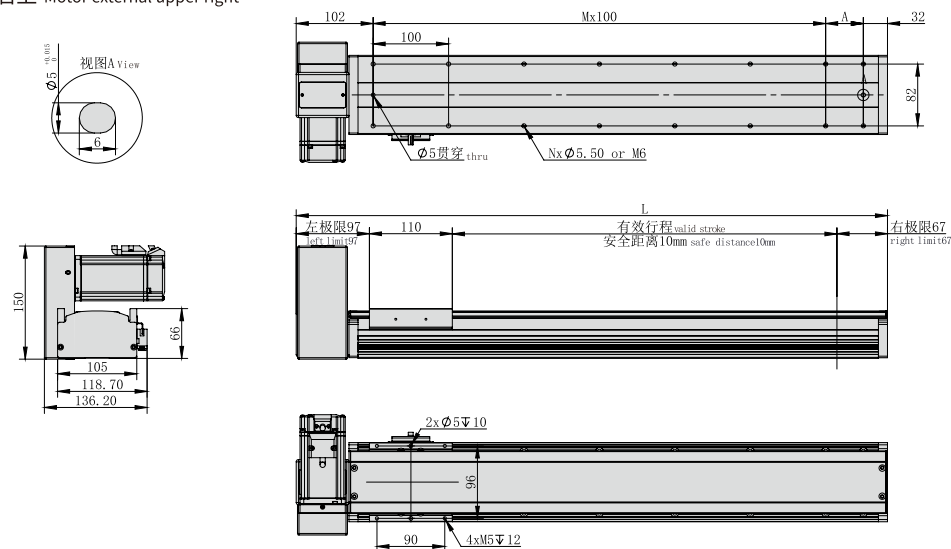
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	434	534	634	734	834	934	1034	1134	1234	1334	1434	1534	1634	1734	1834	1934	2034	2134	2234	2334	2434	2534	2634	2734	2834	2934	3034	3134	3234	3334
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
KG	4.8	5.5	6.2	6.9	7.6	8.3	9	9.7	10.4	11.1	11.8	12.5	13.2	13.9	14.6	15.3	16	16.7	17.4	18.1	18.8	19.5	20.2	20.9	21.6	22.3	23	23.7	24.4	25.1

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.

RU 电机外置右上 Motor external upper right

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	434	534	634	734	834	934	1034	1134	1234	1334	1434	1534	1634	1734	1834	1934	2034	2134	2234	2334	2434	2534	2634	2734	2834	2934	3034	3134	3234	3334
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
KG	4.8	5.5	6.2	6.9	7.6	8.3	9	9.7	10.4	11.1	11.8	12.5	13.2	13.9	14.6	15.3	16	16.7	17.4	18.1	18.8	19.5	20.2	20.9	21.6	22.3	23	23.7	24.4	25.1

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.

MEMO

HNR
HCR
HNB
HCB
HNT
XYZ
参考資料 Reference data



重复精度
Repeat Accuracy
 ± 0.04
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
3050mm

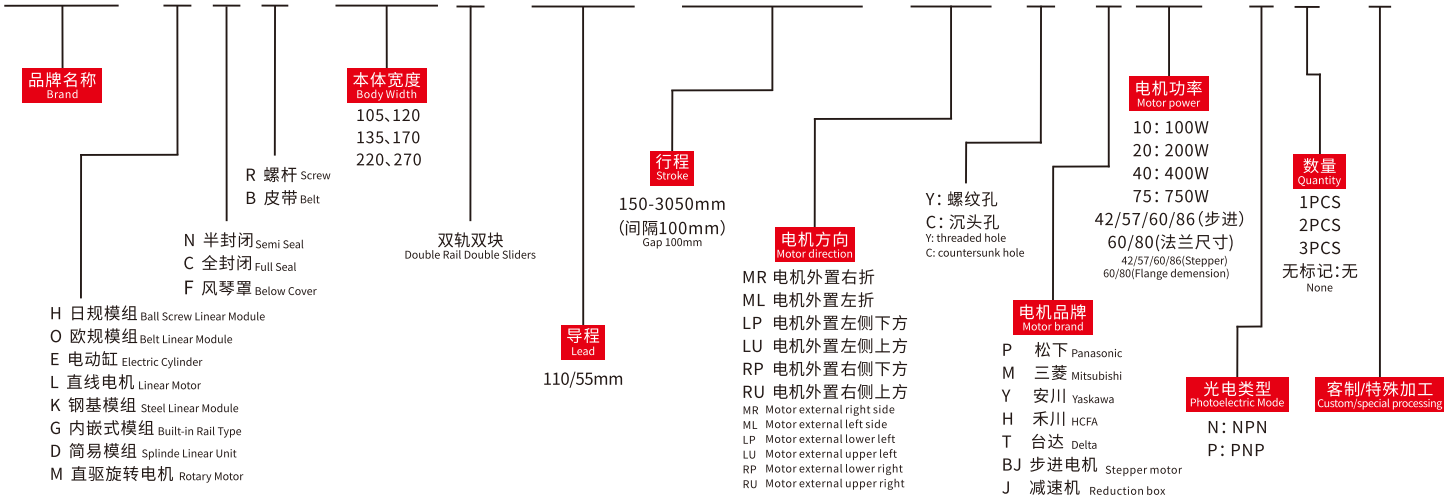
最高速度
Max speed
5500mm/s

马达容量
Motor output
400W

直线滑轨
Linear guide
15X12.5-2支

型号表达方式 Ordering method

TPA-HNB-120D-110-L3050-MR-Y-P40-N3-F



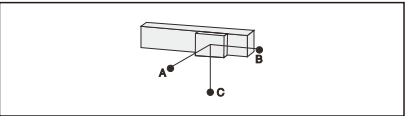
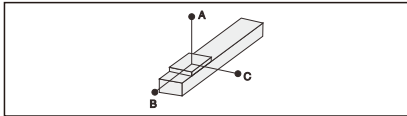
产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率 (W) Motor power (W)	400	
	重复定位精度 (mm) Repeated positioning accuracy (mm)	± 0.04	
	减速比 (mm) Reduction ratio	1:1	1:2
	导程 (mm) Lead (mm)	110	55
	最高速度 (mm/s) Maximum speed (mm/s)	5500	
	电机额定转速 (RPM) Rated speed of motor (RPM)	3000	
部品 Parts	最大可搬重量 Maximum Payload	14	28
	标准行程 (mm) Stroke pitch (mm)	150~3050mm/100 间隔 100 mm Pitch	
	底座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1	
使用环境 Operating environment	使用环境	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

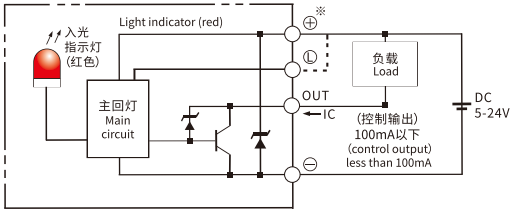


(单位Unit:mm)					(单位Unit:mm)				
水平安装 Horizontal installation		A	B	C	侧面安装 Side mounting		A	B	C
负载 Load	5kg	1794	688	538	负载 Load	5kg	348	446	1170
	10kg	858	324	253		10kg	285	365	961
	20kg	670	251	197		20kg	197	251	670

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)	400	220	HG-KN43J-S100	MR-JE-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMF042L1U2M	MBDLN25SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECM-B3M-C20604RS1	ASD-B3-0421-L

感应器连接图<原点及端点> Sensor layout



HNR
HCR
HNB
HC
HCB
HNT
XYZ
参考资料 Reference data

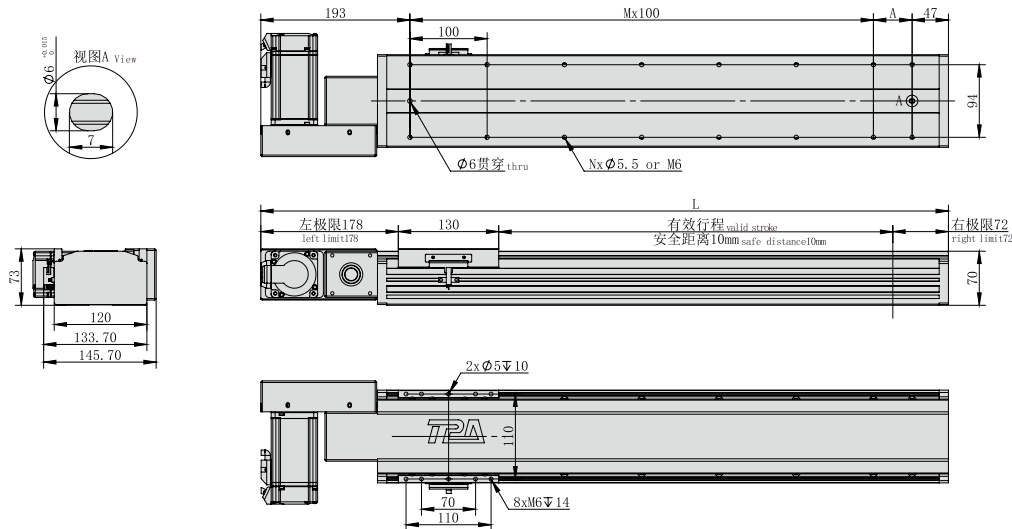


电机外置左侧/电机外置右侧

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	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	540	640	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940	3040	3140	3240	3340	3440
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

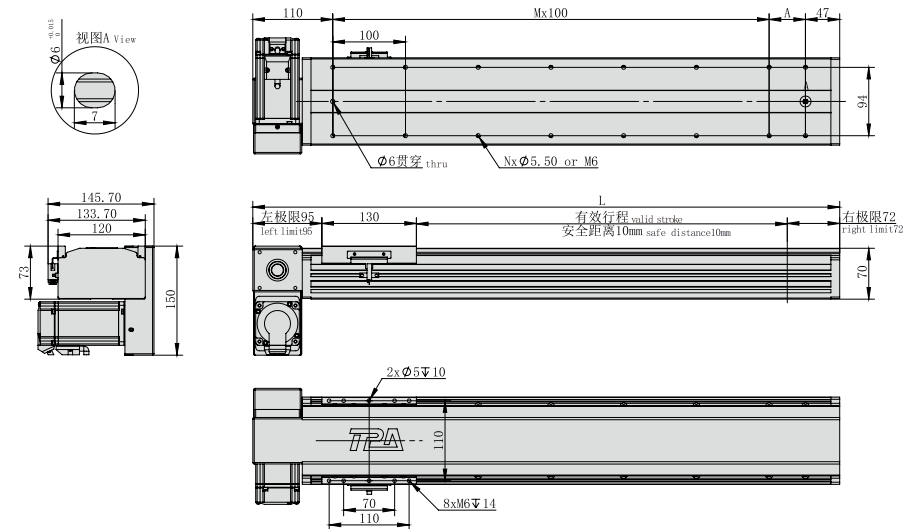
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左下/电机外置左上

Motor external lower left / Motor external upper left

LP 电机外置左下 Motor external lower left

单位:Unit: mm



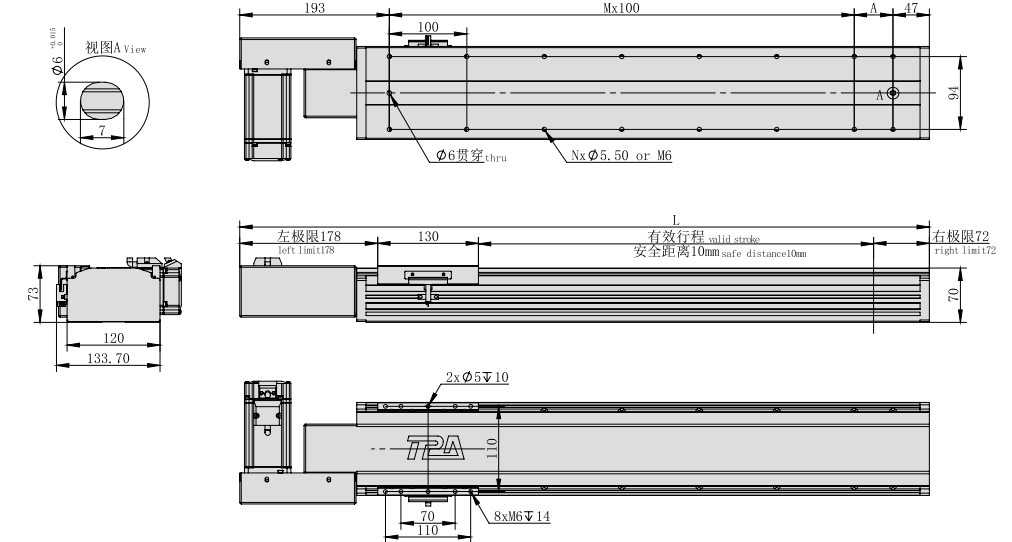
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	457	557	657	757	857	957	1057	1157	1257	1357	1457	1557	1657	1757	1857	1957	2057	2157	2257	2357	2457	2557	2657	2757	2857	2957	3057	3157	3257	3357
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

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



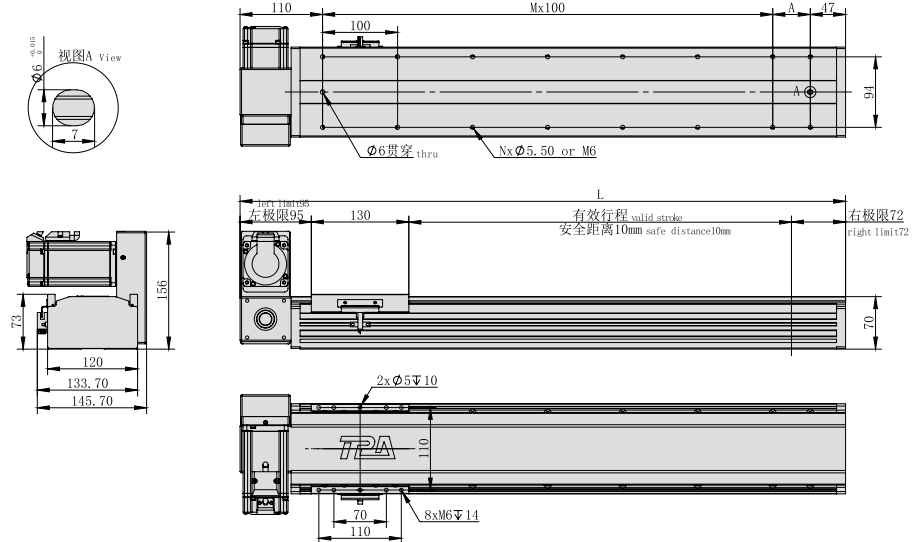
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	540	640	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940	3040	3140	3240	3340	3440
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

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.

LU 电机外置左上 Motor external upper left

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	457	557	657	757	857	957	1057	1157	1257	1357	1457	1557	1657	1757	1857	1957	2057	2157	2257	2357	2457	2557	2657	2757	2857	2957	3057	3157	3257	3357
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

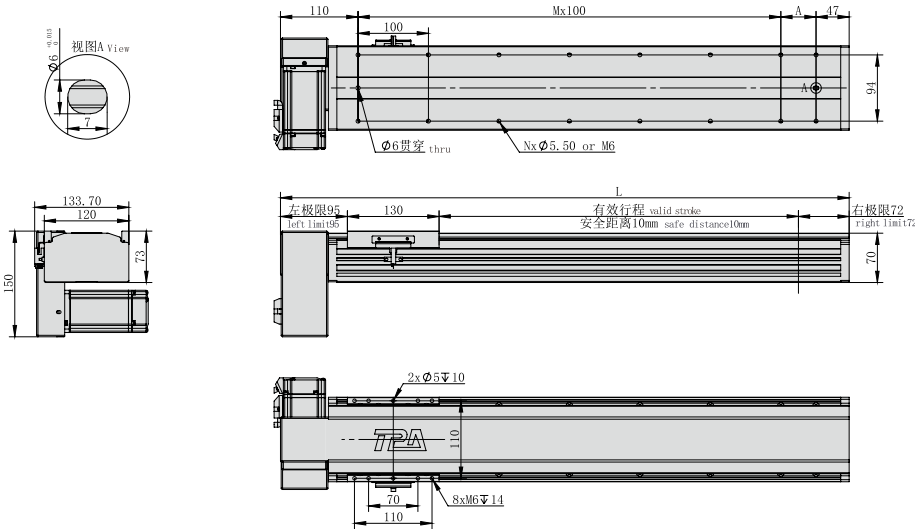
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.



电机外置右下/电机外置右上
Motor external lower right / Motor external upper right

RP 电机外置右下 Motor external lower right

单位:Unit: mm



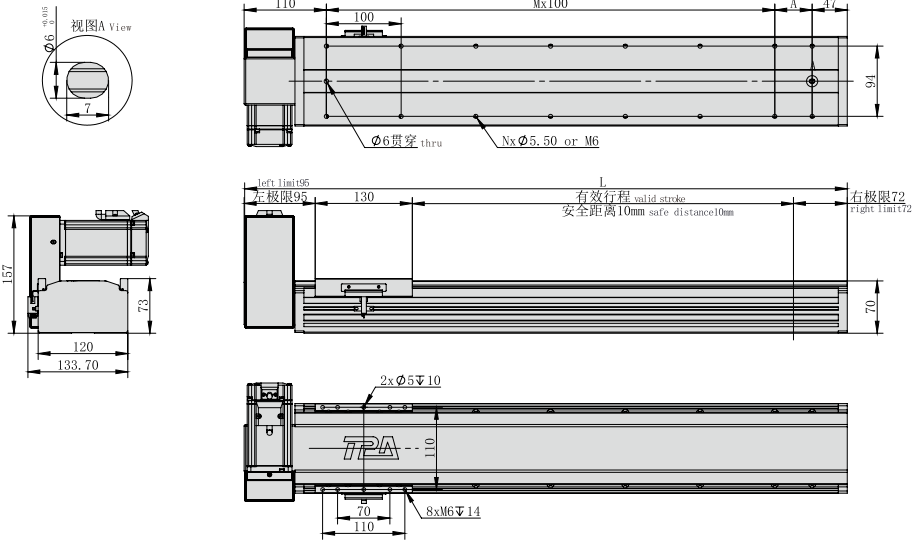
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	457	557	657	757	857	957	1057	1157	1257	1357	1457	1557	1657	1757	1857	1957	2057	2157	2257	2357	2457	2557	2657	2757	2857	2957	3057	3157	3257	3357
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

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.

RU 电机外置右上 Motor external upper right

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	457	557	657	757	857	957	1057	1157	1257	1357	1457	1557	1657	1757	1857	1957	2057	2157	2257	2357	2457	2557	2657	2757	2857	2957	3057	3157	3257	3357
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

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



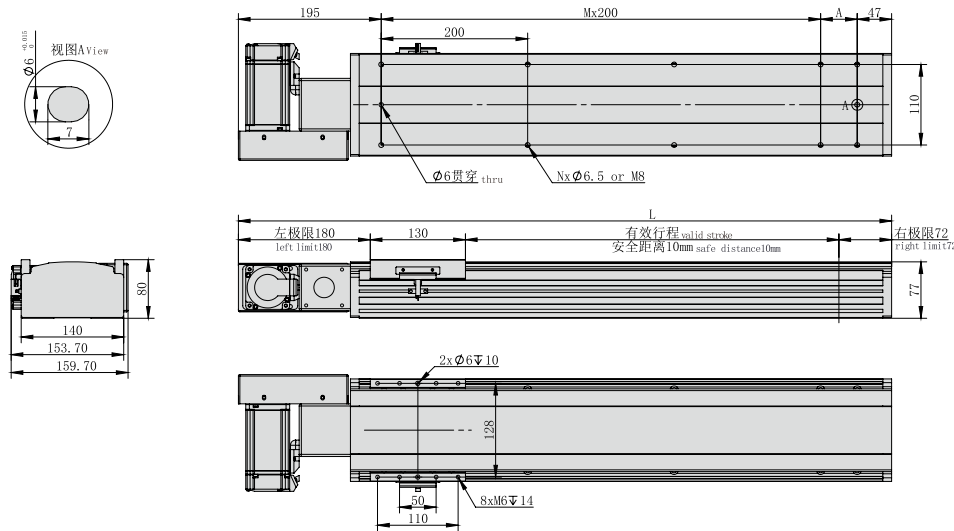


电机外置左侧/电机外置右侧

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	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	542	642	742	842	942	1042	1142	1242	1342	1442	1542	1642	1742	1842	1942	2042	2142	2242	2342	2442	2542	2642	2742	2842	2942	3042	3142	3242	3342	3442
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
N	6	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
M	1	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	15	15
KG	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	21	21.5	22	22.5

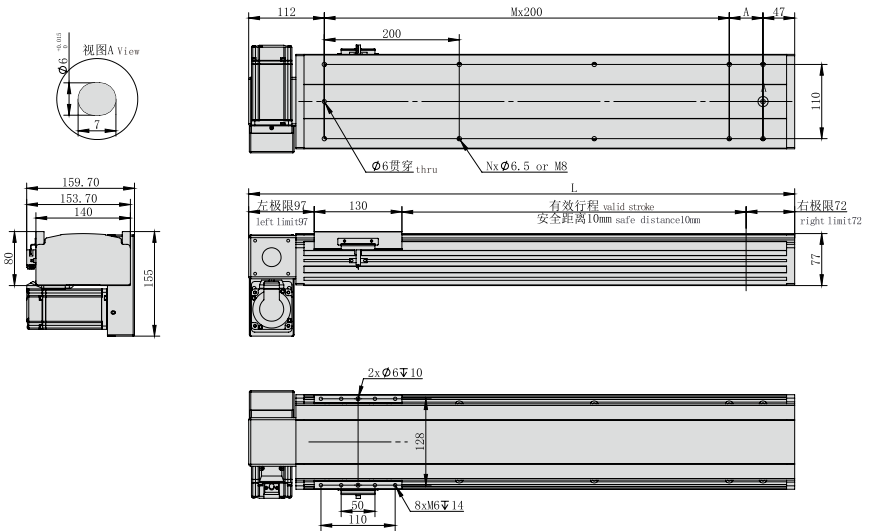
如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左下/电机外置左上

Motor external lower left / Motor external upper left

LP 电机外置左下 Motor external lower left

单位:Unit: mm



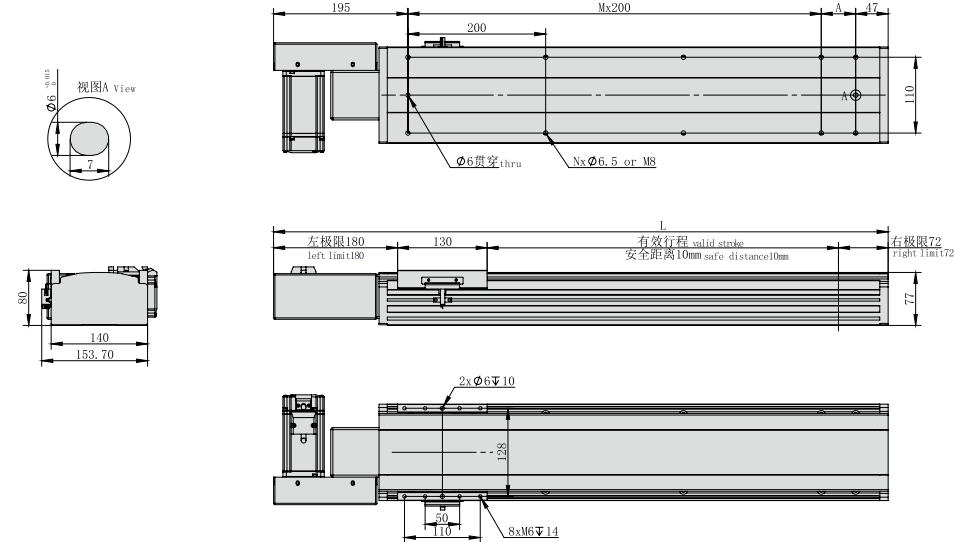
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	459	559	659	759	859	959	1059	1159	1259	1359	1459	1559	1659	1759	1859	1959	2059	2159	2259	2359	2459	2559	2659	2759	2859	2959	3059	3159	3259	3359
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
N	6	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
M	1	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	15	15
KG	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	21	21.5	22	22.5

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



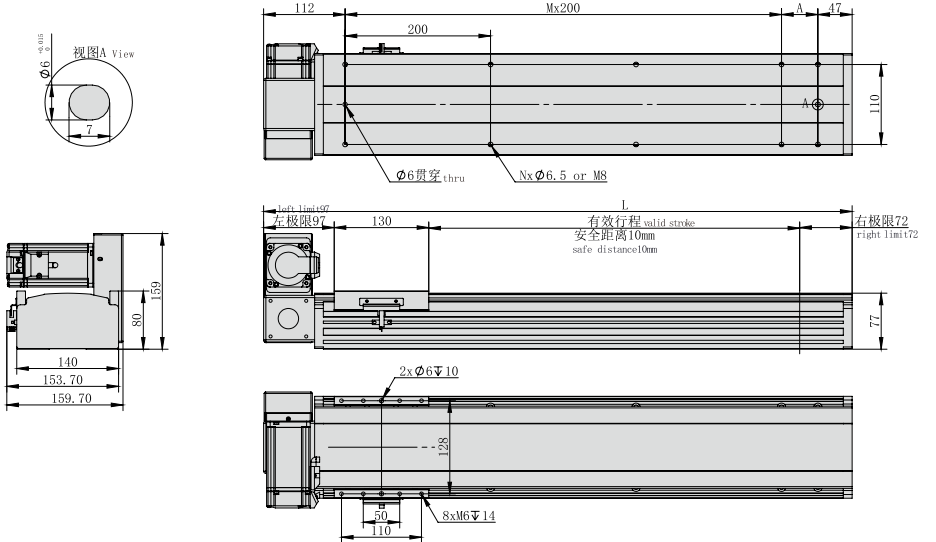
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	542	642	742	842	942	1042	1142	1242	1342	1442	1542	1642	1742	1842	1942	2042	2142	2242	2342	2442	2542	2642	2742	2842	2942	3042	3142	3242	3342	3442
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
N	6	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
M	1	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	15	15
KG	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	21	21.5	22	22.5

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.

LU 电机外置左上 Motor external upper left

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	459	559	659	759	859	959	1059	1159	1259	1359	1459	1559	1659	1759	1859	1959	2059	2159	2259	2359	2459	2559	2659	2759	2859	2959	3059	3159	3259	3359
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
N	6	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
M	1	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	15	15
KG	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	21	21.5	22	22.5

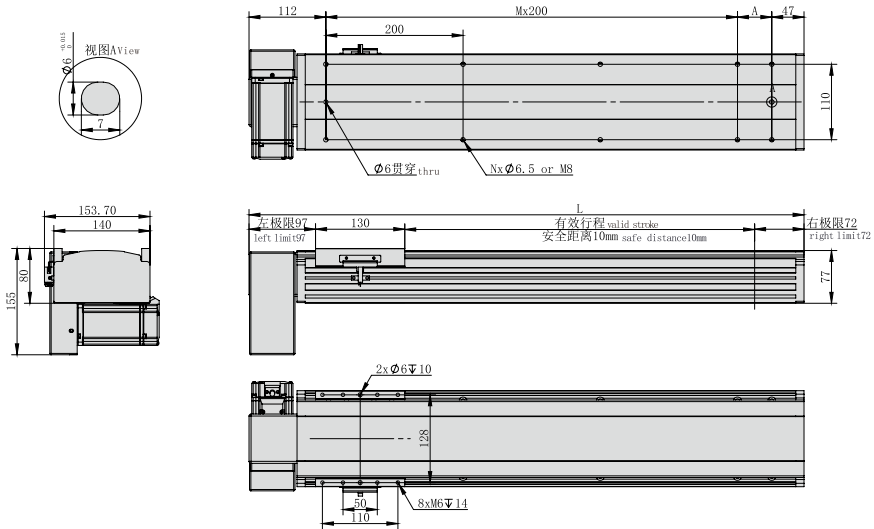
如有超长行程及定制需求, 请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.



电机外置右下/电机外置右上
Motor external lower right / Motor external upper right

RP 电机外置右下 Motor external lower right

单位:Unit:mm



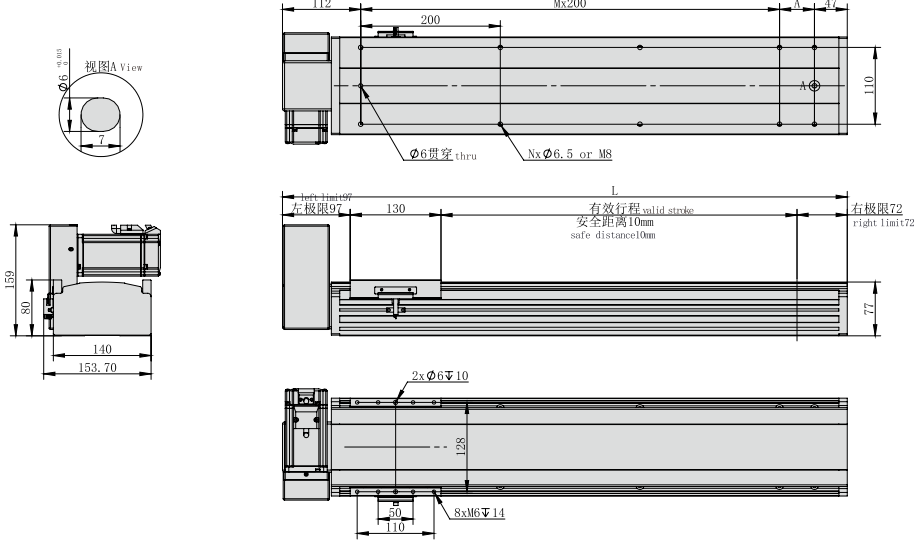
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	459	559	659	759	859	959	1059	1159	1259	1359	1459	1559	1659	1759	1859	1959	2059	2159	2259	2359	2459	2559	2659	2759	2859	2959	3059	3159	3259	3359
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
N	6	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
M	1	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	15	15
KG	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	21	21.5	22	22.5

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.

RU 电机外置右上 Motor external upper right

单位:Unit:mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	459	559	659	759	859	959	1059	1159	1259	1359	1459	1559	1659	1759	1859	1959	2059	2159	2259	2359	2459	2559	2659	2759	2859	2959	3059	3159	3259	3359
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
N	6	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
M	1	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	15	15
KG	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	21	21.5	22	22.5

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.

MEMO

HNR-E

HN B-E

HFR

HNR

HCR

HN B

HCB

HNT

XYZ

参考资料
Reference
data



重复精度
Repeat Accuracy
 ± 0.04
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
3050mm

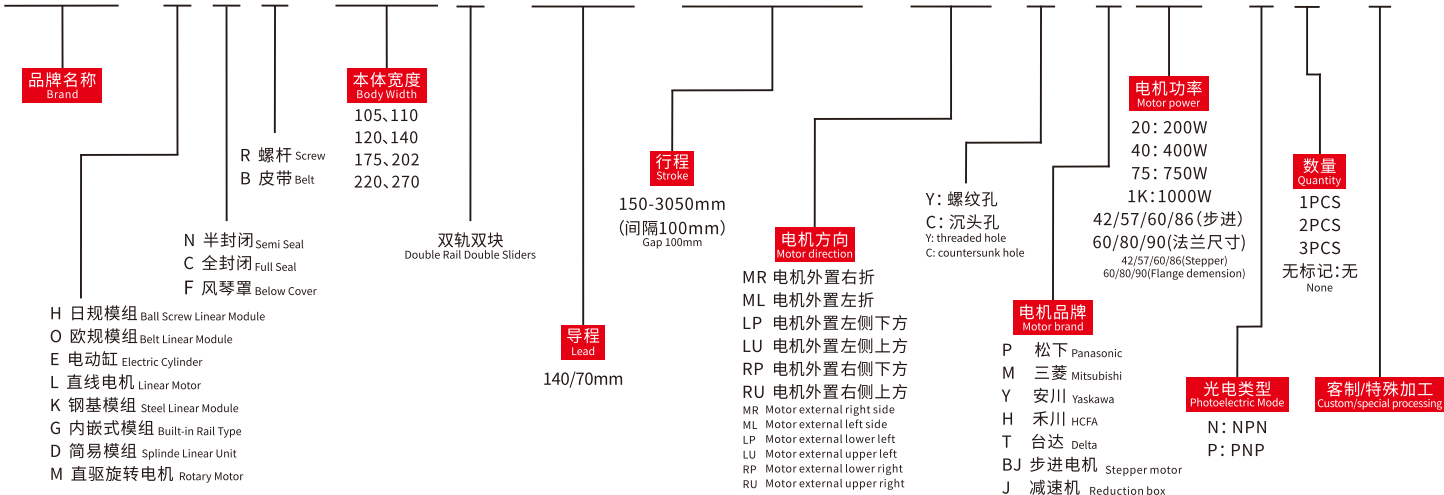
最高速度
Max speed
7000mm/s

马达容量
Motor output
750W

直线滑轨
Linear guide
20X15.5-2支

型号表达方式 Ordering method

TPA-HNB-175D-140-L3050-MR-Y-P75-N3-F



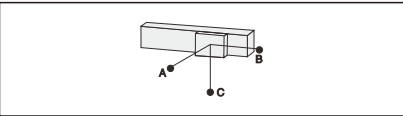
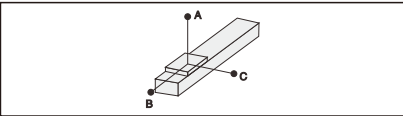
产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率 (W) Motor power (W)	750	
	重复定位精度 (mm) Repeated positioning accuracy (mm)	± 0.04	
	减速比 (mm) Reduction ratio	1:1	1:2
	导程 (mm) Lead (mm)	140	70
	最高速度 (mm/s) Maximum speed (mm/s)	7000	
	电机额定转速 (RPM) Rated speed of motor (RPM)	3000	
	最大可搬重量 Maximum Payload	30	60
部品 Parts	标准行程 (mm) Stroke pitch (mm)	150~3050mm/100 间隔100 mm Pitch	
	底座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1	
	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



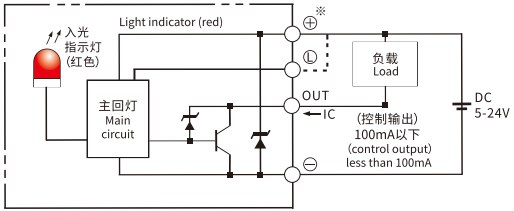
水平安装 Horizontal installation		A	B	C
负载 Load	10kg	2942	1133	1033
	20kg	1430	547	498
	30kg	926	350	320
	45kg	588	219	201

侧面安装 Side mounting		A	B	C
负载 Load	15kg	676	742	1933
	25kg	390	428	1127
	35kg	269	294	781
	45kg	201	219	588

搭配伺服马达一览表 Suitable motor brand

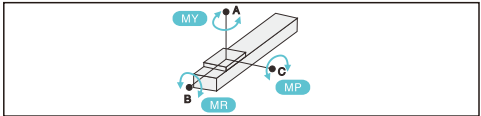
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

感应器连接图<原点及端点> Sensor layout



HNR-E
HNB-E
HFR
HNR
HCR
HNB
HC
HCB
HNT
XYZ
参考资料 Reference data

静态容许负载惯量 Static loading moment



(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.

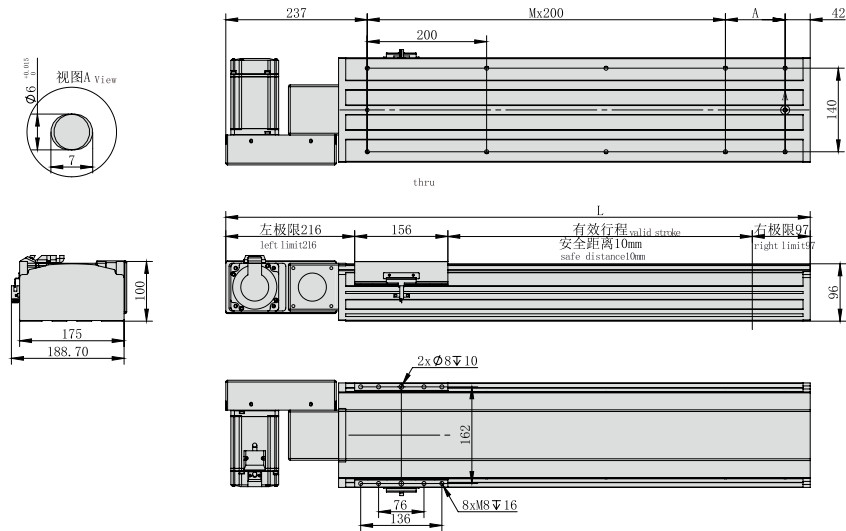


电机外置左侧/电机外置右侧

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	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	629	729	829	929	1029	1129	1229	1329	1429	1529	1629	1729	1829	1929	2029	2129	2229	2329	2429	2529	2629	2729	2829	2929	3029	3129	3229	3329	3429	3529
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	13	13	14	14	15	15	16
KG	13	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

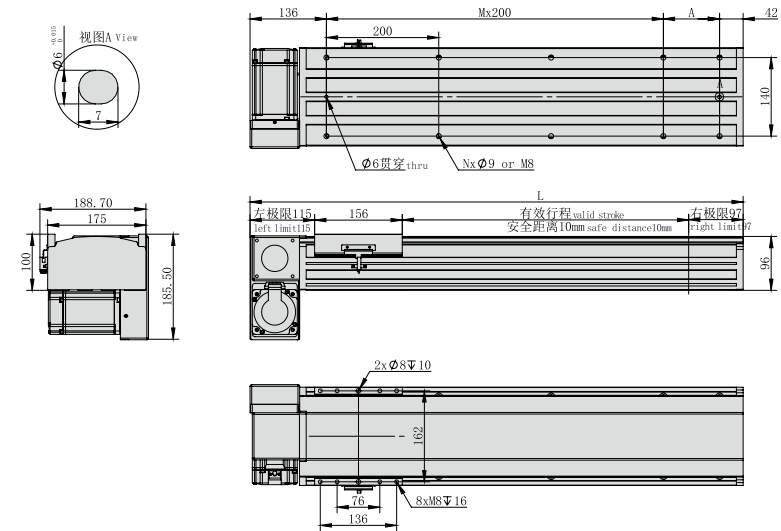
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左下/电机外置左上

Motor external lower left / Motor external upper left

LP 电机外置左下 Motor external lower left

单位:Unit: mm



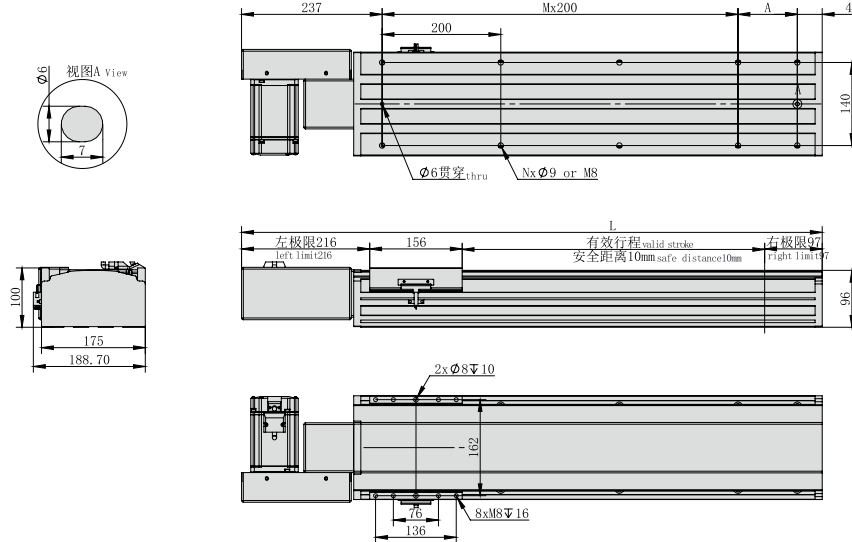
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	528	628	728	828	928	1028	1128	1228	1328	1428	1528	1628	1728	1828	1928	2028	2128	2228	2328	2428	2528	2628	2728	2828	2928	3028	3128	3228	3328	3428
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	13	13	14	14	15	15	16
KG	13	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

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



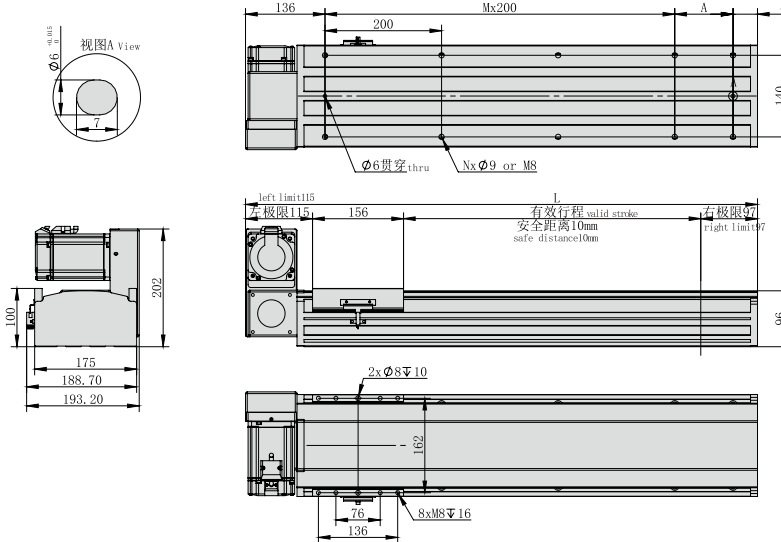
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	629	729	829	929	1029	1129	1229	1329	1429	1529	1629	1729	1829	1929	2029	2129	2229	2329	2429	2529	2629	2729	2829	2929	3029	3129	3229	3329	3429	3529
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	13	13	14	14	15	15	16
KG	13	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

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.

LU 电机外置左上 Motor external upper left

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	528	628	728	828	928	1028	1128	1228	1328	1428	1528	1628	1728	1828	1928	2028	2128	2228	2328	2428	2528	2628	2728	2828	2928	3028	3128	3228	3328	3428
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	13	13	14	14	15	15	16
KG	13	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

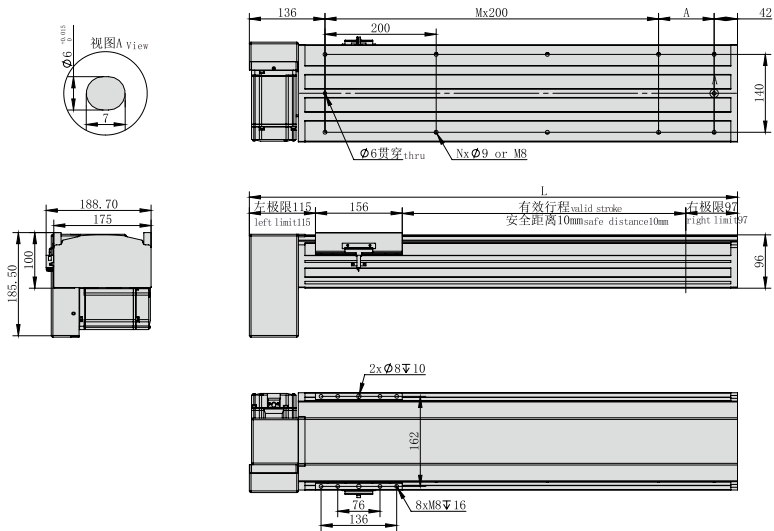
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.



电机外置右下/电机外置右上
Motor external lower right / Motor external upper right

RP 电机外置右下 Motor external lower right

单位:Unit: mm



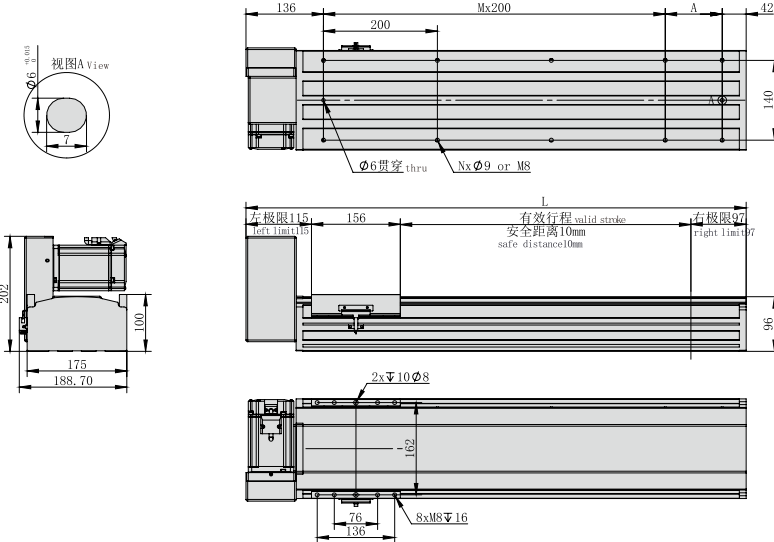
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	528	628	728	828	928	1028	1128	1228	1328	1428	1528	1628	1728	1828	1928	2028	2128	2228	2328	2428	2528	2628	2728	2828	2928	3028	3128	3228	3328	3428
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	13	13	14	14	15	15	16
KG	13	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

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.

RU 电机外置右上 Motor external upper right

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	528	628	728	828	928	1028	1128	1228	1328	1428	1528	1628	1728	1828	1928	2028	2128	2228	2328	2428	2528	2628	2728	2828	2928	3028	3128	3228	3328	3428
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	13	13	14	14	15	15	16
KG	13	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

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-E

HN B-E

HFR

HNR

HCR

HN B

HCB

HNT

XYZ

参考资料
Reference
data



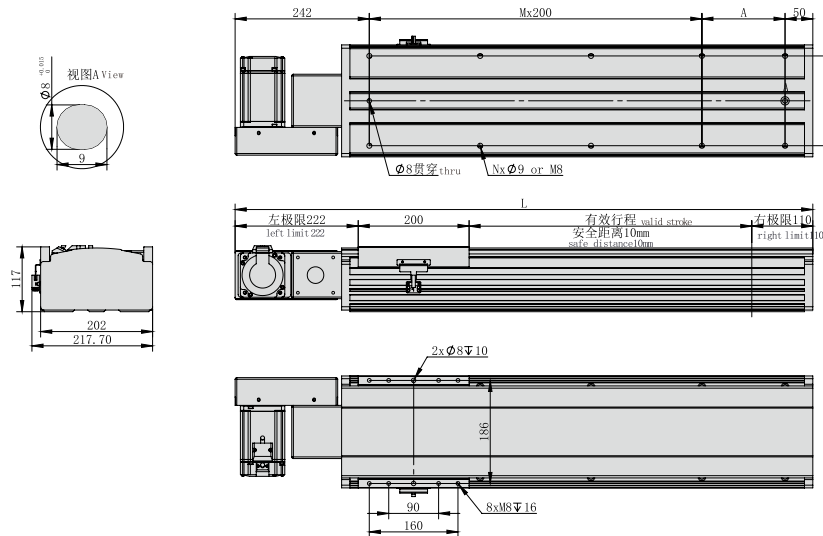


电机外置左侧/电机外置右侧

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	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	692	792	892	992	1092	1192	1292	1392	1492	1592	1692	1792	1892	1992	2092	2192	2292	2392	2492	2592	2692	2792	2892	2992	3092	3192	3292	3392	3492	3592
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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	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	13	13	14	14	15	15	16
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

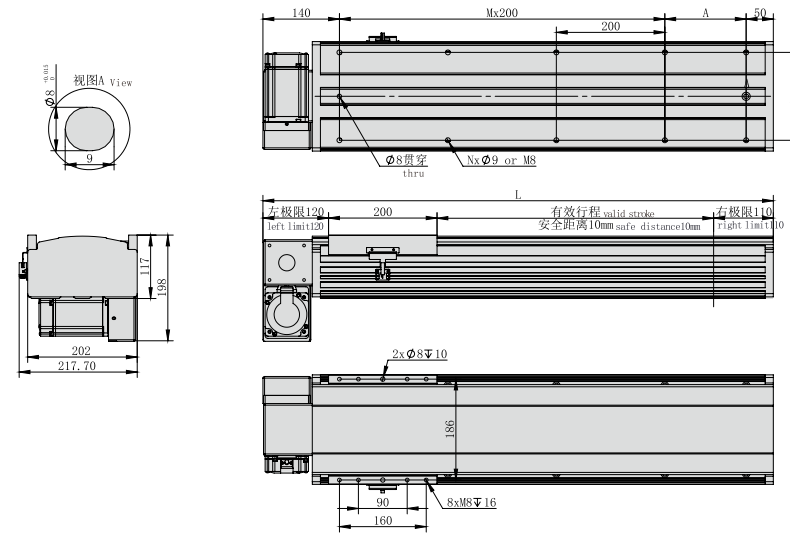
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左下/电机外置左上

Motor external lower left / Motor external upper left

LP 电机外置左下 Motor external lower left

单位:Unit: mm



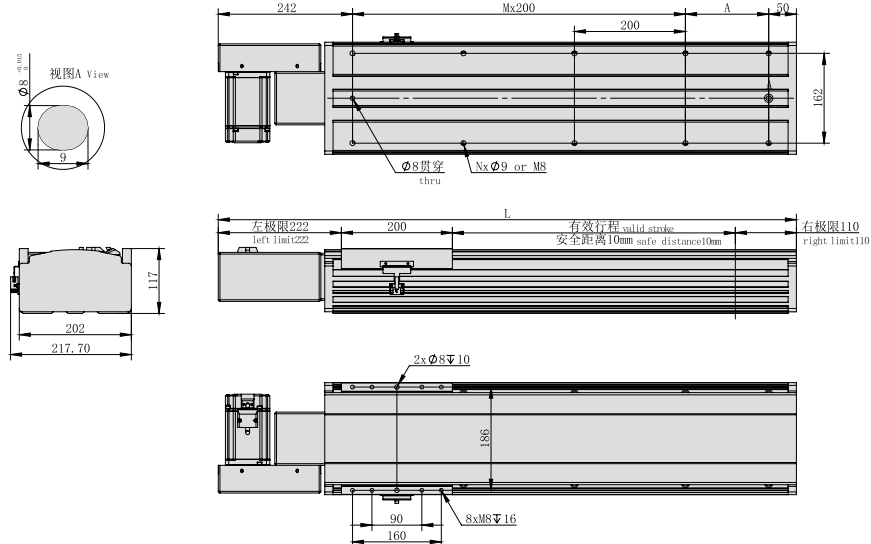
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	590	690	790	890	990	1090	1190	1290	1390	1490	1590	1690	1790	1890	1990	2090	2190	2290	2390	2490	2590	2690	2790	2890	2990	3090	3190	3290	3390	3490
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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	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	13	13	14	14	15	15	16
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

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



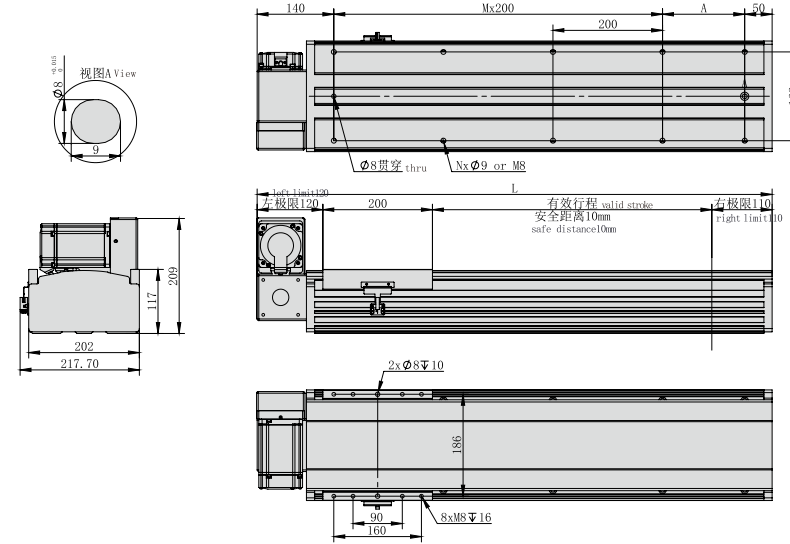
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	692	792	892	992	1092	1192	1292	1392	1492	1592	1692	1792	1892	1992	2092	2192	2292	2392	2492	2592	2692	2792	2892	2992	3092	3192	3292	3392	3492	3592
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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	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	13	13	14	14	15	15	16
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

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.

LU 电机外置左上 Motor external upper left

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	590	690	790	890	990	1090	1190	1290	1390	1490	1590	1690	1790	1890	1990	2090	2190	2290	2390	2490	2590	2690	2790	2890	2990	3090	3190	3290	3390	3490
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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	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	13	13	14	14	15	15	16
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

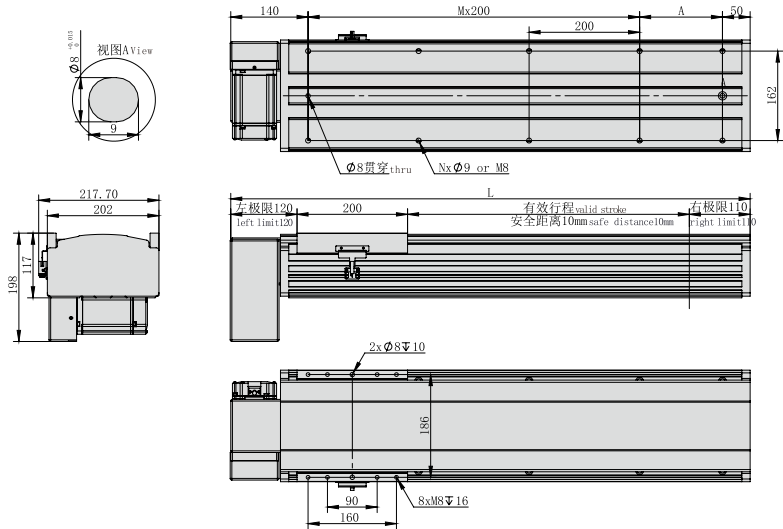
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.



电机外置右下/电机外置右上
Motor external lower right / Motor external upper right

RP 电机外置右下 Motor external lower right

单位:Unit: mm



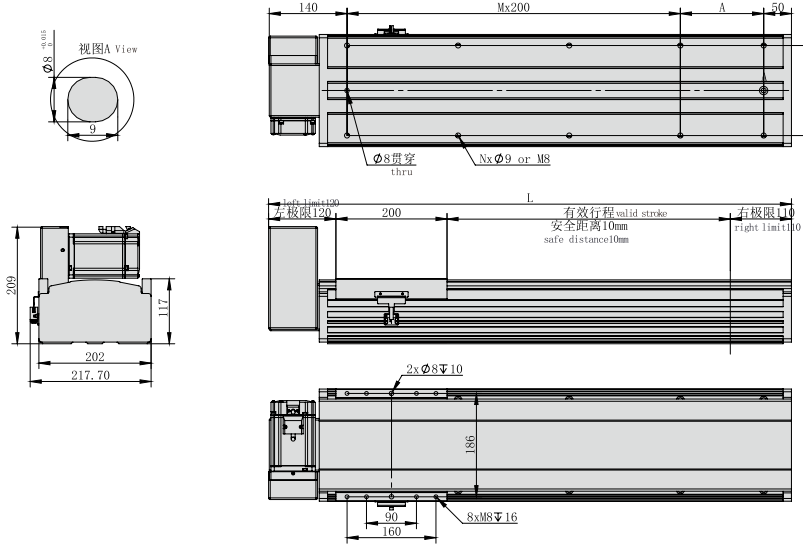
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	590	690	790	890	990	1090	1190	1290	1390	1490	1590	1690	1790	1890	1990	2090	2190	2290	2390	2490	2590	2690	2790	2890	2990	3090	3190	3290	3390	3490
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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	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	13	13	14	14	15	15	16
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

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.

RU 电机外置右上 Motor external upper right

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	590	690	790	890	990	1090	1190	1290	1390	1490	1590	1690	1790	1890	1990	2090	2190	2290	2390	2490	2590	2690	2790	2890	2990	3090	3190	3290	3390	3490
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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	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	13	13	14	14	15	15	16
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

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-E
HNB-E
HFR
HNR
HCR
HNB
HCB
HNT
XYZ
参考资料 Reference data



重复精度
Repeat Accuracy
 ± 0.04
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
3050mm

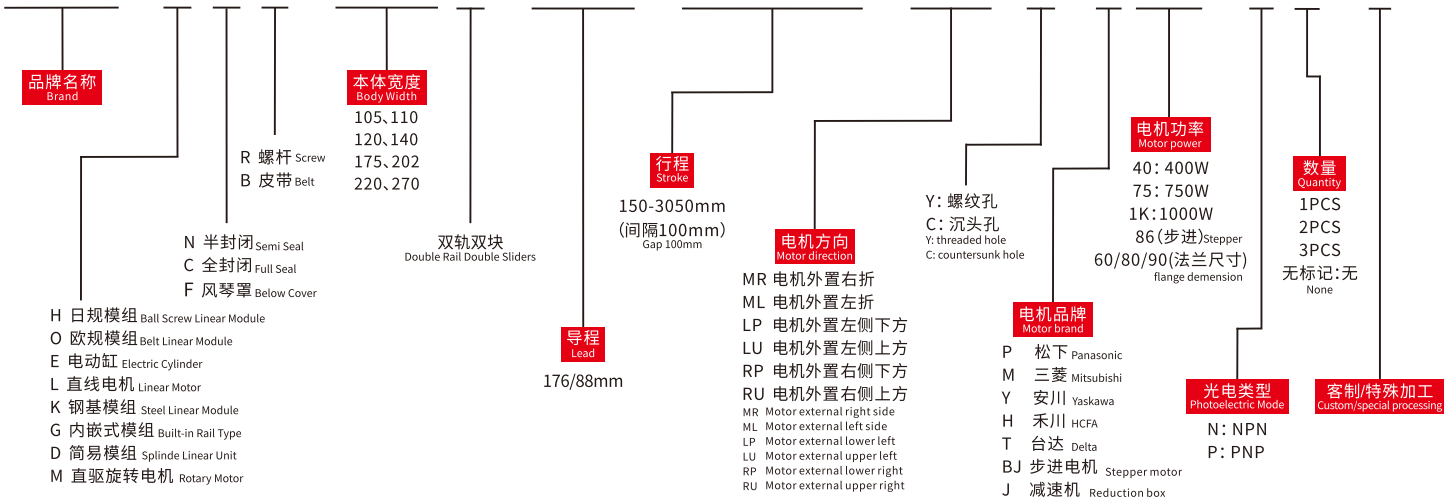
最高速度
Max speed
8800mm/s

马达容量
Motor output
1000W

直线滑轨
Linear guide
25X22-2支

型号表达方式 Ordering method

TPA-HNB-220D-176-L3050-MR-Y-P1K-N3-F



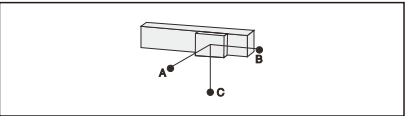
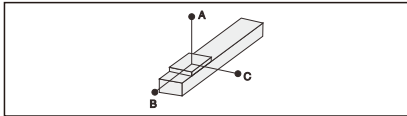
产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率 (W) Motor power (W)	1000	
	重复定位精度 (mm) Repeated positioning accuracy (mm)	± 0.04	
	减速比 (mm) Reduction ratio	1:1	1:2
	导程 (mm) Lead (mm)	176	88
	最高速度 (mm/s) Maximum speed (mm/s)	8800	
	电机额定转速 (RPM) Rated speed of motor (RPM)	3000	
	最大可搬重量 Maximum Payload	50	100
部品 Parts	标准行程 (mm) Stroke pitch (mm)	150~3050mm/100 间隔100 mm Pitch	
	底座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1	
使用环境 Operating environment	使用环境	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

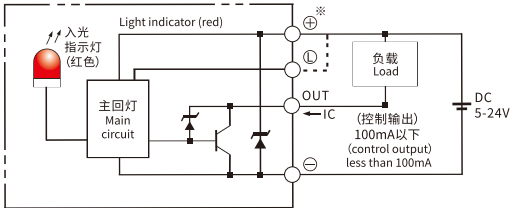


(单位Unit:mm)					(单位Unit:mm)				
水平安装 Horizontal installation		A	B	C	侧面安装 Side mounting		A	B	C
负载 Load	45kg	3444	1015	1358	负载 Load	45kg	1410	925	3435
	65kg	2460	725	970		65kg	1010	664	2455
	85kg	1800	550	740		85kg	770	500	1886

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)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

感应器连接图<原点及端点> Sensor layout



HNR-E
HNB-E
HFR
HNR
HCR
HNB
HC
HCB
HNT
XYZ
参考资料 Reference data

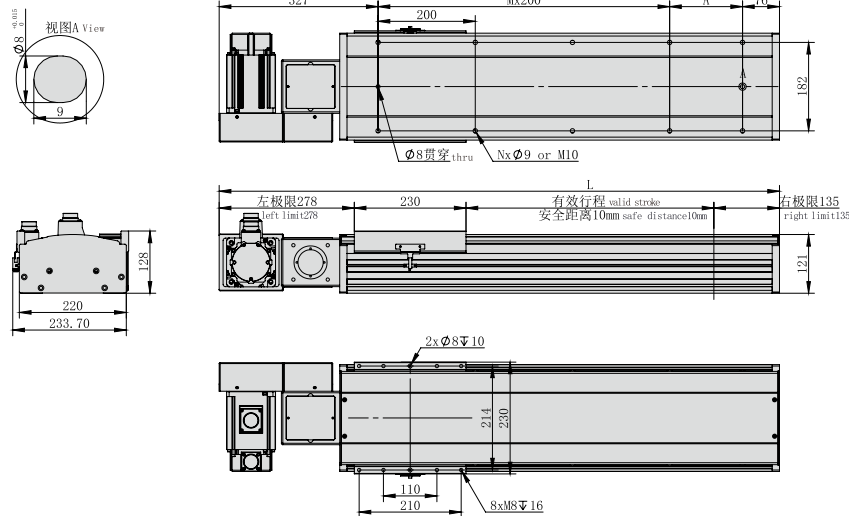


电机外置左侧/电机外置右侧

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	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	803	903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	2403	2503	2603	2703	2803	2903	3003	3103	3203	3303	3403	3503	3603	3703
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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	34	34	36
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
KG	26.5	28	29.5	31	32.5	34	35.5	37	38.5	40	41.5	43	44.5	46	47.5	49	50.5	52	53.5	55	56.5	58	59.5	61	62.5	64	65.5	67	68.5	70

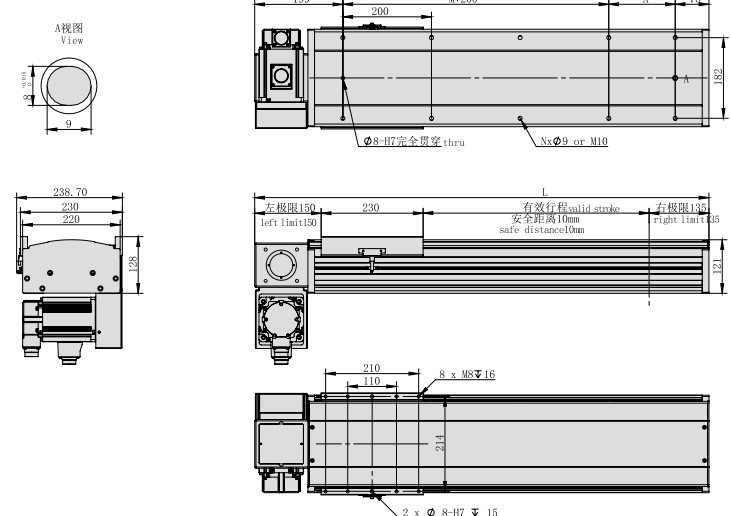
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左下/电机外置左上

Motor external lower left / Motor external upper left

LP 电机外置左下 Motor external lower left

单位:Unit: mm



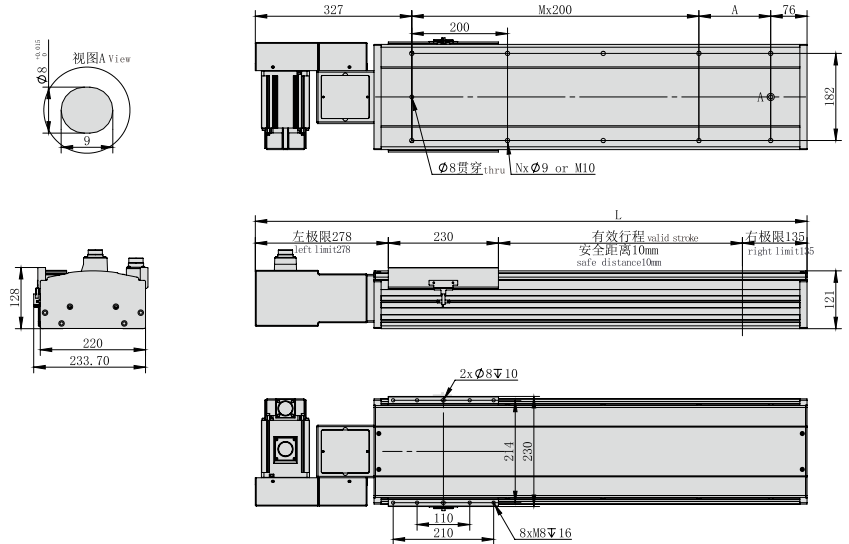
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	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	3575
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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	34	34	36
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
KG	26.5	28	29.5	31	32.5	34	35.5	37	38.5	40	41.5	43	44.5	46	47.5	49	50.5	52	53.5	55	56.5	58	59.5	61	62.5	64	65.5	67	68.5	70

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



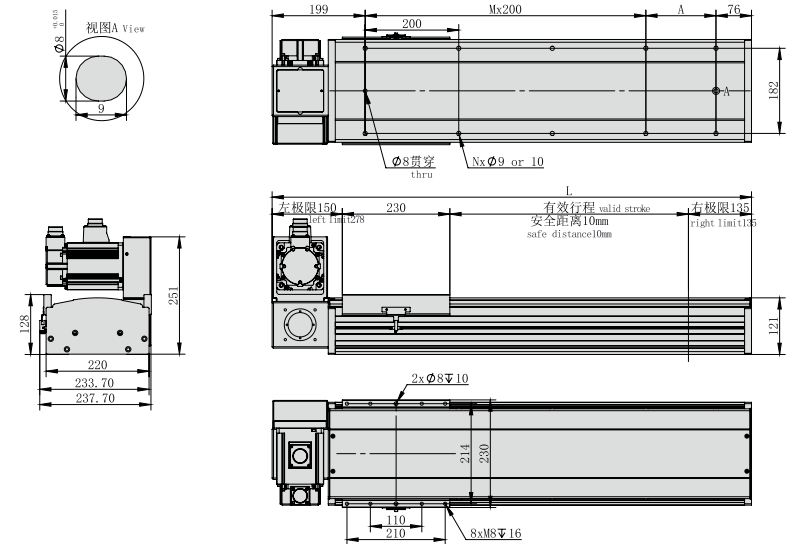
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	803	903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	2403	2503	2603	2703	2803	2903	3003	3103	3203	3303	3403	3503	3603	3703
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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	34	34	36
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
KG	26.5	28	29.5	31	32.5	34	35.5	37	38.5	40	41.5	43	44.5	46	47.5	49	50.5	52	53.5	55	56.5	58	59.5	61	62.5	64	65.5	67	68.5	70

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.

LU 电机外置左上 Motor external upper left

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	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	3575
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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	34	34	36
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
KG	26.5	28	29.5	31	32.5	34	35.5	37	38.5	40	41.5	43	44.5	46	47.5	49	50.5	52	53.5	55	56.5	58	59.5	61	62.5	64	65.5	67	68.5	70

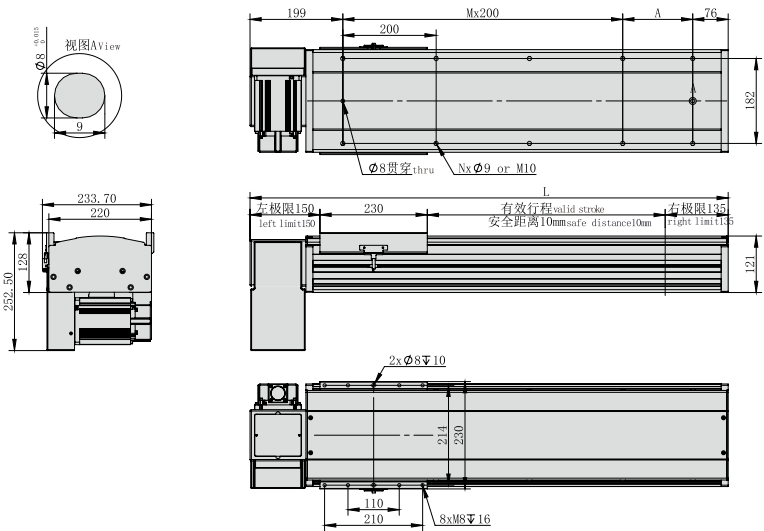
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.



电机外置右下/电机外置右上
Motor external lower right / Motor external upper right

RP 电机外置右下 Motor external lower right

单位:Unit: mm



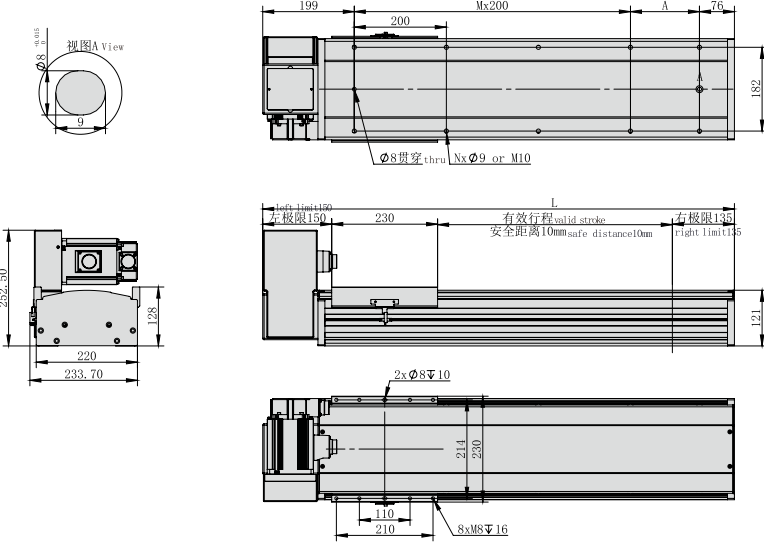
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	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	3575
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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	34	34	36
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
KG	26.5	28	29.5	31	32.5	34	35.5	37	38.5	40	41.5	43	44.5	46	47.5	49	50.5	52	53.5	55	56.5	58	59.5	61	62.5	64	65.5	67	68.5	70

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.

RU 电机外置右上 Motor external upper right

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	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	3575
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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	34	34	36
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
KG	26.5	28	29.5	31	32.5	34	35.5	37	38.5	40	41.5	43	44.5	46	47.5	49	50.5	52	53.5	55	56.5	58	59.5	61	62.5	64	65.5	67	68.5	70

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-E

HNB-E

HFR

HNR

HCR

HNB

HC

HNT

XYZ

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 3050mm

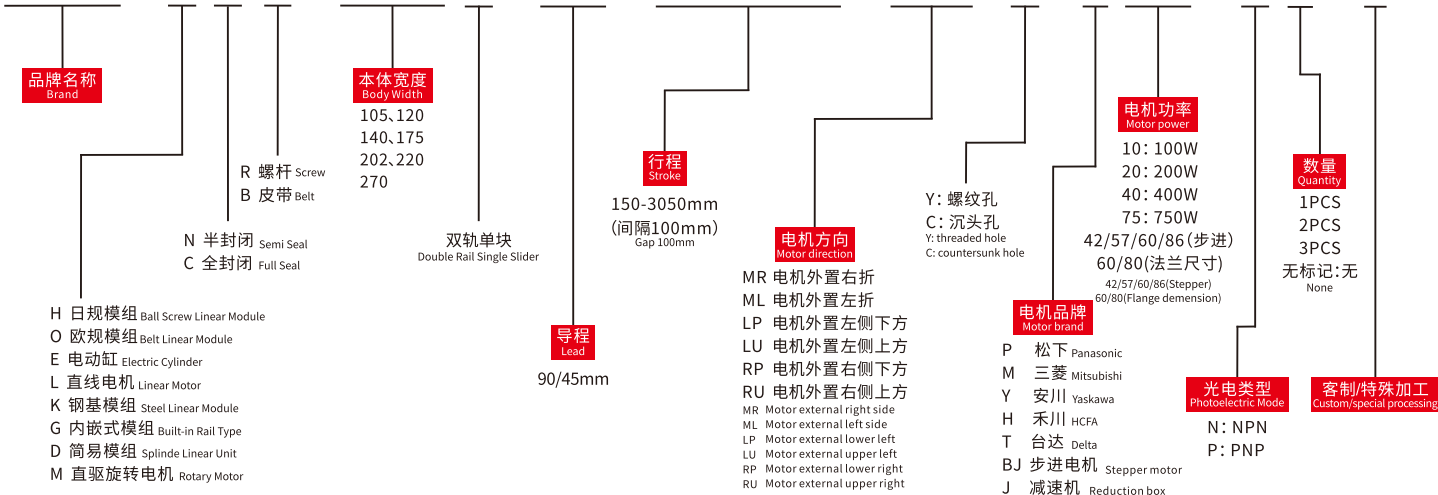
最高速度
Max speed 4500mm/s

马达容量
Motor output 200W

直线滑轨
Linear guide 15X12.5-2支

型号表达方式 Ordering method

TPA-HCB-105D-90-L3050-MR-Y-P20-N3-F



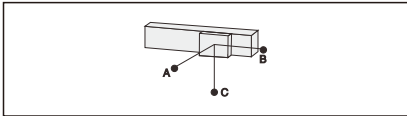
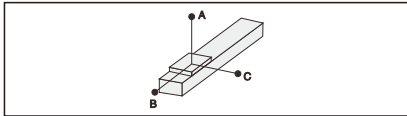
产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率 (W) Motor power (W)	200	
	重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.04	
	减速比 (mm) Reduction ratio	1:2	1:1
	导程 (mm) Lead (mm)	45	90
	最高速度 (mm/s) Maximum speed (mm/s)	4500	
	电机额定转速 (RPM) Rated speed of motor (RPM)	3000	
	最大可搬重量 Maximum Payload	9	18
部品 Parts	标准行程 (mm) Stroke pitch (mm)	150~3050mm/50间隔 100 mm Pitch	
	底座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1	
使用环境 Operating environment	使用环境	0~40℃, 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.

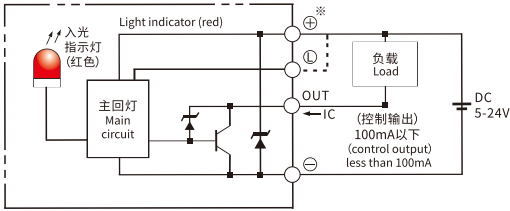
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be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



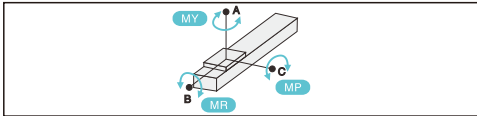
(单位Unit:mm)					(单位Unit:mm)				
水平安装 Horizontal installation		A	B	C	侧面安装 Side mounting		A	B	C
负载 Load	5kg	495	152	128	负载 Load	4kg	162	192	625
	8kg	301	91	77		7kg	89	106	347
	10kg	236	71	60		10kg	60	71	236

感应器连接图<原点及端点> Sensor layout



HNR
HCR
HNB
HC B
HNT
XYZ
参考资料 Reference data

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

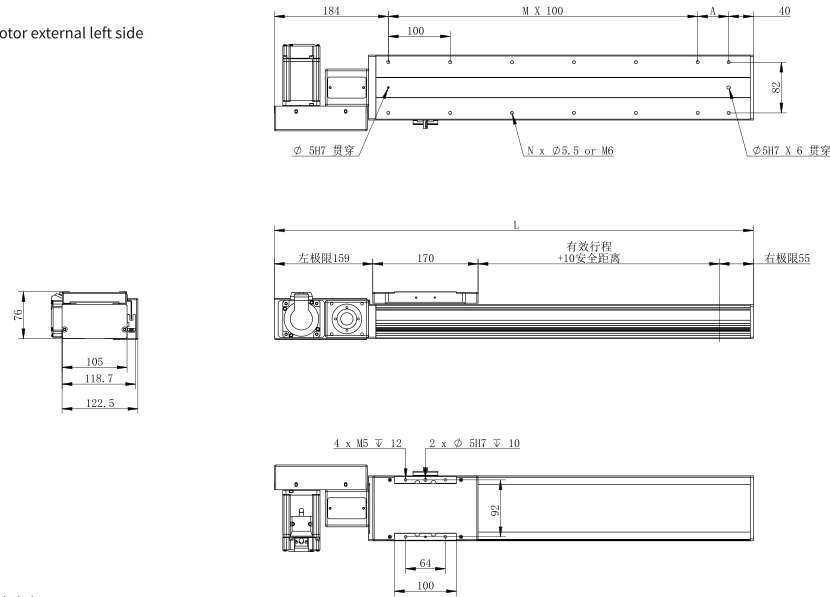
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD082G1U	MBDHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal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

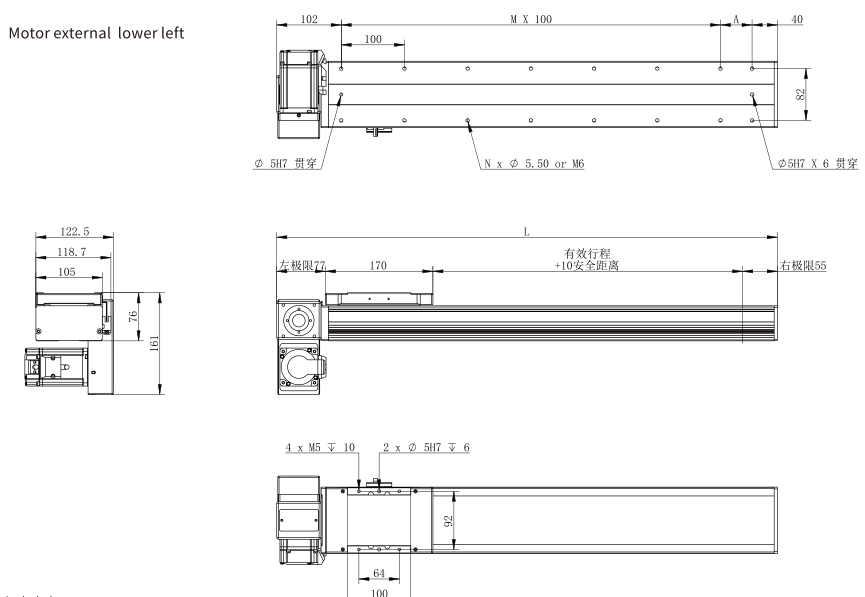
有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	524	624	724	824	924	1024	1124	1224	1324	1424	1524	1624	1724	1824	1924	2024	2124	2224	2324	2424	2524	2624	2724	2824	2924	3024	3124	3224	3324	3424
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
M	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
N	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
KG	4.8	5.5	6.2	6.9	7.6	8.3	9	9.7	10.4	11.1	11.8	12.5	13.2	13.9	14.6	15.3	16	16.7	17.4	18.1	18.8	19.5	20.2	20.9	21.6	22.3	23	23.7	24.4	25.1

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.

电机外置左下/电机外置左上

Motor external lower left / Motor external upper left

LP 电机外置左下 Motor external lower left



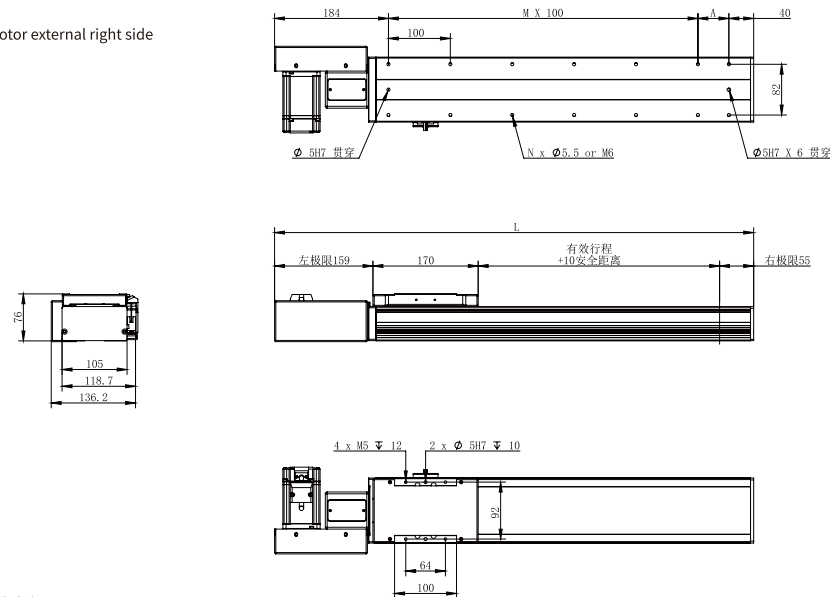
单位:Unit: mm

*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	442	542	642	742	842	942	1042	1142	1242	1342	1442	1542	1642	1742	1842	2024	2042	2142	2242	2342	2442	2542	2642	2742	2842	2942	3042	3142	3242	3342
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
M	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
N	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
KG	4.8	5.5	6.2	6.9	7.6	8.3	9	9.7	10.4	11.1	11.8	12.5	13.2	13.9	14.6	15.3	16	16.7	17.4	18.1	18.8	19.5	20.2	20.9	21.6	22.3	23	23.7	24.4	25.1

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



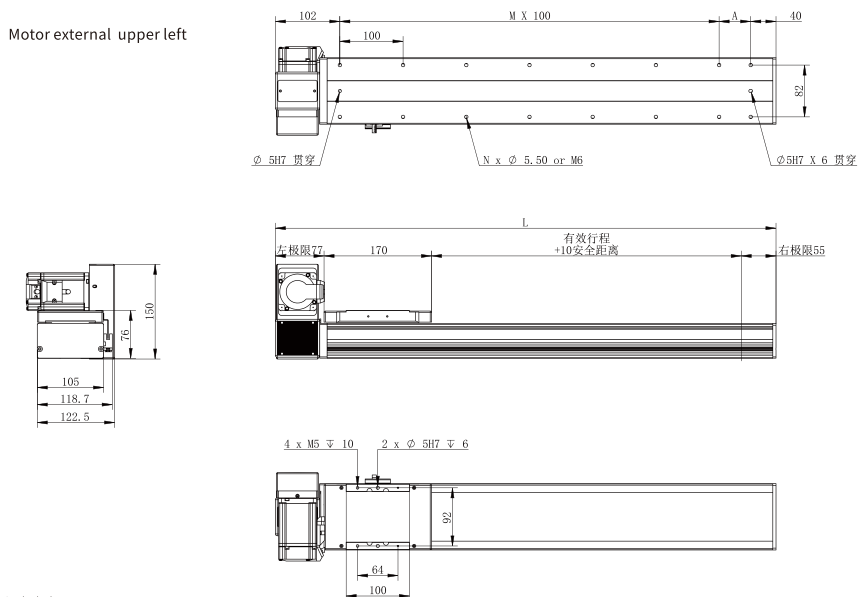
单位:Unit: mm

*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	524	624	724	824	924	1024	1124	1224	1324	1424	1524	1624	1724	1824	1924	2024	2124	2224	2324	2424	2524	2624	2724	2824	2924	3024	3124	3224	3324	3424
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
M	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
N	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
KG	4.8	5.5	6.2	6.9	7.6	8.3	9	9.7	10.4	11.1	11.8	12.5	13.2	13.9	14.6	15.3	16	16.7	17.4	18.1	18.8	19.5	20.2	20.9	21.6	22.3	23	23.7	24.4	25.1

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.

LU 电机外置左上 Motor external upper left



单位:Unit: mm

*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	442	542	642	742	842	942	1042	1142	1242	1342	1442	1542	1642	1742	1842	2024	2042	2142	2242	2342	2442	2542	2642	2742	2842	2942	3042	3142	3242	3342
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
M	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
N	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
KG	4.8	5.5	6.2	6.9	7.6	8.3	9	9.7	10.4	11.1	11.8	12.5	13.2	13.9	14.6	15.3	16	16.7	17.4	18.1	18.8	19.5	20.2	20.9	21.6	22.3	23	23.7	24.4	25.1

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.

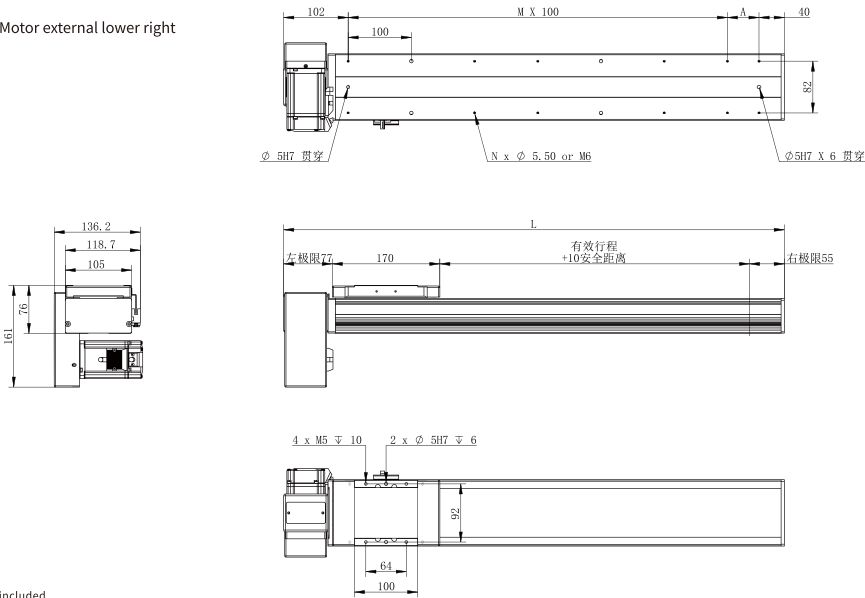


电机外置右下/电机外置右上

Motor external lower right /Motor external upper right

RP

电机外置右下 Motor external lower right



单位:Unit:mm

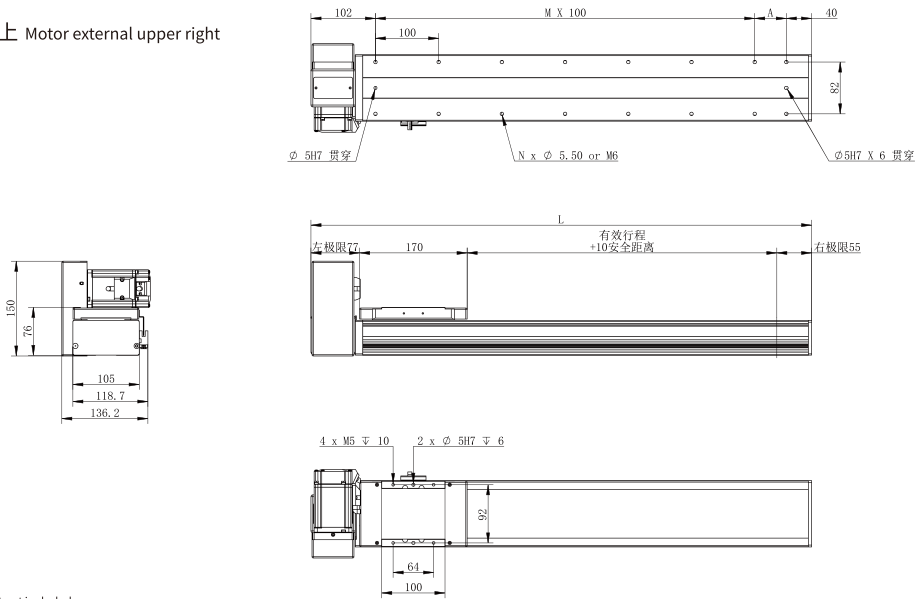
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	442	542	642	742	842	942	1042	1142	1242	1342	1442	1542	1642	1742	1842	2024	2042	2142	2242	2342	2442	2542	2642	2742	2842	2942	3042	3142	3242	3342
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
M	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
N	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
KG	4.8	5.5	6.2	6.9	7.6	8.3	9	9.7	10.4	11.1	11.8	12.5	13.2	13.9	14.6	15.3	16	16.7	17.4	18.1	18.8	19.5	20.2	20.9	21.6	22.3	23	23.7	24.4	25.1

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.

RU

电机外置右上 Motor external upper right



单位:Unit:mm

*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	442	542	642	742	842	942	1042	1142	1242	1342	1442	1542	1642	1742	1842	2024	2042	2142	2242	2342	2442	2542	2642	2742	2842	2942	3042	3142	3242	3342
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
M	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
N	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
KG	4.8	5.5	6.2	6.9	7.6	8.3	9	9.7	10.4	11.1	11.8	12.5	13.2	13.9	14.6	15.3	16	16.7	17.4	18.1	18.8	19.5	20.2	20.9	21.6	22.3	23	23.7	24.4	25.1

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.

MEMO

HNR
HCR
HNB
HCB
HNT
XYZ
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 3050mm

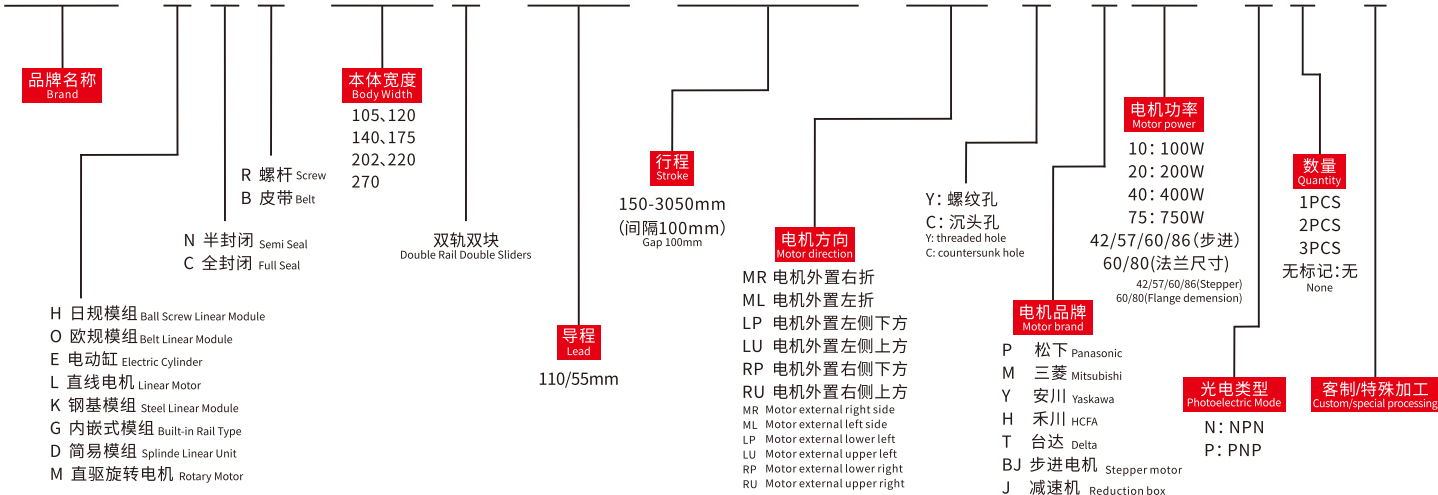
最高速度
Max speed 5500mm/s

马达容量
Motor output 400W

直线滑轨
Linear guide 15X12.5-2支

型号表达方式 Ordering method

TPA-HCB-120D-110-L3050-MR-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	
	重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.04	
	减速比 (mm) Reduction ratio	1:1	1:2
	导程 (mm) Lead (mm)	110	55
	最高速度 (mm/s) Maximum speed (mm/s)	5500	
	电机额定转速 (RPM) Rated speed of motor (RPM)	3000	
部品 Parts	最大可搬重量 Maximum Payload	14	28
	标准行程 (mm) Stroke pitch (mm)	150~3050mm/100 间隔 100 mm Pitch	
	底座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1	
使用环境 Operating environment	使用环境	0~40℃, 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.

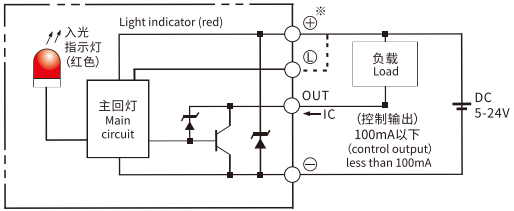
容许负载力矩表 N.m Allowable overhang

(单位Unit:mm)					(单位Unit:mm)				
水平安装 Horizontal installation		A	B	C	侧面安装 Side mounting		A	B	C
负载 Load	5kg	1794	688	538	负载 Load	5kg	348	446	1170
	10kg	858	324	253		10kg	285	365	961
	20kg	670	251	197		20kg	197	251	670

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)	400	220	HG-KN43J-S100	MR-JE-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMF042L1U2M	MBDLN25SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECM-B3M-C20604RS1	ASD-B3-0421-L

感应器连接图<原点及端点> Sensor layout



HNR
HCR
HNB
HCB
HNT
XYZ
参考资料 Reference data

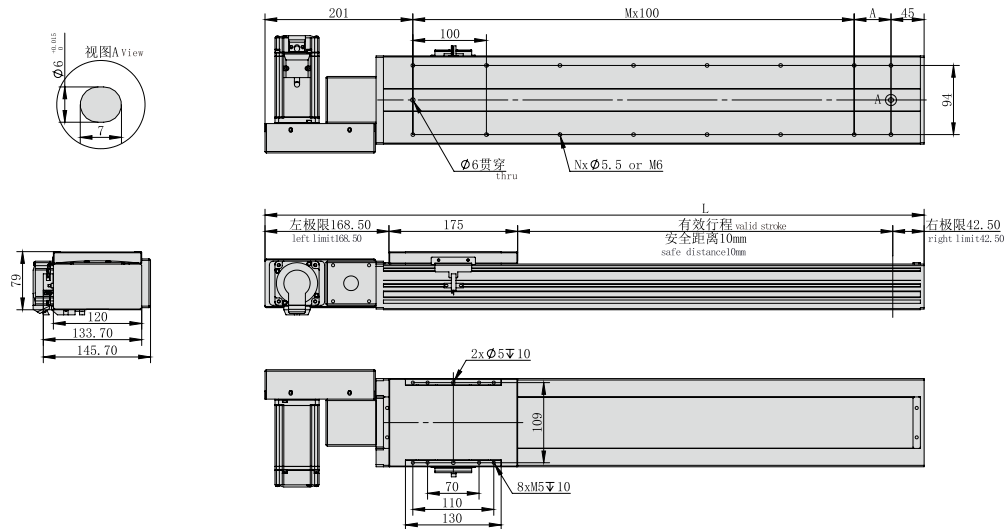


电机外置左侧/电机外置右侧

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	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	546	646	746	846	946	1046	1146	1246	1346	1446	1546	1646	1746	1846	1946	2046	2146	2246	2346	2446	2546	2646	2746	2846	2946	3046	3146	3246	3346	3446
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

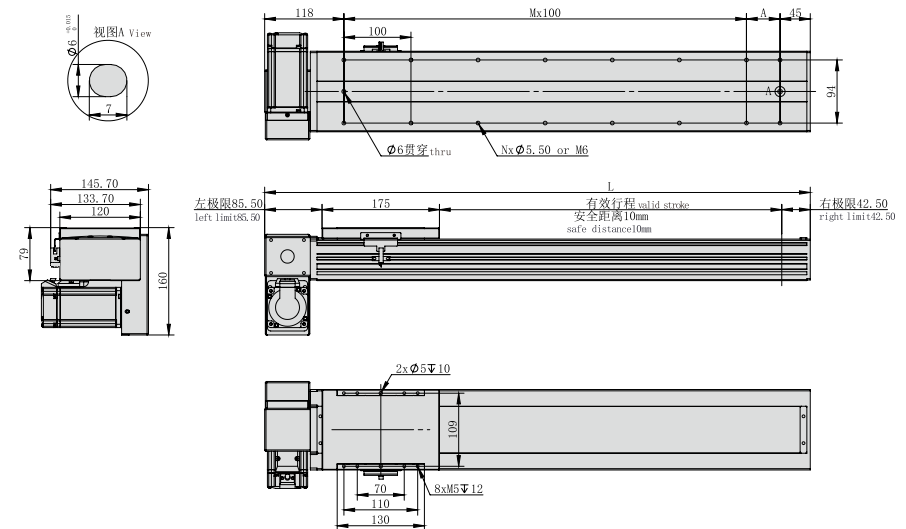
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左下/电机外置左上

Motor external lower left /Motor external upper left

LP 电机外置左下 Motor external lower left

单位:Unit: mm



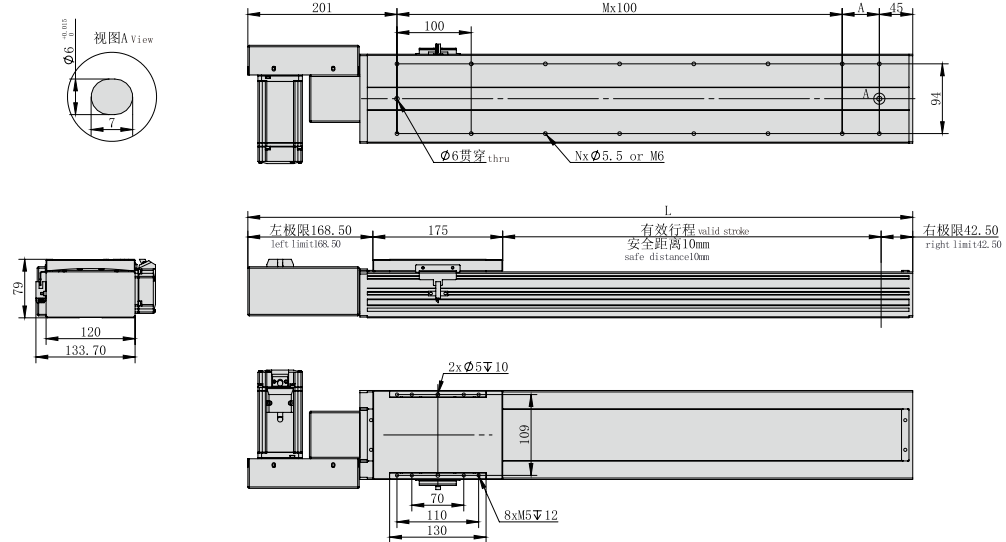
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	463	563	663	763	863	963	1063	1163	1263	1363	1463	1563	1663	1763	1863	1963	2063	2163	2263	2363	2463	2563	2663	2763	2863	2963	3063	3163	3263	3363
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

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



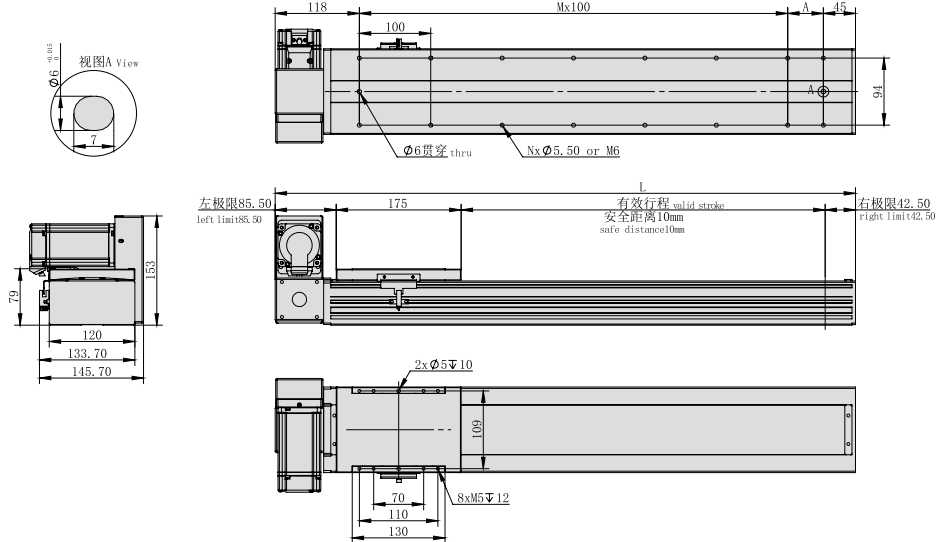
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	546	646	746	846	946	1046	1146	1246	1346	1446	1546	1646	1746	1846	1946	2046	2146	2246	2346	2446	2546	2646	2746	2846	2946	3046	3146	3246	3346	3446
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

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.

LU 电机外置左上 Motor external upper left

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	463	563	663	763	863	963	1063	1163	1263	1363	1463	1563	1663	1763	1863	1963	2063	2163	2263	2363	2463	2563	2663	2763	2863	2963	3063	3163	3263	3363
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

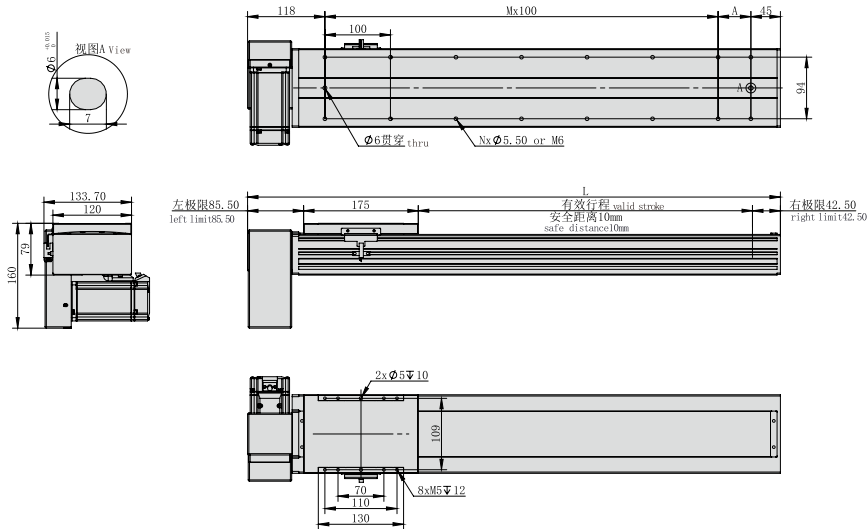
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.



电机外置右下/电机外置右上
Motor external lower right /Motor external upper right

RP 电机外置右下 Motor external lower right

单位:Unit:mm



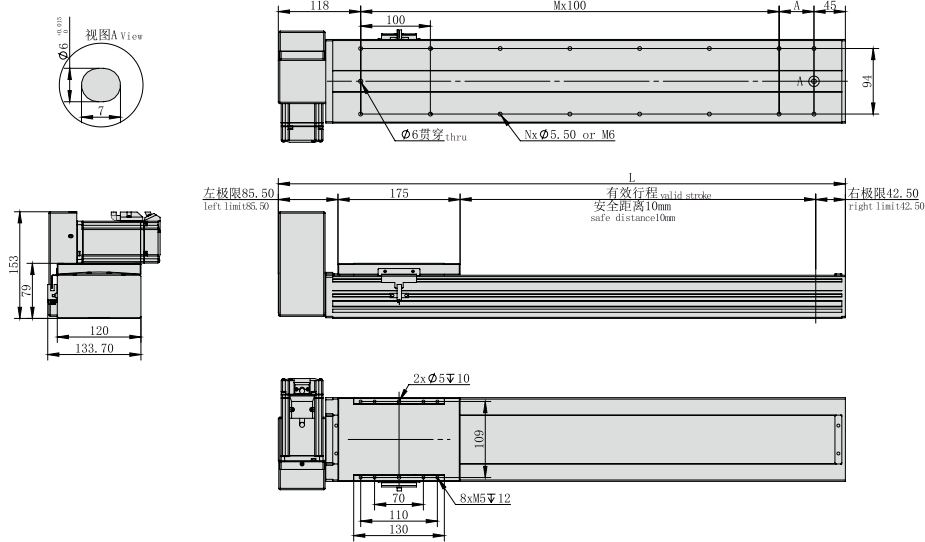
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	463	563	663	763	863	963	1063	1163	1263	1363	1463	1563	1663	1763	1863	1963	2063	2163	2263	2363	2463	2563	2663	2763	2863	2963	3063	3163	3263	3363
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

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.

RU 电机外置右上 Motor external upper right

单位:Unit:mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	463	563	663	763	863	963	1063	1163	1263	1363	1463	1563	1663	1763	1863	1963	2063	2163	2263	2363	2463	2563	2663	2763	2863	2963	3063	3163	3263	3363
A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KG	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

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

HC B

HNT

XYZ

参考资料
Reference
data



重复精度
Repeat Accuracy
 ± 0.04
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
3050mm

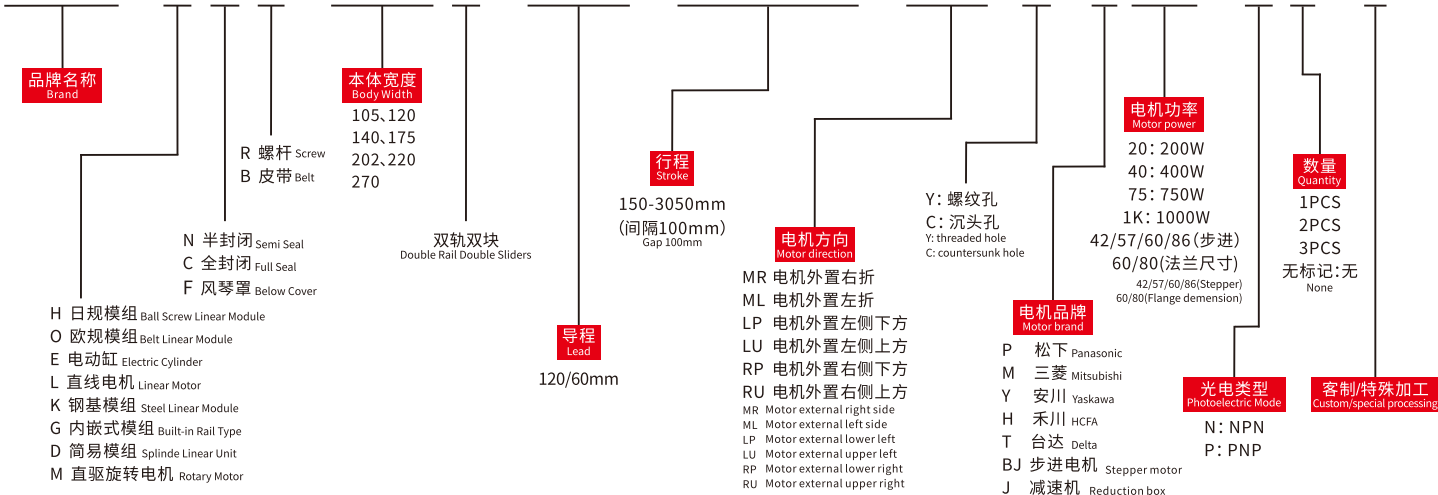
最高速度
Max speed
6000mm/s

马达容量
Motor output
400W

直线滑轨
Linear guide
15X12.5-2支

型号表达方式 Ordering method

TPA-HCB-140D-120-L3050-MR-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	
	重复定位精度 (mm) Repeated positioning accuracy (mm)	± 0.04	
	减速比 (mm) Reduction ratio	1:1	1:2
	导程 (mm) Lead (mm)	120	60
	最高速度 (mm/s) Maximum speed (mm/s)	6000	
	电机额定转速 (RPM) Rated speed of motor (RPM)	3000	
	最大可搬重量 Maximum Payload	18	36
部品 Parts	标准行程 (mm) Stroke pitch (mm)	150~3050mm/100 间隔100 mm Pitch	
	底座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1	
使用环境 Operating environment	使用环境	0~40℃, 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.

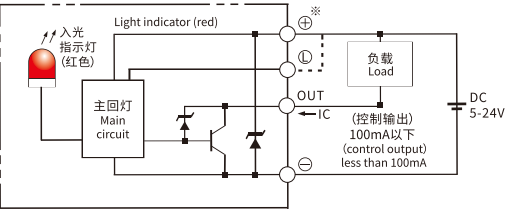
容许负载力矩表 N.m Allowable overhang

(单位Unit:mm)					(单位Unit:mm)				
水平安装 Horizontal installation		A	B	C	侧面安装 Side mounting		A	B	C
负载 Load	5kg	2629	1279	1150	负载 Load	5kg	1365	1219	2339
	10kg	1559	719	712		10kg	699	649	1319
	20kg	1209	475	434		20kg	379	385	935
	32kg	766	310	288		32kg	199	220	600

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)	400	220	HG-KN43J-S100	MR-JE-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMF042L1U2M	MBDLN25SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECM-B3M-C20604RS1	ASD-B3-0421-L

感应器连接图<原点及端点> Sensor layout



HNR
HCR
HNB
HCB
HNT
XYZ
参考资料 Reference data

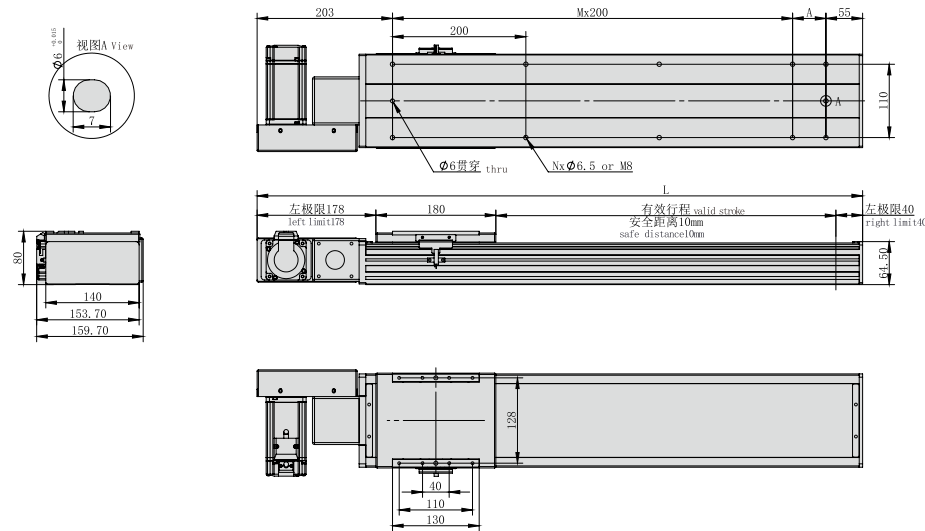


电机外置左侧/电机外置右侧

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	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	558	658	758	858	958	1058	1158	1258	1358	1458	1558	1658	1758	1858	1958	2058	2158	2258	2358	2458	2558	2658	2758	2858	2958	3058	3158	3258	3358	3458
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
N	6	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
M	1	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	15	15
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

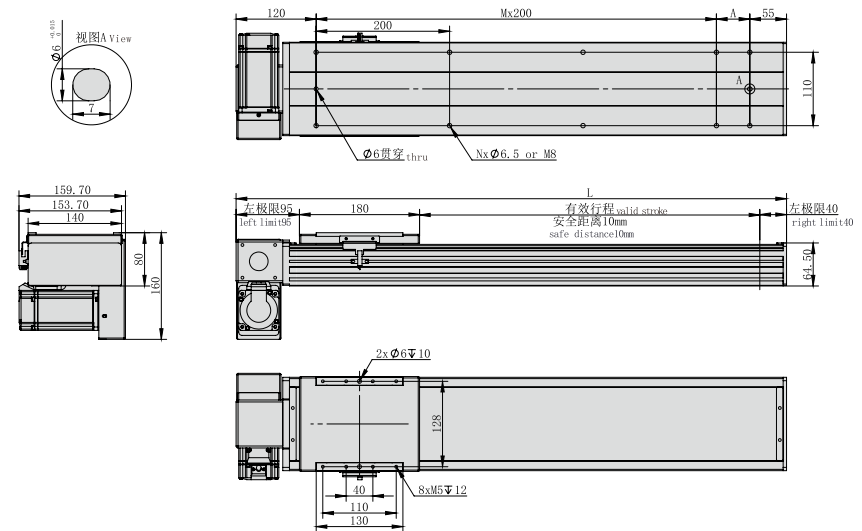
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左下/电机外置左上

Motor external lower left / Motor external upper left

LP 电机外置左下 Motor external lower left

单位:Unit: mm



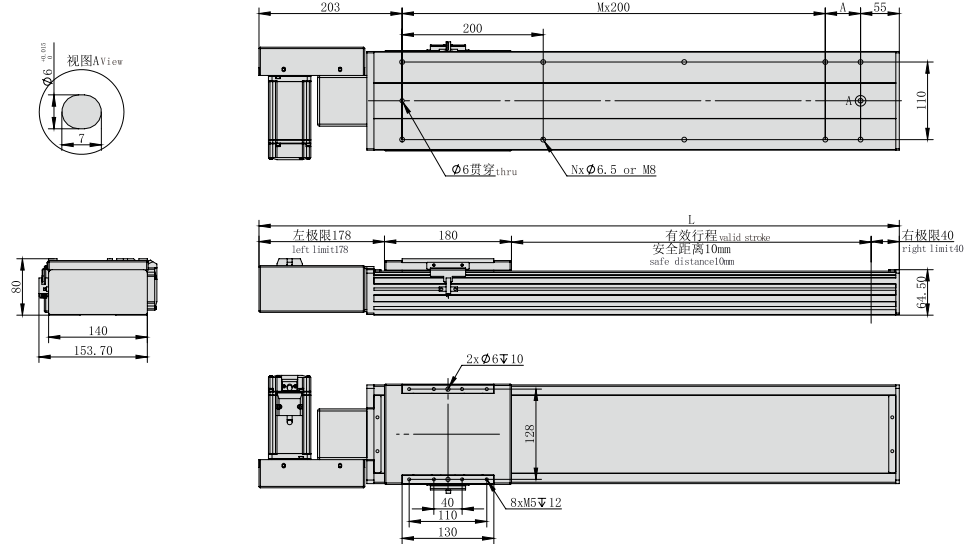
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	475	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
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
N	6	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
M	1	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	15	15
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

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



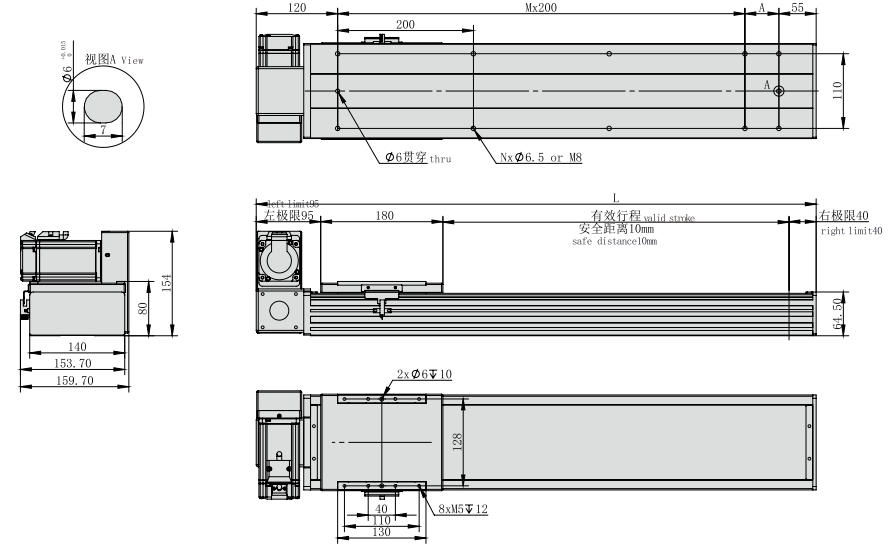
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	558	658	758	858	958	1058	1158	1258	1358	1458	1558	1658	1758	1858	1958	2058	2158	2258	2358	2458	2558	2658	2758	2858	2958	3058	3158	3258	3358	3458
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
N	6	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
M	1	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	15	15
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

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.

LU 电机外置左上 Motor external upper left

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	475	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
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
N	6	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
M	1	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	15	15
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

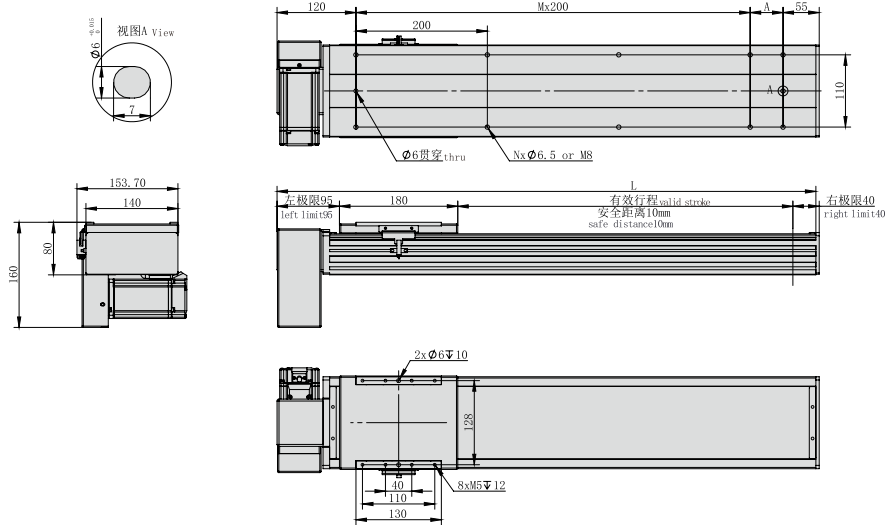
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.



电机外置右下/电机外置右上
Motor external lower right /Motor external upper right

RP 电机外置右下 Motor external lower right

单位:Unit: mm



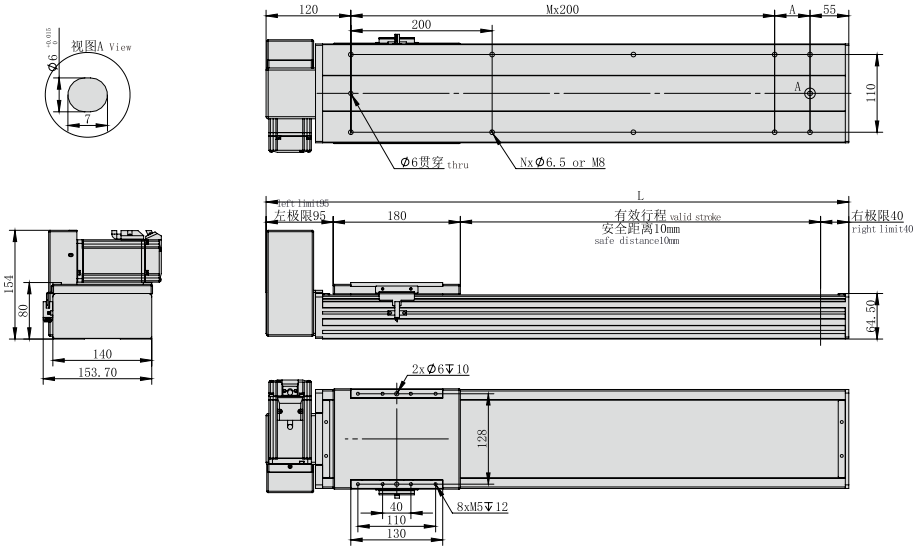
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	475	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
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
N	6	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
M	1	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	15	15
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

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.

RU 电机外置右上 Motor external upper right

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	475	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
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
N	6	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
M	1	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	15	15
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

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



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 3050mm

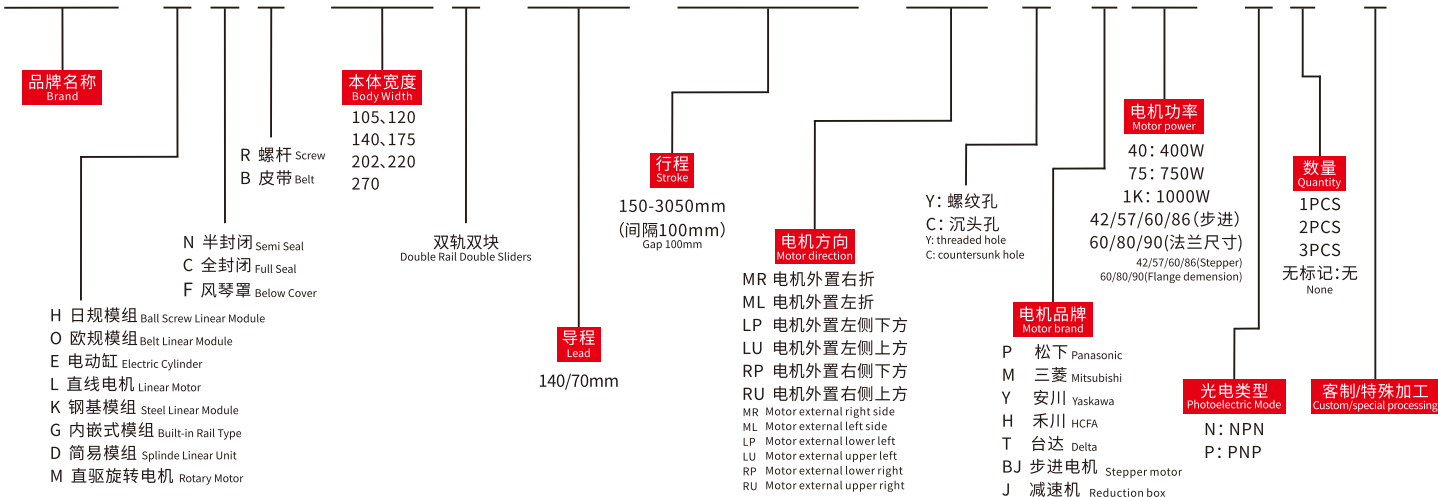
最高速度
Max speed 7000mm/s

马达容量
Motor output 750W

直线滑轨
Linear guide 15X12.5-2支

型号表达方式 Ordering method

TPA-HCB-175D-140-L3050-MR-Y-P75-N3-F



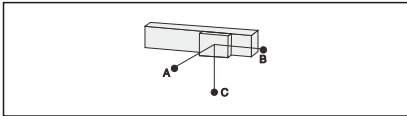
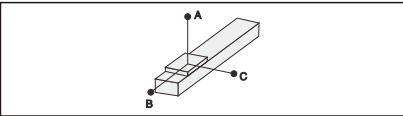
产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率 (W) Motor power (W)	750	
	重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.04	
	减速比 (mm) Reduction ratio	1:1	1:2
	导程 (mm) Lead (mm)	140	70
	最高速度 (mm/s) Maximum speed (mm/s)	7000	
	电机额定转速 (RPM) Rated speed of motor (RPM)	3000	
	最大可搬重量 Maximum Payload	30	60
部品 Parts	标准行程 (mm) Stroke pitch (mm)	150~3050mm/100 间隔100 mm Pitch	
	底座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1	
	使用环境 Operating environment	0~40℃, 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



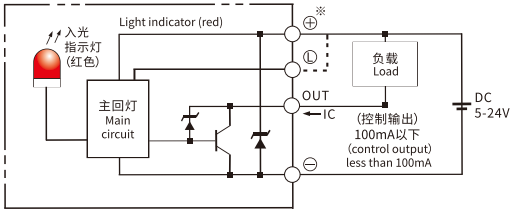
水平安装 Horizontal installation		A	B	C
负载 Load	10kg	2942	1133	1033
	20kg	1430	547	498
	30kg	926	350	320
	45kg	588	219	201

侧面安装 Side mounting		A	B	C
负载 Load	15kg	676	742	1933
	25kg	390	428	1127
	35kg	269	294	781
	45kg	201	219	588

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)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

感应器连接图<原点及端点> Sensor layout



HNR
HCR
HNB
HCB
HNT
XYZ
参考资料 Reference data

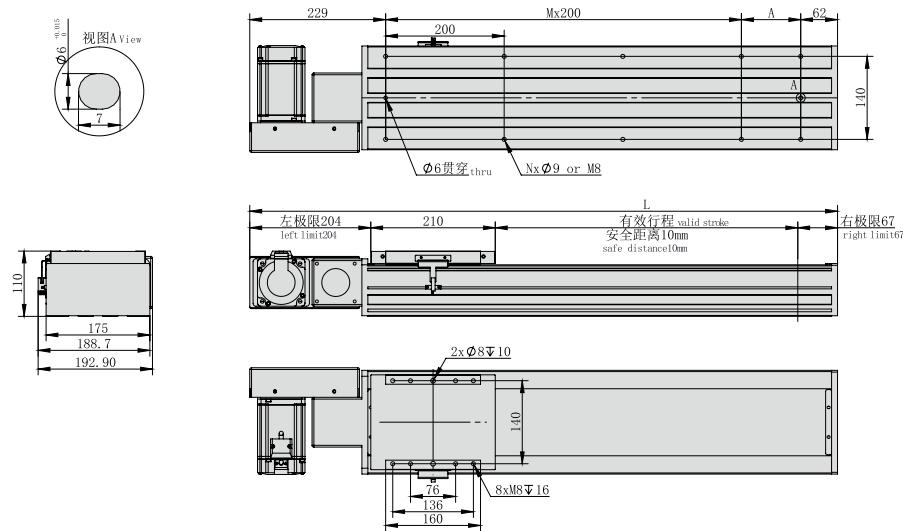


电机外置左侧/电机外置右侧

Motor external left side / Motor external right side

ML 电机外置左侧 Motor external left side

单位:Unit: mm



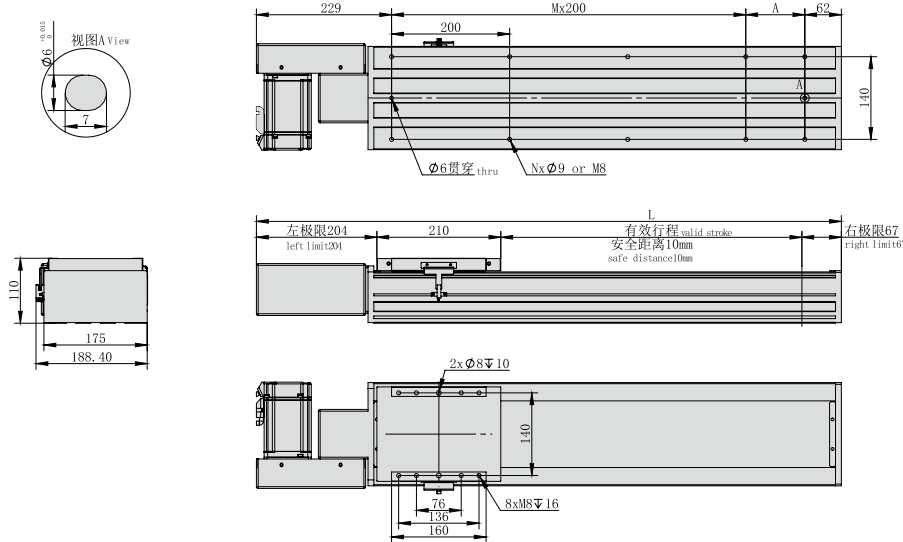
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	641	741	841	941	1041	1141	1241	1341	1441	1541	1641	1741	1841	1941	2041	2141	2241	2341	2441	2541	2641	2741	2841	2941	3041	3141	3241	3341	3441	3541
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	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
KG	10.6	11.6	12.6	13.6	14.6	15.6	16.6	17.6	18.6	19.6	20.6	21.6	22.6	23.6	24.6	25.6	26.6	27.6	28.6	29.6	30.6	31.6	32.6	33.6	34.6	35.6	36.6	37.6	38.6	39.6

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	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	641	741	841	941	1041	1141	1241	1341	1441	1541	1641	1741	1841	1941	2041	2141	2241	2341	2441	2541	2641	2741	2841	2941	3041	3141	3241	3341	3441	3541
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	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
KG	10.6	11.6	12.6	13.6	14.6	15.6	16.6	17.6	18.6	19.6	20.6	21.6	22.6	23.6	24.6	25.6	26.6	27.6	28.6	29.6	30.6	31.6	32.6	33.6	34.6	35.6	36.6	37.6	38.6	39.6

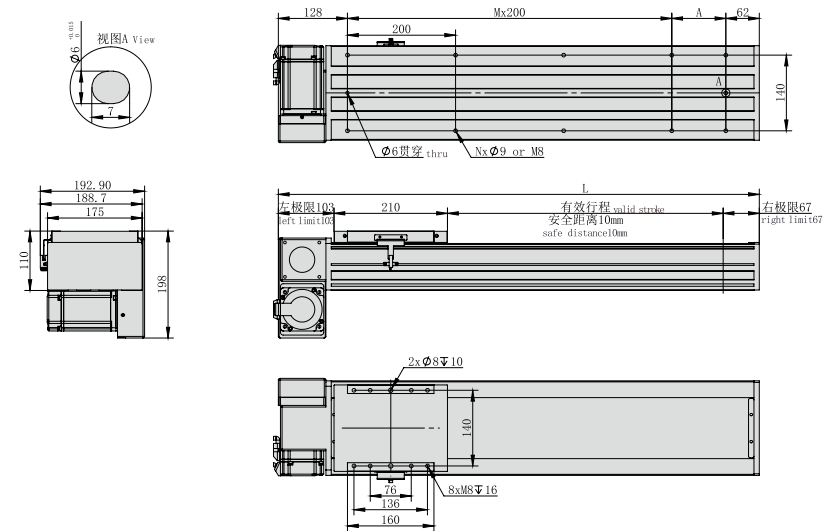
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左下/电机外置左上

Motor external lower left / Motor external upper left

LP 电机外置左下 Motor external lower left

单位:Unit: mm



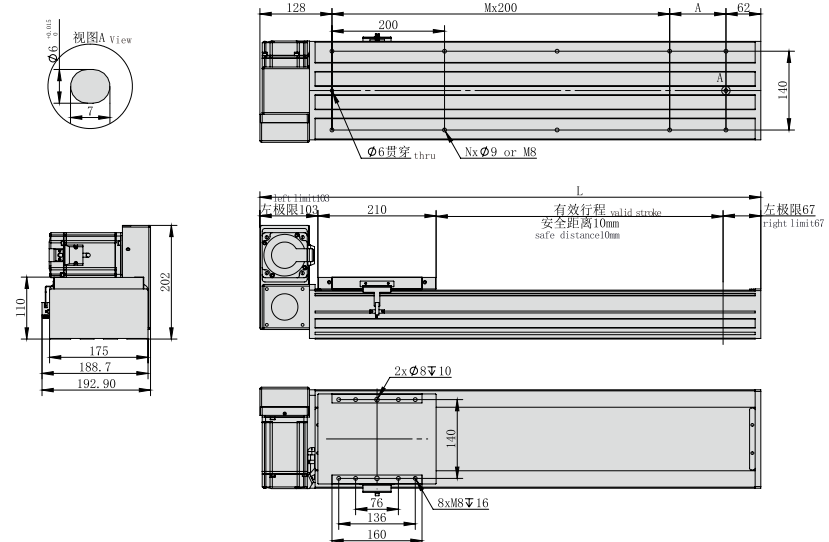
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	540	640	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940	3040	3140	3240	3340	3440
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	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
KG	10.6	11.6	12.6	13.6	14.6	15.6	16.6	17.6	18.6	19.6	20.6	21.6	22.6	23.6	24.6	25.6	26.6	27.6	28.6	29.6	30.6	31.6	32.6	33.6	34.6	35.6	36.6	37.6	38.6	39.6

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.

LU 电机外置左上 Motor external upper left

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	540	640	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940	3040	3140	3240	3340	3440
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	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
KG	10.6	11.6	12.6	13.6	14.6	15.6	16.6	17.6	18.6	19.6	20.6	21.6	22.6	23.6	24.6	25.6	26.6	27.6	28.6	29.6	30.6	31.6	32.6	33.6	34.6	35.6	36.6	37.6	38.6	39.6

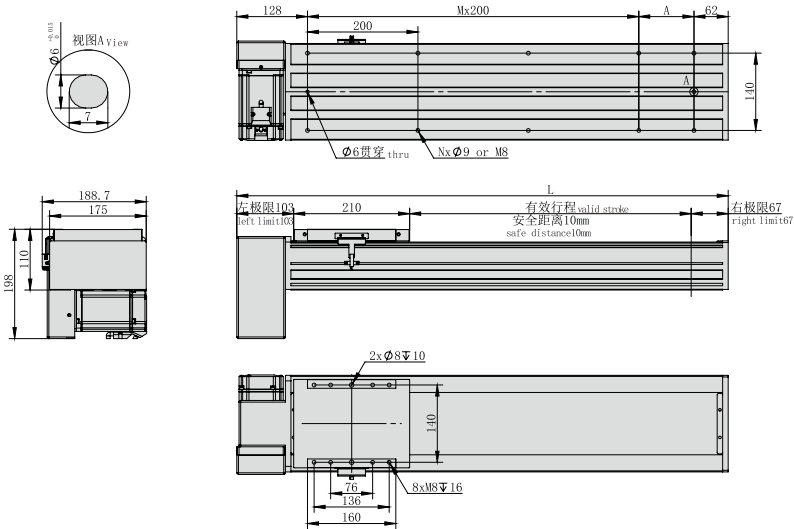
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.



电机外置右下/电机外置右上
Motor external lower right /Motor external upper right

RP 电机外置右下 Motor external lower right

单位:Unit: mm



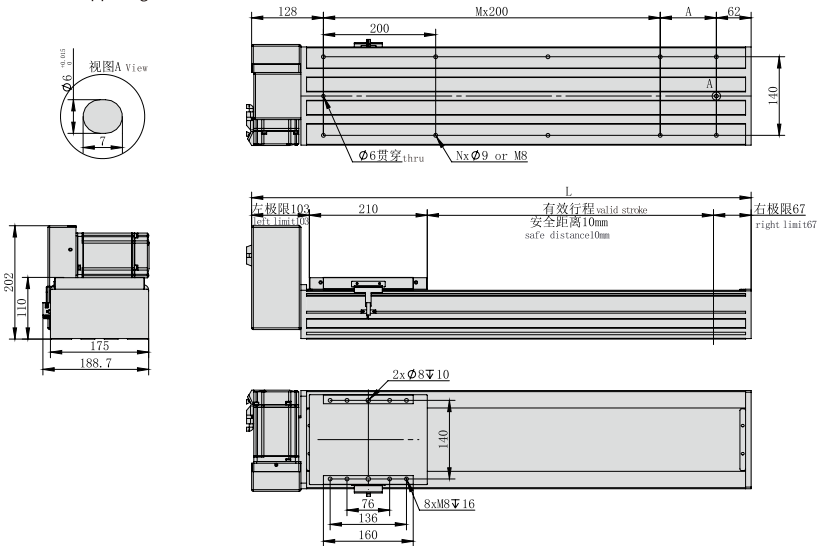
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	540	640	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940	3040	3140	3240	3340	3440
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	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
KG	10.6	11.6	12.6	13.6	14.6	15.6	16.6	17.6	18.6	19.6	20.6	21.6	22.6	23.6	24.6	25.6	26.6	27.6	28.6	29.6	30.6	31.6	32.6	33.6	34.6	35.6	36.6	37.6	38.6	39.6

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.

RU 电机外置右上 Motor external upper right

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	540	640	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940	3040	3140	3240	3340	3440
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	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
KG	10.6	11.6	12.6	13.6	14.6	15.6	16.6	17.6	18.6	19.6	20.6	21.6	22.6	23.6	24.6	25.6	26.6	27.6	28.6	29.6	30.6	31.6	32.6	33.6	34.6	35.6	36.6	37.6	38.6	39.6

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.

MEMO



重复精度
Repeat Accuracy
 ± 0.04
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 3050mm

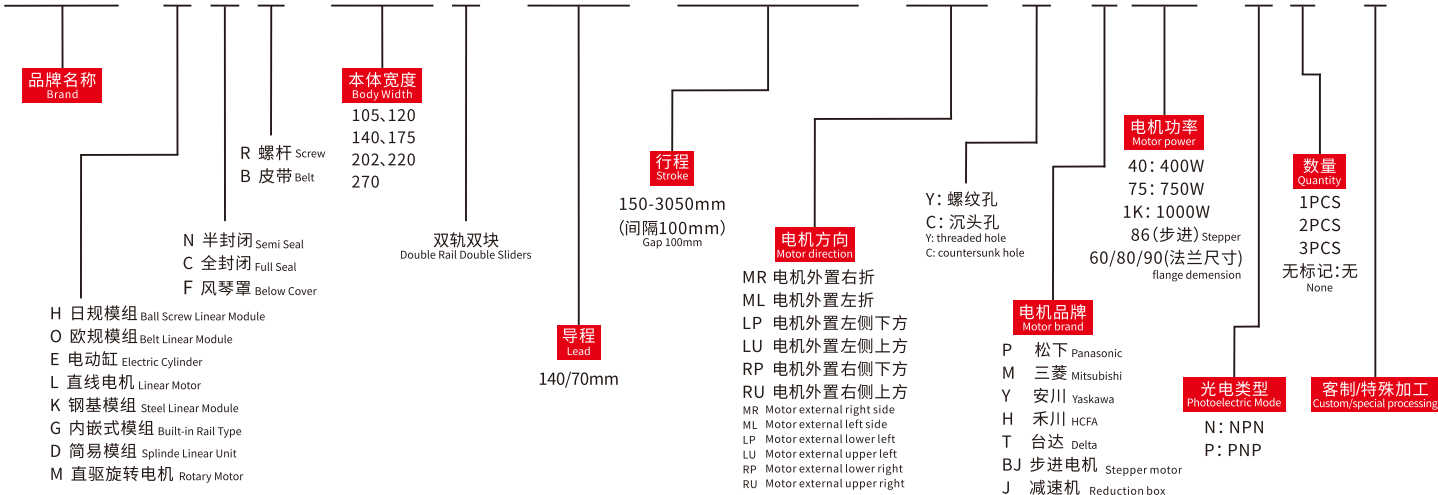
最高速度
Max speed 7000mm/s

马达容量
Motor output 750W

直线滑轨
Linear guide 25X22-2支

型号表达方式 Ordering method

TPA-HCB-202D-140-L3050-MR-Y-P75-N3-F



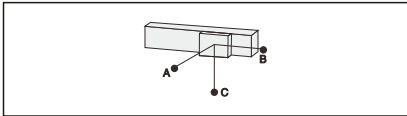
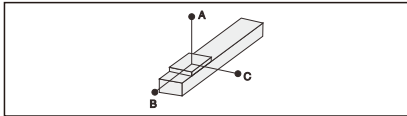
产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率 (W) Motor power (W)	750	
	重复定位精度 (mm) Repeated positioning accuracy (mm)	± 0.04	
	减速比 (mm) Reduction ratio	1:1	1:2
	导程 (mm) Lead (mm)	140	70
	最高速度 (mm/s) Maximum speed (mm/s)	7000	
	电机额定转速 (RPM) Rated speed of motor (RPM)	3000	
部品 Parts	最大可搬重量 Maximum Payload	40	80
	标准行程 (mm) Stroke pitch (mm)	150~3050mm/100 间隔 100 mm Pitch	
	底座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1	
使用环境 Operating environment	使用环境	0~40℃, 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

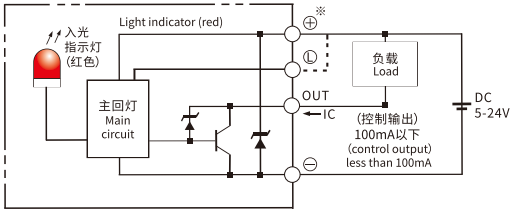


(单位Unit:mm)					(单位Unit:mm)				
水平安装 Horizontal installation		A	B	C	侧面安装 Side mounting		A	B	C
负载 Load	45kg	1588	600	349	负载 Load	40kg	500	685	1805
	65kg	1052	328	285		60kg	315	430	1152
	85kg	768	281	206		85kg	206	281	768

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)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

感应器连接图<原点及端点> Sensor layout



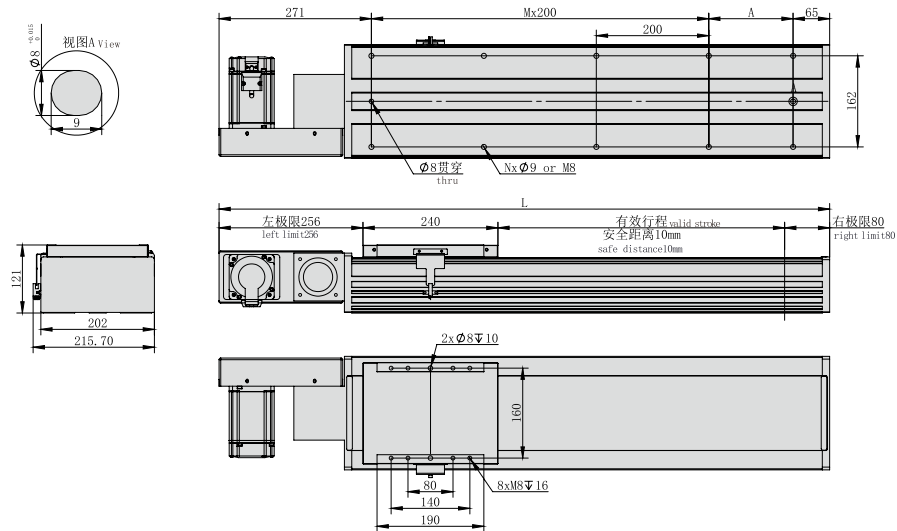
HNR
HCR
HNB
HC B
HNT
XYZ
参考资料 Reference data



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.

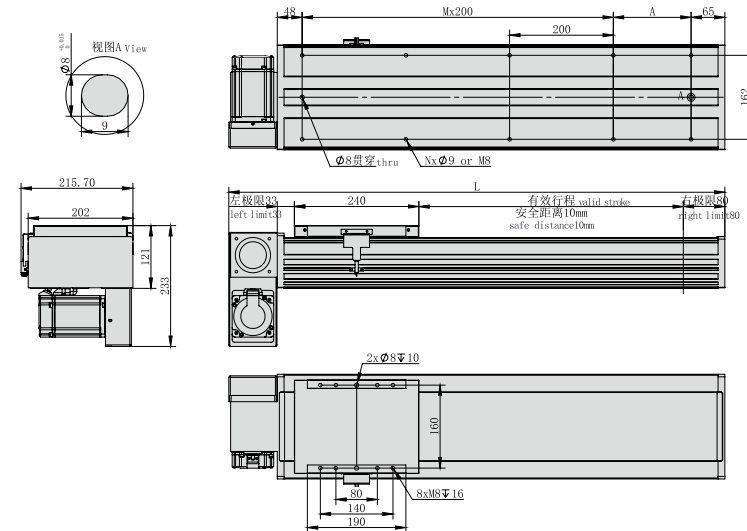
有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	736	836	936	1036	1136	1236	1336	1436	1536	1636	1736	1836	1936	2036	2136	2236	2336	2436	2536	2636	2736	2836	2936	3036	3136	3236	3336	3436	3536	3636
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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	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	13	13	14	14	15	15	16
KG	21.5	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

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.

电机外置左下/电机外置左上
Motor external lower left /Motor external upper left

LP 电机外置左下 Motor external lower left

单位:Unit: mm



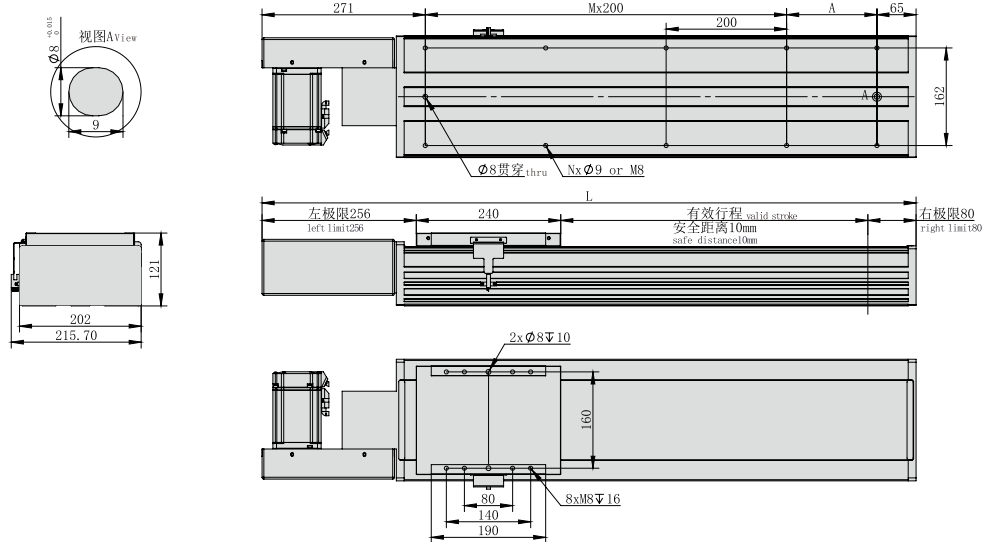
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	513	613	713	813	913	1013	1113	1213	1313	1413	1513	1613	1713	1813	1913	2013	2113	2213	2313	2413	2513	2613	2713	2813	2913	3013	3113	3213	3313	3413
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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	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	13	13	14	14	15	15	16
KG	21.5	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

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



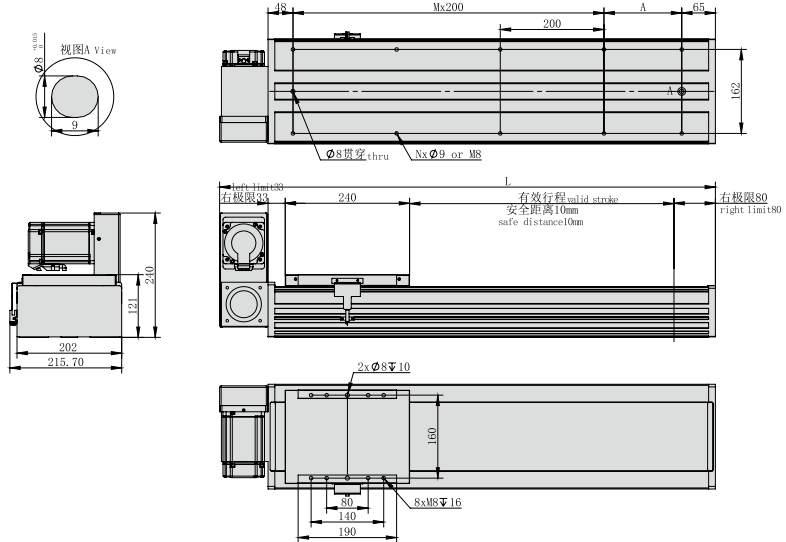
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	736	836	936	1036	1136	1236	1336	1436	1536	1636	1736	1836	1936	2036	2136	2236	2336	2436	2536	2636	2736	2836	2936	3036	3136	3236	3336	3436	3536	3636
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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	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	13	13	14	14	15	15	16
KG	21.5	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

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.

LU 电机外置左上 Motor external upper left

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	513	613	713	813	913	1013	1113	1213	1313	1413	1513	1613	1713	1813	1913	2013	2113	2213	2313	2413	2513	2613	2713	2813	2913	3013	3113	3213	3313	3413
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	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	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	13	13	14	14	15	15	16
KG	21.5	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

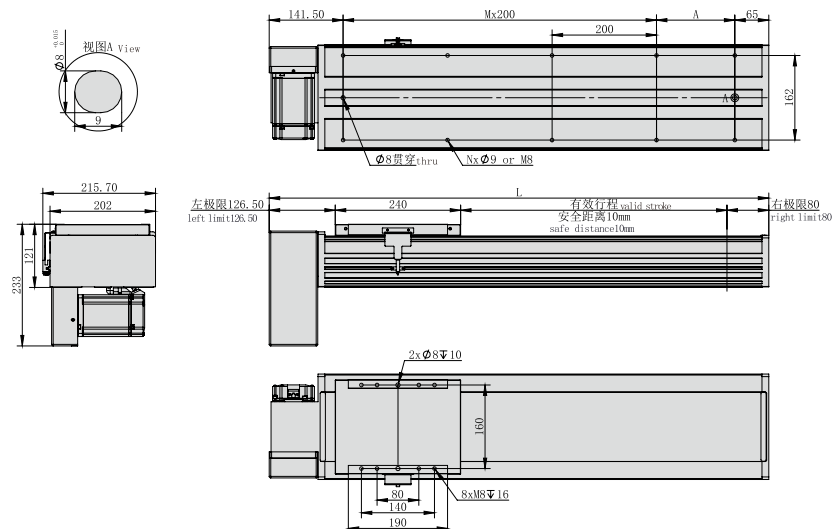
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置右下/电机外置右上

Motor external lower right / Motor external upper right

RP 电机外置右下 Motor external lower right

单位:Unit:mm



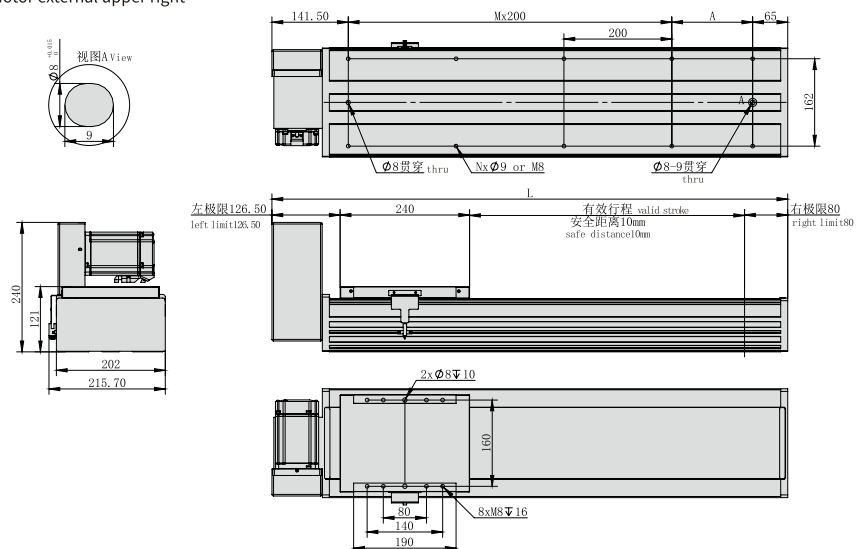
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050	
L	513	613	713	813	913	1013	1113	1213	1313	1413	1513	1613	1713	1813	1913	2013	2113	2213	2313	2413	2513	2613	2713	2813	2913	3013	3113	3213	3313	3413	
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
N	6	8	8	10	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	13	13	14	14	15	15	16	
KG	21.5	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	

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.

RU 电机外置右上 Motor external upper right

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050	
L	513	613	713	813	913	1013	1113	1213	1313	1413	1513	1613	1713	1813	1913	2013	2113	2213	2313	2413	2513	2613	2713	2813	2913	3013	3113	3213	3313	3413	
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
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	13	13	14	14	15	15	16	
KG	21.5	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	

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
参考资料 Reference data



重复精度
Repeat Accuracy
 ± 0.04
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 3050mm

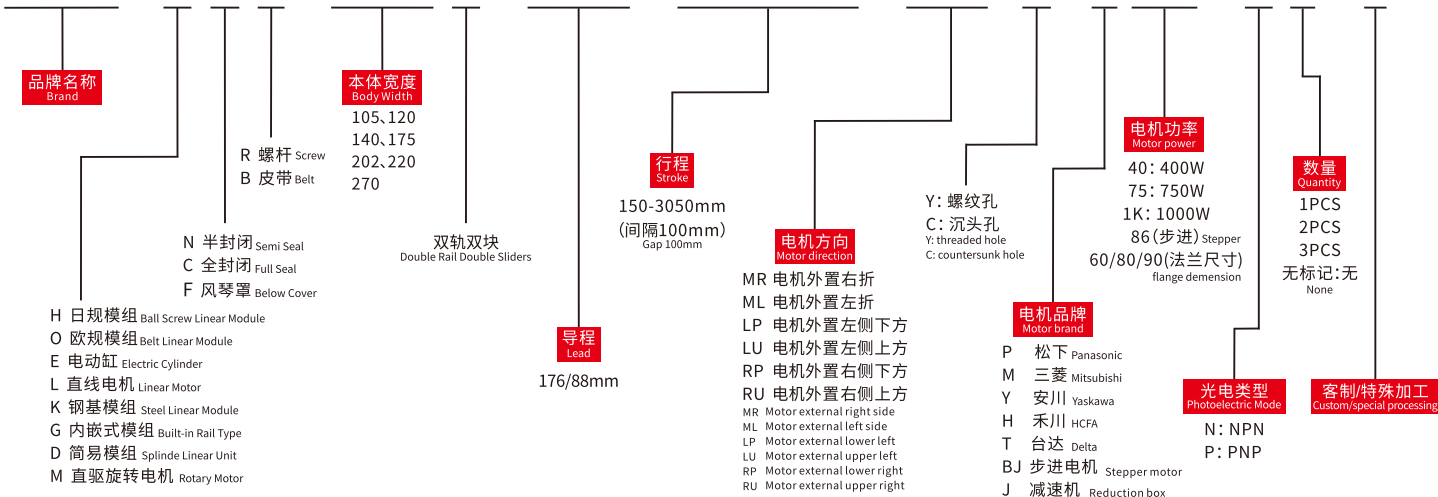
最高速度
Max speed 8800mm/s

马达容量
Motor output 1000W

直线滑轨
Linear guide 25X22-2支

型号表达方式 Ordering method

TPA-HCB-220D-176-L3050-MR-Y-P1K-N3-F



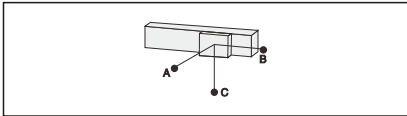
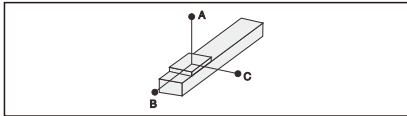
产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率 (W) Motor power (W)	1000	
	重复定位精度 (mm) Repeated positioning accuracy (mm)	± 0.04	
	减速比 (mm) Reduction ratio	1:1	1:2
	导程 (mm) Lead (mm)	176	88
	最高速度 (mm/s) Maximum speed (mm/s)	8800	
	电机额定转速 (RPM) Rated speed of motor (RPM)	3000	
部品 Parts	最大可搬重量 Maximum Payload	50	100
	标准行程 (mm) Stroke pitch (mm)	150~3050mm/100 间隔 100 mm Pitch	
部品 Parts	底座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1	
	使用环境 Operating environment	0~40℃, 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.

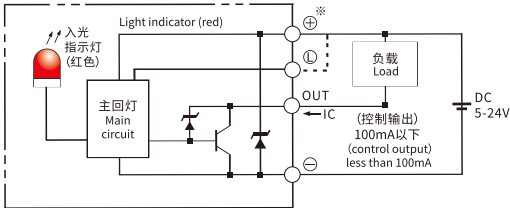
注2: 最高速度因行程和负载而异, 当螺杆细长比大于1:50时, 可能会因螺杆临界速度产生共振和抖动, 应适当下调运行速度, 一般螺杆每增长100mm, 速度应下调10~15%。
Note 2: The maximum speed varies with stroke and load. When the screw slenderness ratio is greater than 1:50, resonance and jitter may occur due to the critical speed of the screw, so the running speed should be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



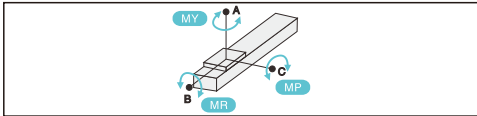
(单位Unit:mm)					(单位Unit:mm)				
水平安装 Horizontal installation		A	B	C	侧面安装 Side mounting		A	B	C
负载 Load	45kg	3444	1015	1358	负载 Load	45kg	1410	925	3435
	65kg	2460	725	970		65kg	1010	664	2455
	85kg	1800	550	740		85kg	770	500	1886

感应器连接图<原点及端点> Sensor layout



HNR
HCR
HNB
HCB
HNT
XYZ
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)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

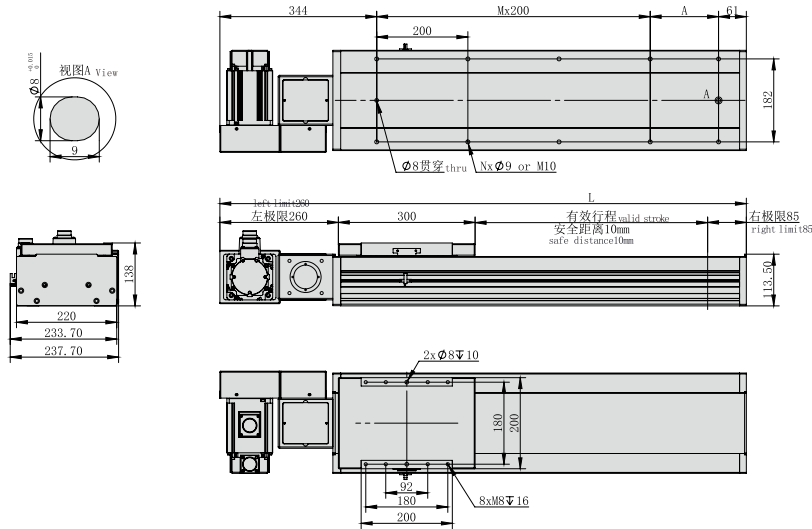


电机外置左侧/电机外置右侧

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	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	805	905	1005	1105	1205	1305	1405	1505	1605	1705	1805	1905	2005	2105	2205	2305	2405	2505	2605	2705	2805	2905	3005	3105	3205	3305	3405	3505	3605	3705
A	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	150
N	6	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
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
KG	25.6	27.5	29.4	31.3	33.2	35.1	37	38.9	40.8	42.7	44.6	46.5	48.4	50.3	52.2	54.1	56	57.9	59.8	61.7	63.6	65.5	67.4	69.3	71.2	73.1	75	76.9	78.8	80.7

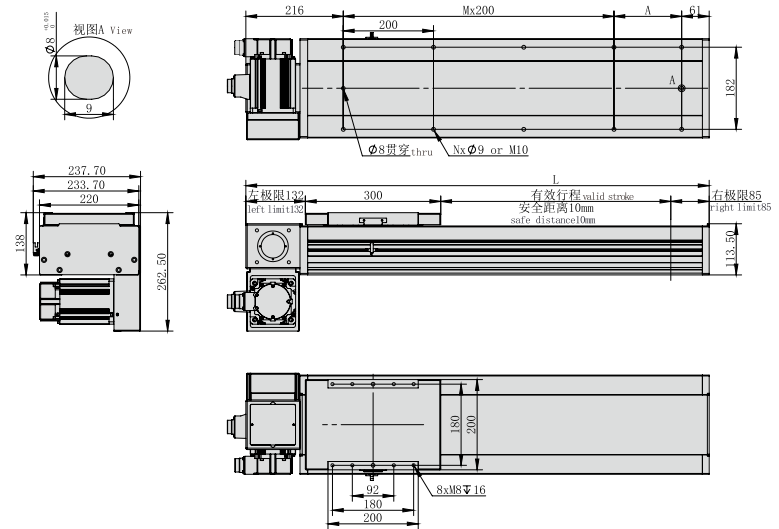
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.

电机外置左下/电机外置左上

Motor external lower left / Motor external upper left

LP 电机外置左下 Motor external lower left

单位:Unit: mm



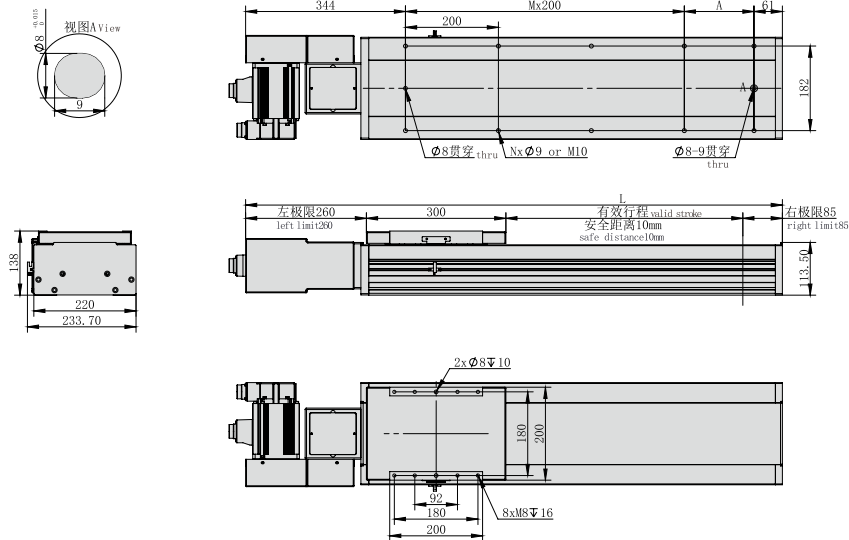
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	677	777	877	977	1077	1177	1277	1377	1477	1577	1677	1777	1877	1977	2077	2177	2277	2377	2477	2577	2677	2777	2877	2977	3077	3177	3277	3377	3477	3577
A	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	150
N	6	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
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
KG	25.6	27.5	29.4	31.3	33.2	35.1	37	38.9	40.8	42.7	44.6	46.5	48.4	50.3	52.2	54.1	56	57.9	59.8	61.7	63.6	65.5	67.4	69.3	71.2	73.1	75	76.9	78.8	80.7

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



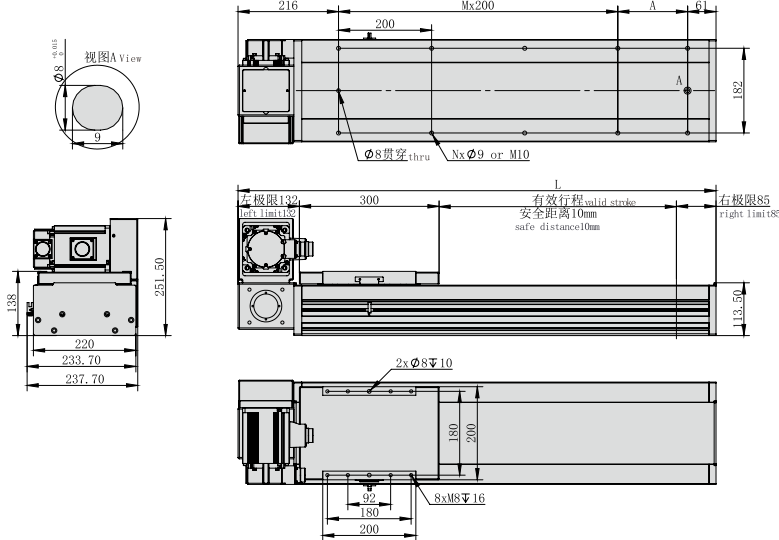
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	805	905	1005	1105	1205	1305	1405	1505	1605	1705	1805	1905	2005	2105	2205	2305	2405	2505	2605	2705	2805	2905	3005	3105	3205	3305	3405	3505	3605	3705
A	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	150
N	6	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
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
KG	25.6	27.5	29.4	31.3	33.2	35.1	37	38.9	40.8	42.7	44.6	46.5	48.4	50.3	52.2	54.1	56	57.9	59.8	61.7	63.6	65.5	67.4	69.3	71.2	73.1	75	76.9	78.8	80.7

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.

LU 电机外置左上 Motor external upper left

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	677	777	877	977	1077	1177	1277	1377	1477	1577	1677	1777	1877	1977	2077	2177	2277	2377	2477	2577	2677	2777	2877	2977	3077	3177	3277	3377	3477	3577
A	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	150
N	6	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
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
KG	25.6	27.5	29.4	31.3	33.2	35.1	37	38.9	40.8	42.7	44.6	46.5	48.4	50.3	52.2	54.1	56	57.9	59.8	61.7	63.6	65.5	67.4	69.3	71.2	73.1	75	76.9	78.8	80.7

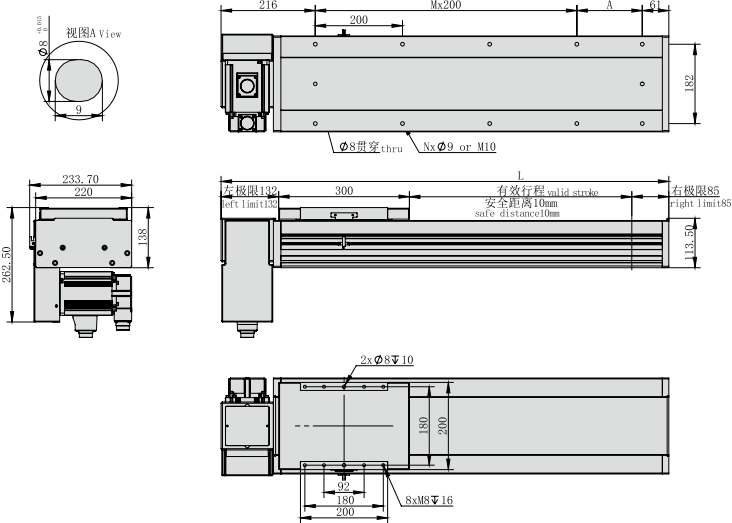
如有超长行程及定制需求,请咨询我司业务。If you have extra long trip and custom requirements, please consult our business.



电机外置右下/电机外置右上
Motor external lower right / Motor external upper right

RP 电机外置右下 Motor external lower right

单位:Unit: mm



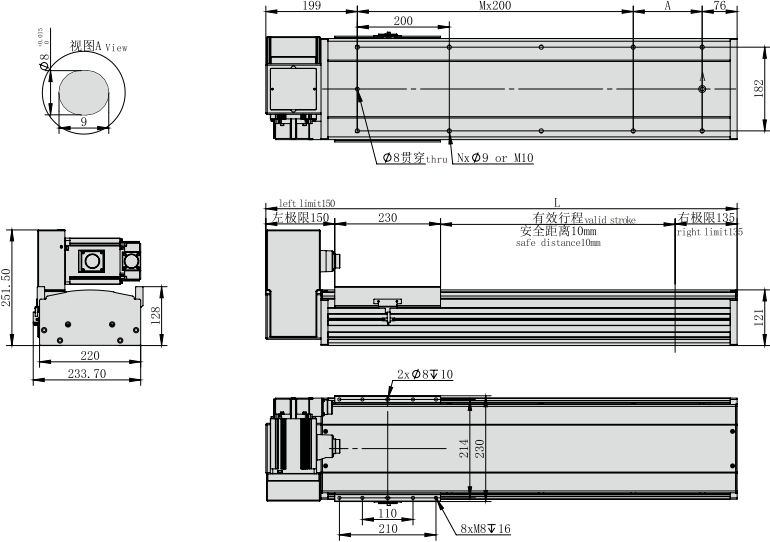
*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	677	777	877	977	1077	1177	1277	1377	1477	1577	1677	1777	1877	1977	2077	2177	2277	2377	2477	2577	2677	2777	2877	2977	3077	3177	3277	3377	3477	3577
A	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	150
N	6	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
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
KG	25.6	27.5	29.4	31.3	33.2	35.1	37	38.9	40.8	42.7	44.6	46.5	48.4	50.3	52.2	54.1	56	57.9	59.8	61.7	63.6	65.5	67.4	69.3	71.2	73.1	75	76.9	78.8	80.7

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.

RU 电机外置右上 Motor external upper right

单位:Unit: mm



*不含电机重量。*Motor weight not included.

有效行程 Stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
L	677	777	877	977	1077	1177	1277	1377	1477	1577	1677	1777	1877	1977	2077	2177	2277	2377	2477	2577	2677	2777	2877	2977	3077	3177	3277	3377	3477	3577
A	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	150
N	6	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
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
KG	25.6	27.5	29.4	31.3	33.2	35.1	37	38.9	40.8	42.7	44.6	46.5	48.4	50.3	52.2	54.1	56	57.9	59.8	61.7	63.6	65.5	67.4	69.3	71.2	73.1	75	76.9	78.8	80.7

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



重复精度
Repeat Accuracy
 ± 0.04
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
4200mm

最高速度
Max speed
2500mm/s

马达容量
Motor output
400W

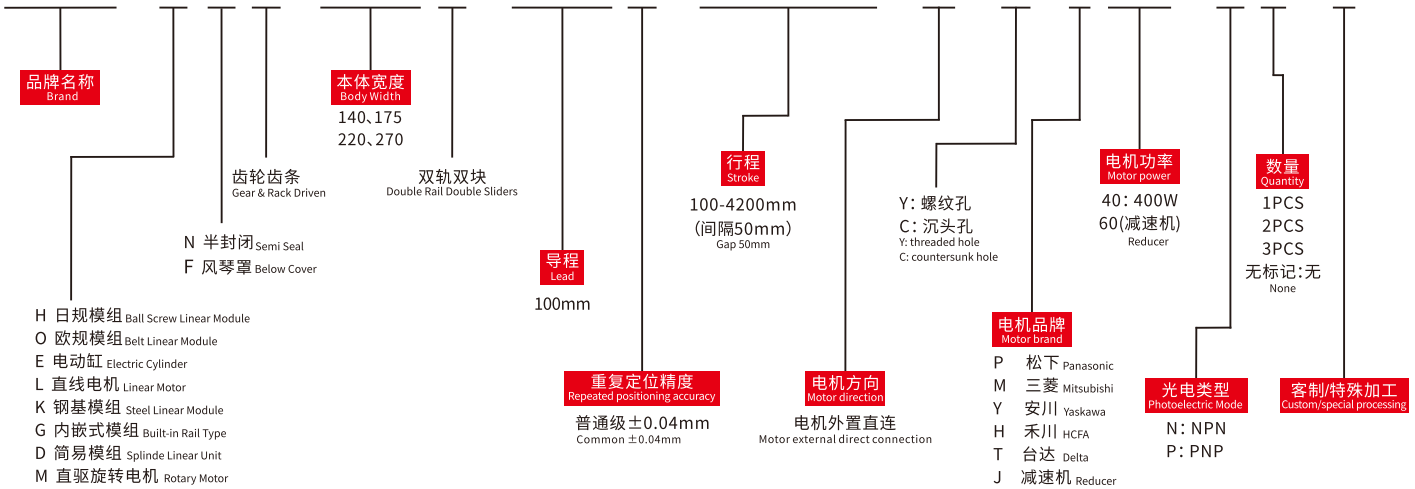
齿条
Rack
1.5M

直线滑轨
Linear guide
15X12.5-2支

※依减速比不同而异
The maximum speed depans on
different gear ratio.

型号表达方式 Ordering method

TPA-HNT-140D-100C-L4200-M-C-J60-N3-F



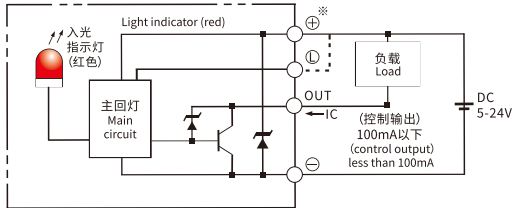
产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率 (W) Motor power (W)	400W				
	额定扭矩 (N.M) Rated torque (N.M)	1.27				
	重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.04				
	导程 (mm) Lead (mm)	100				
	减速比 Reduction ratio	3:1	5:1	7:1	10:1	
	最高速度 (mm/s) Maximum speed (mm/s)	1665	1000	715	500	
	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)	35	45	60	80
		垂直使用 (kg) Vertical(kg)	11	15	20	30
	额定推力 (N) Rated thrust (N)	218	347	520	694	
	行程 (mm) Stroke (mm)	100~4200mm/50 间隔 50 mm Pitch				
部 品 Parts	基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1				
	使用环境 Operating environment	0~40℃,85%RH(无凝结) No condensation				

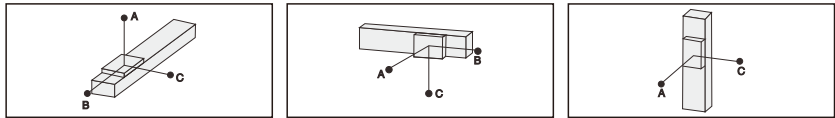
注1: 使用非上述功率电机时请依据实际参数推算。

Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.

感应器连接图<原点及端点> Sensor layout

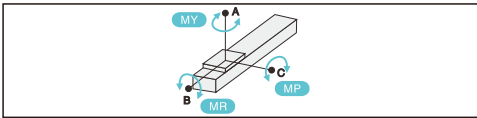


容许负载力矩表 N.m Allowable overhang



(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
3:1	15kg	1023	535	395	3:1	15kg	395	535	1023	3:1	5kg	1493	1493
	25kg	594	301	223		30kg	178	241	485		8kg	934	934
	30kg	485	241	178		-	-	-	-		-	-	-
5:1	10kg	2294	1212	1018	5:1	12kg	844	1009	2542	5:1	7kg	1690	1690
	22kg	1433	530	441		20kg	490	586	1578		10kg	1178	1178
	40kg	850	267	223		40kg	223	267	850		-	-	-
7:1	20kg	1658	871	719	7:1	23kg	598	697	2450	7:1	8kg	1595	1595
	36kg	1500	393	336		37kg	349	407	1506		12kg	1120	1120
	64kg	847	195	167		64kg	168	195	847		18kg	735	735
10:1	30kg	2717	460	420	10:1	35kg	353	385	2358	10:1	10kg	1490	1490
	50kg	1567	256	232		55kg	208	228	1435		14kg	1062	1062
	88kg	844	124	112		88kg	113	124	844		22kg	672	672

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)	400	220	HG-KN43J-S100	MR-JE-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMF042L1U2M	MBDLN25SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECM-B3M-C20604RS1	ASD-B3-0421-L



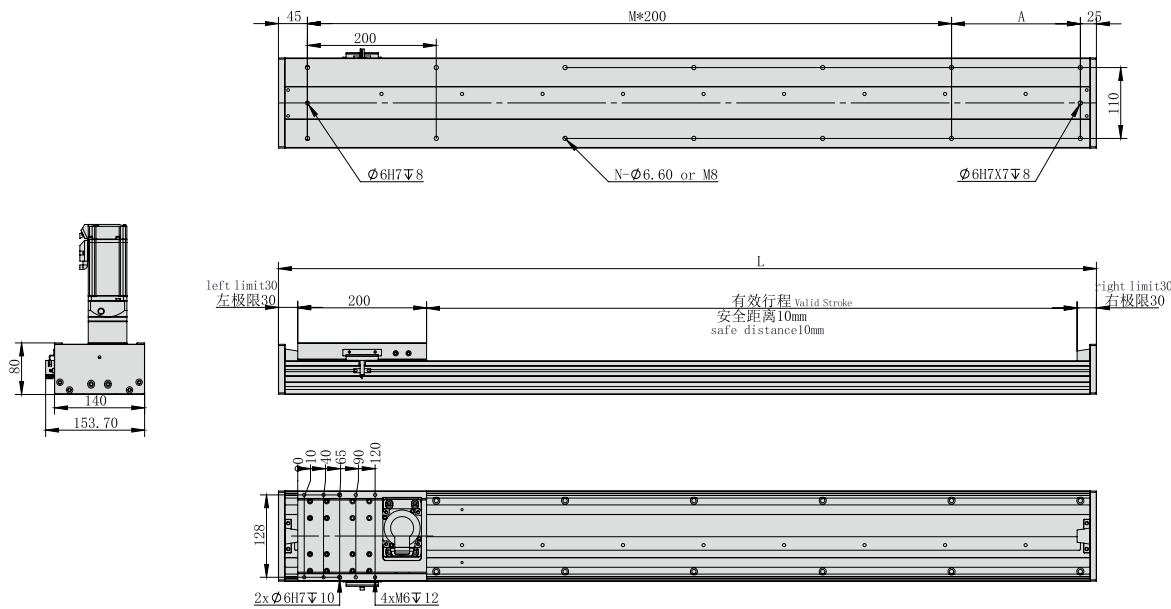
电机外置直连

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	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
L	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720
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
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
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
KG	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	17	17.5	18	18.5	19	19.5

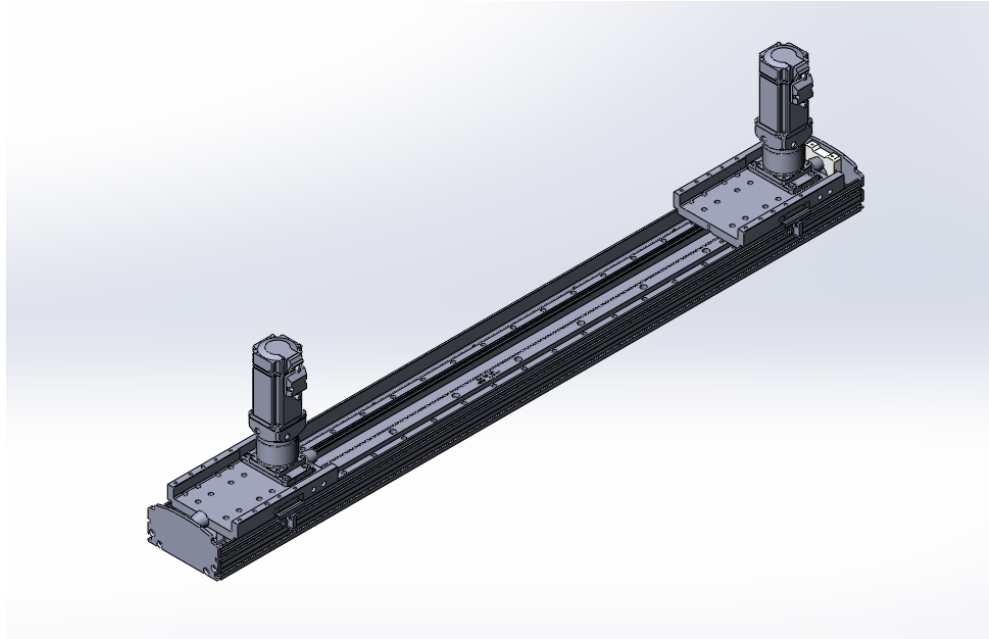
有效行程 Stroke	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850
L	1770	1820	1870	1920	1970	2020	2070	2120	2170	2220	2270	2320	2370	2420	2470	2520	2570	2620	2670	2720	2770	2820	2870	2920	2970	3020	3070	3120
A	100	150	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
N	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34
M	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15
KG	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5

有效行程 Stroke	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950	4000	4050	4100	4150	4200
L	3170	3220	3270	3320	3370	3420	3470	3520	3570	3620	3670	3720	3770	3820	3870	3920	3970	4020	4070	4120	4170	4220	4270	4320	4370	4420	4470
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	34	34	34	36	36	36	36	38	38	38	38	40	40	40	40	42	42	42	42	44	44	44	44	46	46	46	46
M	15	15	15	16	16	16	17	17	17	17	17	18	18	18	18	19	19	19	19	20	20	20	20	21	21	21	21
KG	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5	43	43.5	44	44.5	45	45.5	46	46.5	47

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.

可选定制方案介绍(多个载重滑台)

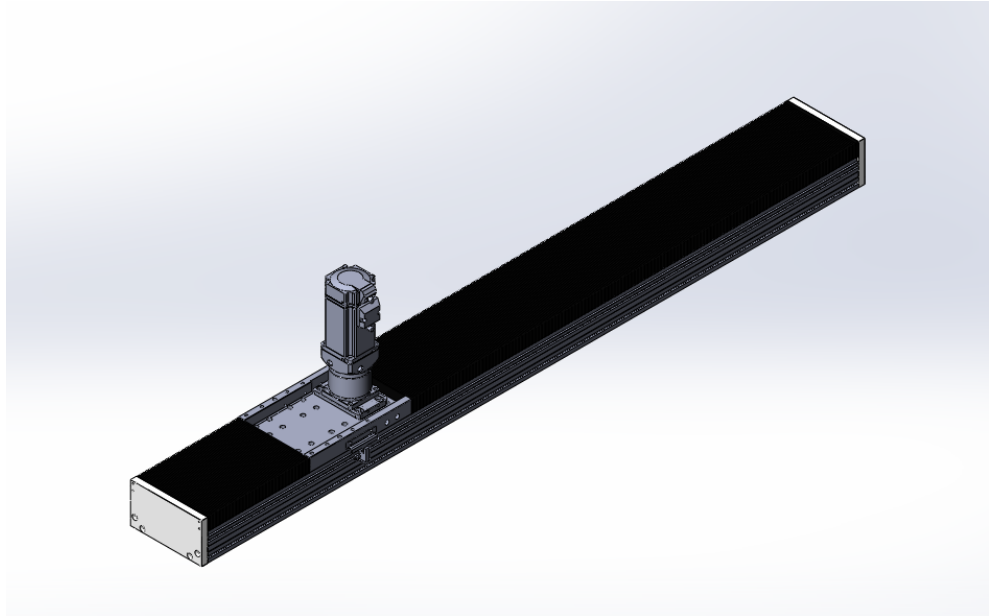
Introduction to optional customized solutions (multiple load slides)



升级款: 增加多个滑台, 满足更多使用需求。
Upgraded version: add multiple axis to meet demands.

F款防尘型产品

F type dust-proof product



升级款: 增加防尘风琴罩, 可满足更多使用环境。
Upgraded version: add a dust-proof organ cover to meet more usage environments.



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

5650mm

最高速度
Max speed

3000mm/s

※依减速比不同而异
The maximum speed depans on
different gear ratio.

马达容量
Motor output

750W

齿条
Rack

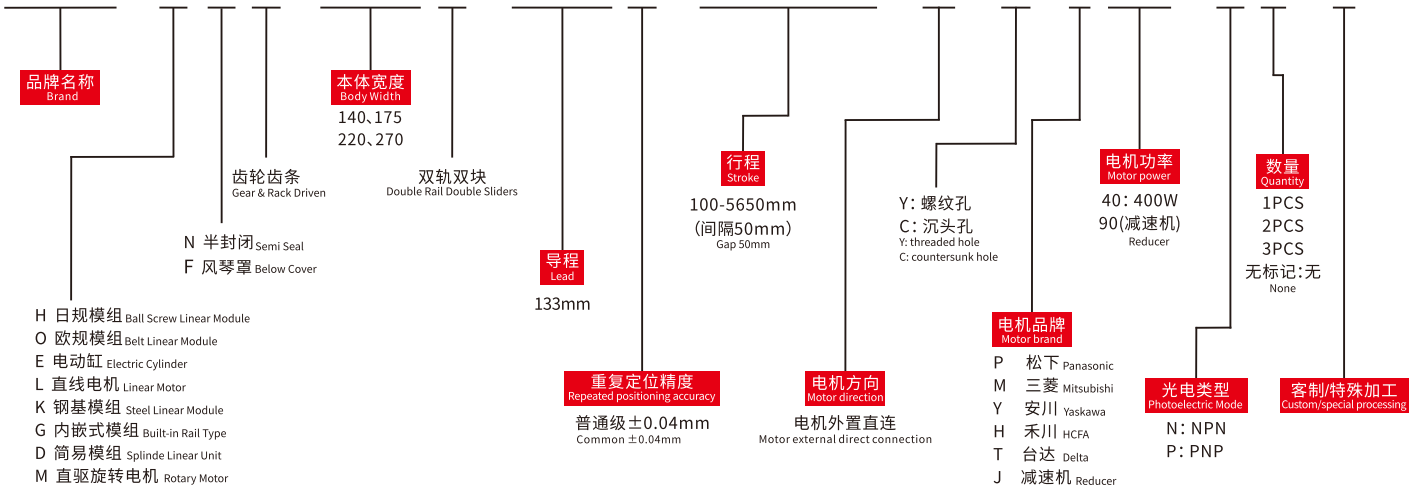
2M

直线滑轨
Linear guide

20X15-2支

型号表达方式 Ordering method

TPA-HNT-175D-133C-L5650-M-C-J90-N3-F

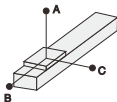
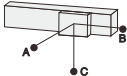
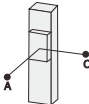


产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率 (W) Motor power (W)	750W			
	额定扭矩 (N.M) Rated torque (N.M)	2.4			
	重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.04			
	导程 (mm) Lead (mm)	133			
	减速比 Reduction ratio	3:1	5:1	7:1	10:1
	最高速度 (mm/s) Maximum speed (mm/s)	2216	1330	950	665
	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)	31	63	83
垂直使用 (kg) Vertical(kg)		9	18	25	33
	额定推力 (N) Rated thrust (N)	287	479	671	958
	行程 (mm) Stroke (mm)	100~5650mm/50 间隔 50 mm Pitch			
部 品 Parts	基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1			
	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.

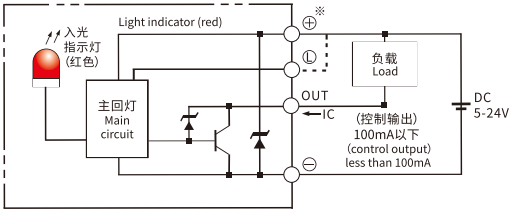
容许负载力矩表 N.m Allowable overhang

													
(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
3:1	10kg	991	837	587	3:1	8kg	777	1009	1281	3:1	5kg	1215	1215
	14kg	687	531	398		15kg	389	521	658		9kg	644	644
	31kg	294	244	188		33kg	188	237	294		-	-	-
5:1	25kg	1396	643	557	5:1	21kg	681	790	1689	5:1	8kg	1639	1639
	38kg	892	411	356		36kg	374	430	949		13kg	1083	1083
	63kg	510	218	193		63kg	193	218	511		18kg	868	868
7:1	35kg	1666	547	538	7:1	30kg	633	644	1961	7:1	10kg	1922	1922
	55kg	1030	331	328		50kg	365	369	1143		14kg	1377	1377
	83kg	654	206	204		83kg	204	206	656		25kg	769	769
10:1	50kg	1789	443	456	10:1	45kg	521	506	2027	10:1	13kg	1770	1770
	70kg	1238	290	302		65kg	331	218	1349		20kg	1174	1174
	102kg	827	185	193		102kg	193	185	829		33kg	688	688

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)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

感应器连接图<原点及端点> Sensor layout



HNR
HCR
HNB
HCB
HNT
XYZ
参考资料 Reference data



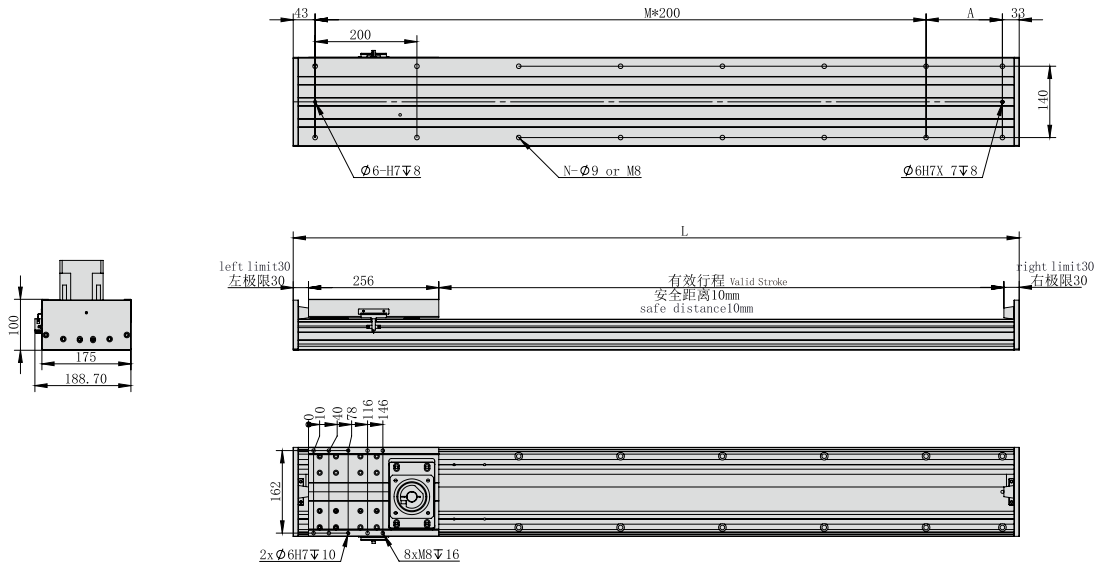
电机外置直连

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	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	1850	1900
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	2176	2226
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	100	150
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	24	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	10	10
KG	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	26	26.5	27

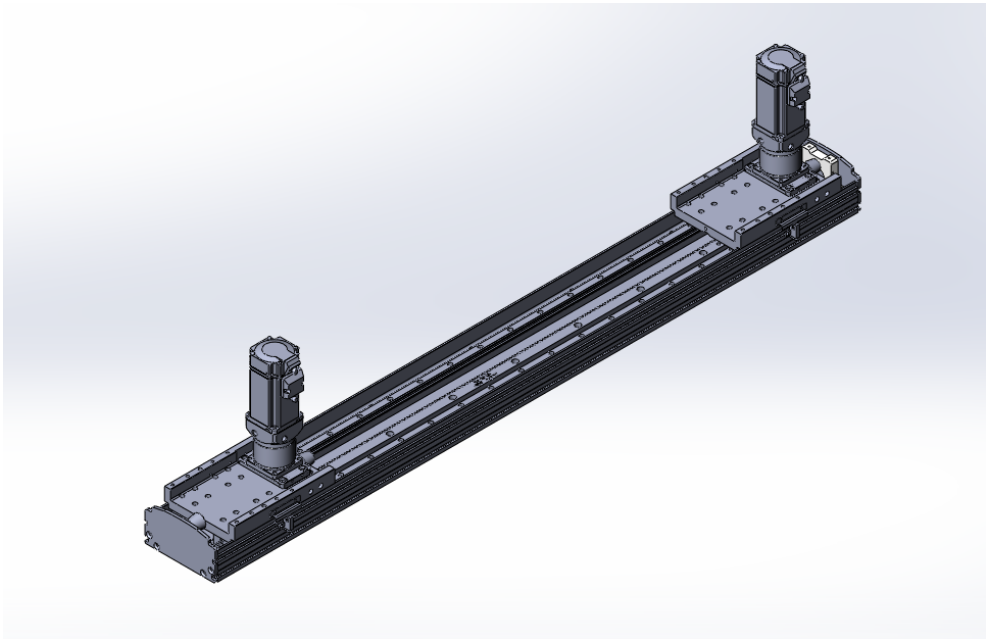
有效行程 Stroke	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750
L	2276	2326	2376	2426	2476	2526	2576	2626	2676	2726	2776	2826	2876	2926	2976	3026	3076	3126	3176	3226	3276	3326	3376	3426	3476	3526	3576	3626	3676	3726	3776	3826	3876	3926	3976	4026	4076
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	150	200
N	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36	36	36	38	38	38	38	40	40	40	40	42	42	42	42
M	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16	16	17	17	17	17	18	18	18	18	19	19	19	19
KG	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5	43	43.5	44	44.5	45	45.5

有效行程 Stroke	3800	3850	3900	3950	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950	5000	5050	5100	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650
L	4126	4176	4226	4276	4326	4376	4426	4476	4526	4576	4626	4676	4726	4776	4826	4876	4926	4976	5026	5076	5126	5176	5226	5276	5326	5376	5426	5476	5526	5576	5626	5676	5726	5776	5826	5876	5926	5976
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	200	50	100
N	44	44	44	44	46	46	46	46	48	48	48	48	50	50	50	52	52	52	52	54	54	54	54	56	56	56	56	58	58	58	58	60	60	60	60	62	62	
M	20	20	20	20	21	21	21	22	22	22	22	23	23	23	24	24	24	24	25	25	25	25	26	26	26	26	27	27	27	27	28	28	28	28	29	29	29	29
KG	46	46.5	47	47.5	48	48.5	49	49.5	50	50.5	51	51.5	52	52.5	53	53.5	54	54.5	55	55.5	56	56.5	57	57.5	58	58.5	59	59.5	60	60.5	61	61.5	62	62.5	63	63.5	64	64.5

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.

可选定制方案介绍(多个载重滑台)

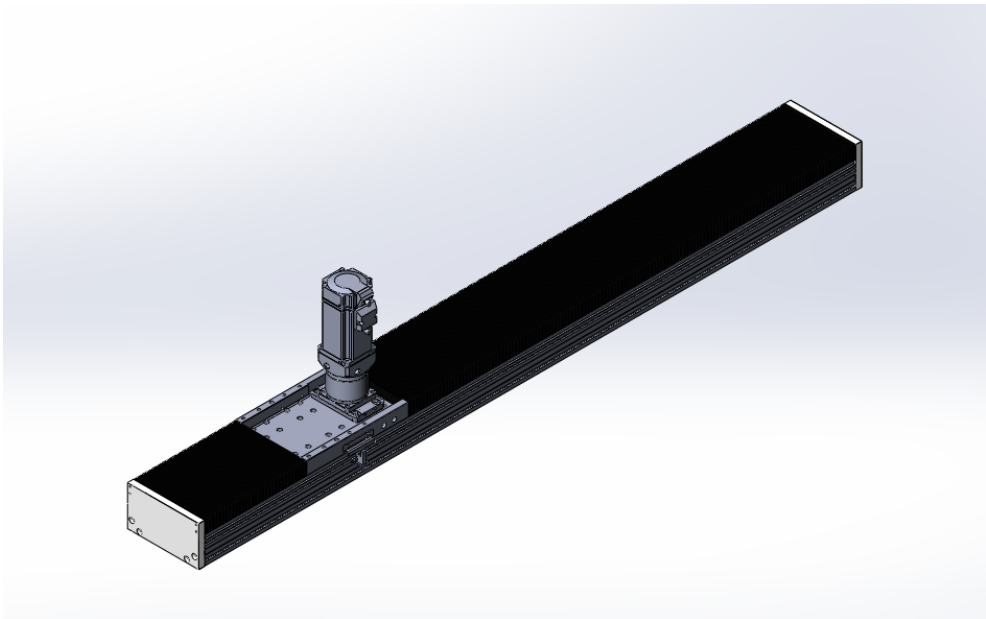
Introduction to optional customized solutions (multiple load slides)



升级款:增加多个滑台,满足更多使用需求。
Upgraded version: add multiple axis to meet demands.

F款防尘型产品

F type dust-proof product



升级款:增加防尘风琴罩,可满足更多使用环境。
Upgraded version: add a dust-proof organ cover to meet more usage environments.



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 5450mm

最高速度
Max speed 3500mm/s

马达容量
Motor output 1500W

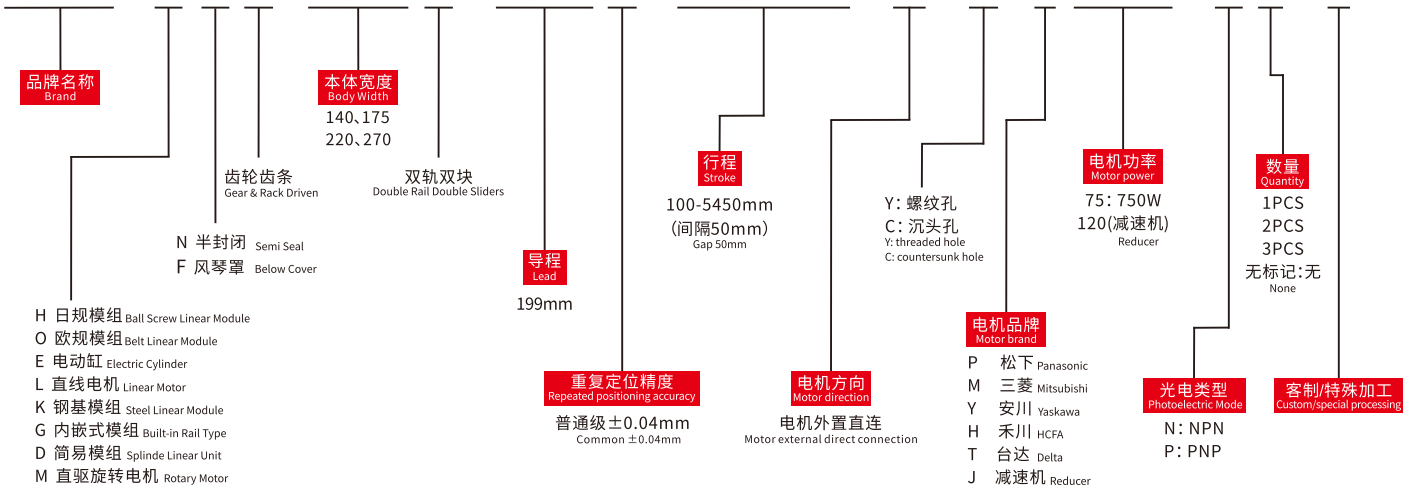
齿条
Rack 2M

直线滑轨
Linear guide 20X15-2支

※依减速比不同而异
The maximum speed depans on different gear ratio.

型号表达方式 Ordering method

TPA-HNT-220D-199C-L5450-M-C-J120-N3-F



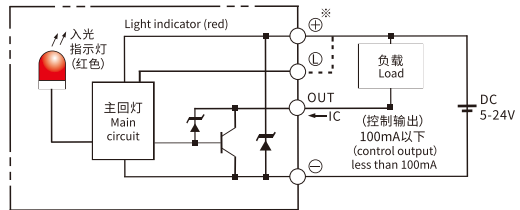
产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率 (W) Motor power (W)	1000W			
	额定扭矩 (N.M) Rated torque (N.M)	3.18			
	重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.04			
	导程 (mm) Lead (mm)	199			
	减速比 Reduction ratio	5:1	7:1	10:1	20:1
	最高速度 (mm/s) Maximum speed (mm/s)	1990	1421	995	497
	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)	43	105	128
垂直使用 (kg) Vertical(kg)		15	21	42	50
	额定推力 (N) Rated thrust (N)	427	597	854	1708
	行程 (mm) Stroke (mm)	100~5450mm/50 间隔 50 mm Pitch			
部品 Parts	基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1			
	使用环境 Operating environment	0~40℃,85%RH(无凝结) No condensation			

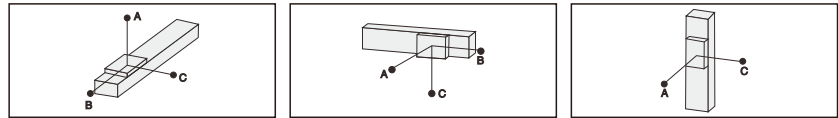
注1: 使用非上述功率电机时请依据实际参数推算。

Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.

感应器连接图<原点及端点> Sensor layout

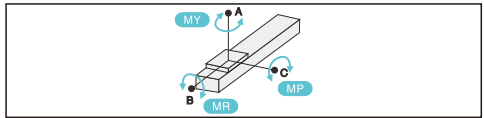


容许负载力矩表 N.m Allowable overhang



(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
3:1	10kg	2450	1621	1057	3:1	8kg	1277	1960	2953	3:1	5kg	3516	3516
	14kg	1441	943	618		15kg	783	1195	1818		9kg	2060	2060
	31kg	983	635	417		33kg	417	635	983		-	-	-
5:1	25kg	1527	619	463	5:1	21kg	425	569	1409	5:1	8kg	2716	2716
	38kg	1141	456	341		36kg	320	425	1071		13kg	2038	2038
	63kg	898	355	267		63kg	267	355	898		-	-	-
7:1	35kg	2076	594	471	7:1	30kg	429	534	2157	7:1	10kg	2613	2613
	55kg	1850	448	357		50kg	338	422	1760		14kg	1919	1919
	83kg	1508	355	284		83kg	284	355	1508		25kg	1516	1516
10:1	50kg	3225	568	479	10:1	45kg	432	508	2905	10:1	13kg	2510	2510
	70kg	2559	439	372		65kg	356	419	2449		20kg	1800	1800
	102kg	2118	354	300		102kg	300	354	2118		33kg	1401	1401

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)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L



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 5450mm

最高速度
Max speed 4000mm/s

马达容量
Motor output 1500W

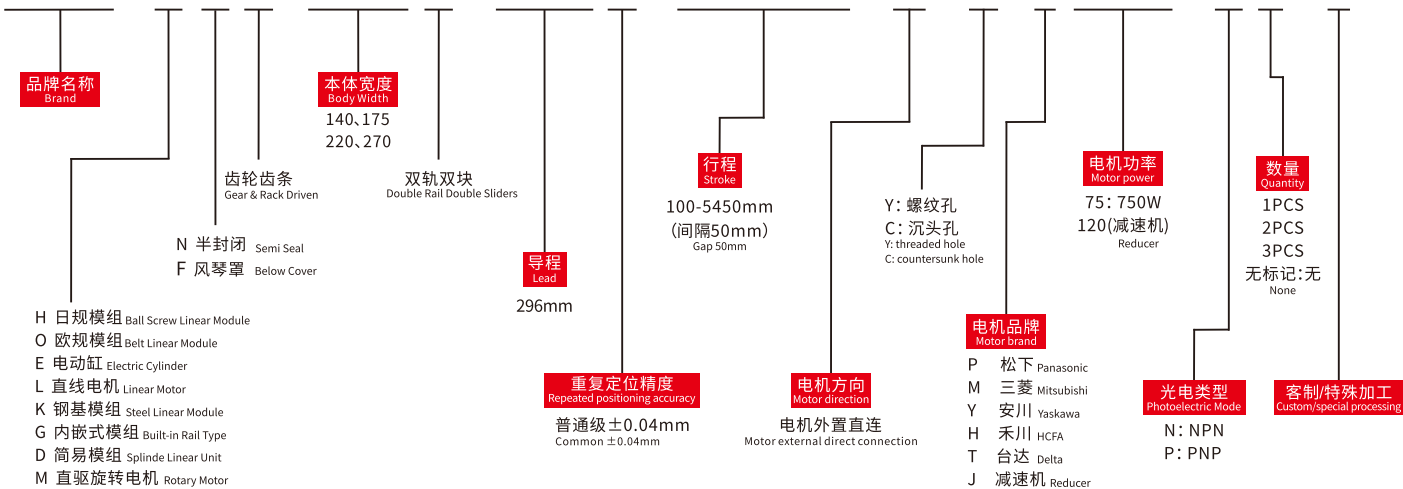
齿条
Rack 3M

直线滑轨
Linear guide 25X22-2支

※依减速比不同而异
The maximum speed depans on
different gear ratio.

型号表达方式 Ordering method

TPA-HNT-270D-296C-L5450-M-C-J120-N3-F



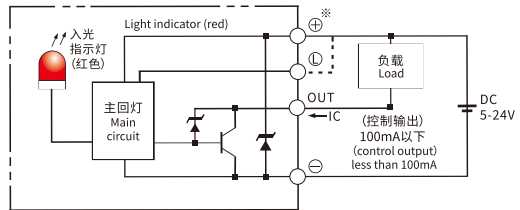
产品性能参数如下 Product performance parameters are as follows

规格 Spec	电机功率 (W) Motor power (W)	1500W				
	额定扭矩 (N.M) Rated torque (N.M)	4.77				
	重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.04				
	导程 (mm) Lead (mm)	296				
	减速比 Reduction ratio	5:1	7:1	10:1	20:1	
	最高速度 (mm/s) Maximum speed (mm/s)	2490	1778	1240	622.5	
	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)	51	110	139	170
		垂直使用 (kg) Vertical(kg)	20	30	50	65
	额定推力 (N) Rated thrust (N)	512	716	1024	2048	
	行程 (mm) Stroke (mm)	100~5450mm/50 间隔 50 mm Pitch				
部品 Parts	基座材质 Material of base	硬质挤压铝材A1 Hard extruded aluminum A1				
	使用环境 Operating environment	0~40℃,85%RH(无凝结) No condensation				

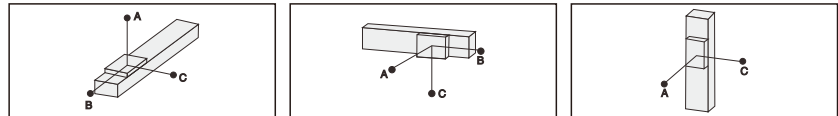
注1: 使用非上述功率电机时请依据实际参数推算。

Note 1: When using a motor with a power other than the above, please calculate according to the actual parameters.

感应器连接图<原点及端点> Sensor layout

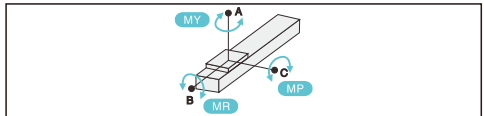


容许负载力矩表 N.m Allowable overhang



(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
3:1	15kg	2460	1631	1067	3:1	13kg	1287	1970	2963	3:1	10kg	3526	3526
	19kg	1451	953	628		20kg	793	1205	1828		14kg	2070	2070
	36kg	993	645	427		38kg	427	645	993		-	-	-
5:1	30kg	1537	629	473	5:1	26kg	435	579	1419	5:1	13kg	2726	2726
	43kg	1151	466	351		41kg	330	435	1081		18kg	2048	2048
	68kg	908	365	277		68kg	277	365	908		-	-	-
7:1	40kg	2086	604	481	7:1	35kg	439	544	2167	7:1	15kg	2623	2623
	60kg	1860	458	367		55kg	348	432	1770		19kg	1929	1929
	88kg	1518	365	294		88kg	294	365	1518		30kg	1526	1526
10:1	55kg	3235	578	489	10:1	50kg	442	518	2915	10:1	18kg	2520	2520
	75kg	2569	449	382		70kg	366	429	2459		25kg	1810	1810
	107kg	2128	364	310		107kg	310	364	2128		38kg	1411	1411

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

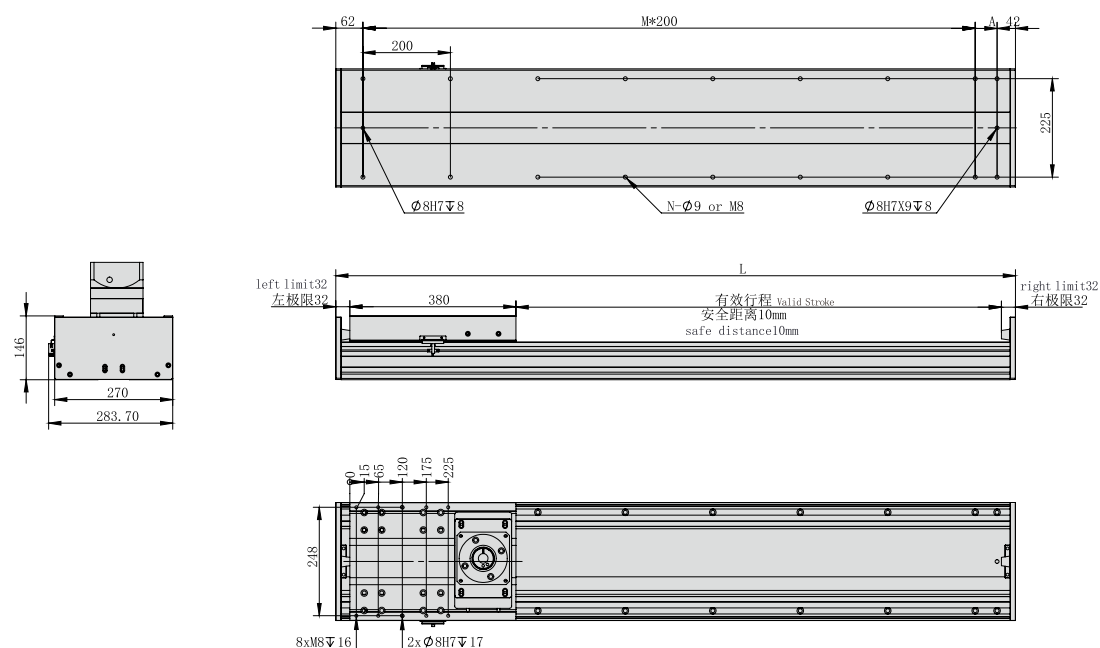
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	750	220	HG-KN73J-S100	MR-JE-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMF082L1U2M	MCDLN35SE
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECM-B3M-C20807SS1	ASD-B3-0721-L

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.

Effective 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	1850
L	554	604	654	704	754	804	854	904	954	1004	1054	1104	1154	1204	1254	1304	1354	1404	1454	1504	1554	1604	1654	1704	1754	1804	1854	1904	1954	2004	2054	2104	2154	2204	2254	2304
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	200
N	8	8	8	10	10	10	10	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26
M	2	2	2	3	3	3	3	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11
KG	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75	78	81	84	87	90	93	96	99	102	105	108	111	114	117	120	123	126	129	132

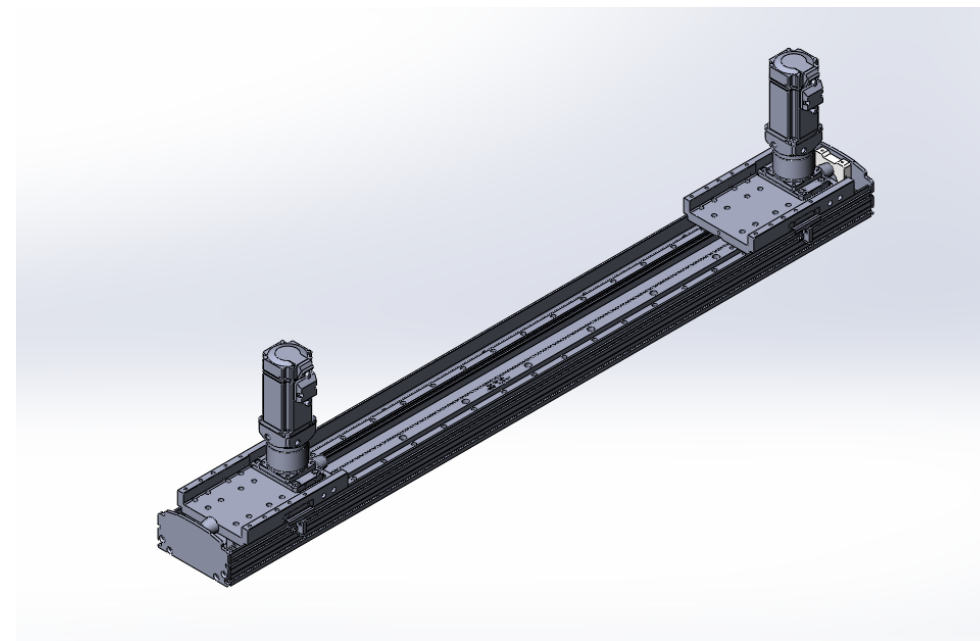
有效行 Stroke	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650
L	2354	2404	2454	2504	2554	2604	2654	2704	2754	2804	2854	2904	2954	3004	3054	3104	3154	3204	3254	3304	3354	3404	3454	3504	3554	3604	3654	3704	3754	3804	3854	3904	3954	4004	4054	4104
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	200
N	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36	36	36	38	38	38	38	40	40	40	42	42	42	42	44	
M	11	11	11	12	12	12	12	13	13	13	13	14	14	14	15	15	15	15	16	16	16	16	17	17	17	17	18	18	18	18	19	19	19	19	20	20
KG	135	138	141	144	147	150	153	156	159	162	165	168	171	174	177	180	183	186	189	192	195	198	201	204	207	210	213	216	219	222	225	228	231	234	237	240

有效行程 Stroke	3700	3750	3800	3850	3900	3950	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950	5000	5050	5100	5150	5200	5250	5300	5350	5400	5450
L	4154	4204	4254	4304	4354	4404	4454	4504	4554	4604	4654	4704	4754	4804	4854	4904	4954	5004	5054	5104	5154	5204	5254	5304	5354	5404	5454	5504	5554	5604	5654	5704	5754	5804	5854	5904
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	200
N	44	44	44	46	46	46	46	48	48	48	48	50	50	50	50	52	52	52	54	54	54	54	56	56	56	56	58	58	58	58	58	60	60	60	60	62
M	20	20	21	21	21	22	22	22	22	23	23	23	23	24	24	24	25	25	25	25	25	26	26	26	26	27	27	27	27	28	28	28	28	28	29	29
KG	243	246	249	252	255	258	261	264	267	270	273	276	279	282	285	288	291	294	297	300	303	306	309	312	315	318	321	324	327	330	333	336	339	342	345	348

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.

可选定制方案介绍(多个载重滑台)

Introduction to optional customized solutions (multiple load slides)

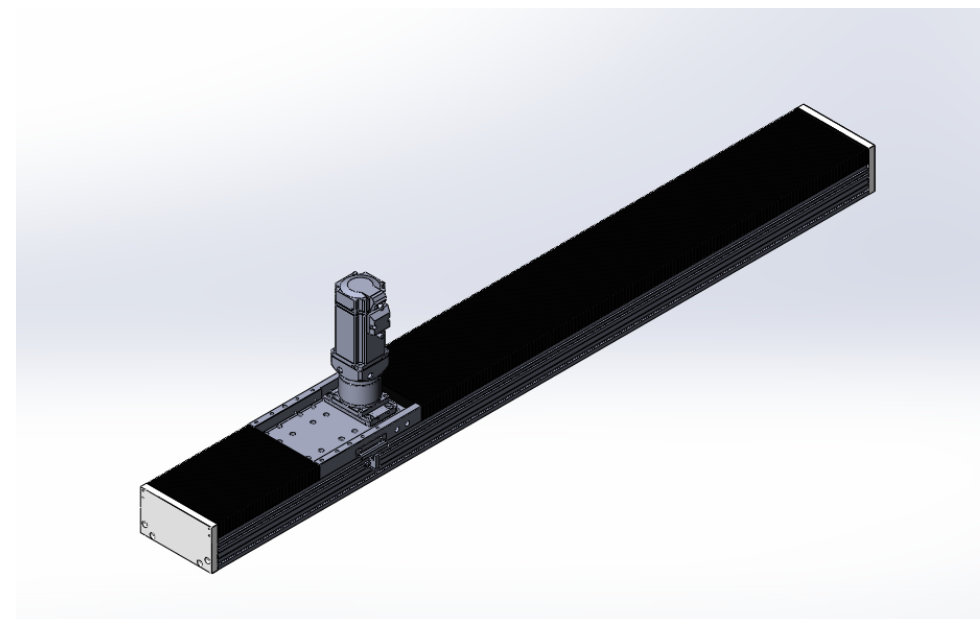


升级款:增加多个滑台,满足更多使用需求。

Upgraded version: add multiple axis to meet demands.

F款防尘型产品

F type dust-proof product



升级款:增加防尘风琴罩,可满足更多使用环境。

Upgraded version: add a dust-proof organ cover to meet more usage environments.



型号表达方式 Ordering method

TPA - G1 - HN2O3G2 - X500 - Y800 - Z200

品牌名称
Brand

组合类型
Combination type

A1、A2、A3、A4
G1、G2、G3、G4
F1、F2、F3、F4
P1、P2、P3、P4

组合方式
Combination mode

A 悬臂型
G 龙门型
F 十字型
P 极坐标型
A cantilever type
G gantry type
F cross
P polar coordinate type

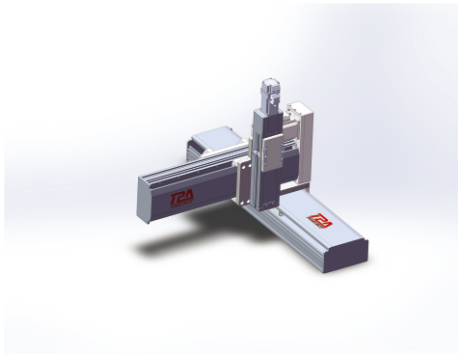
型号代码
Model code

X轴有效行程
X-Axis Valid Stroke

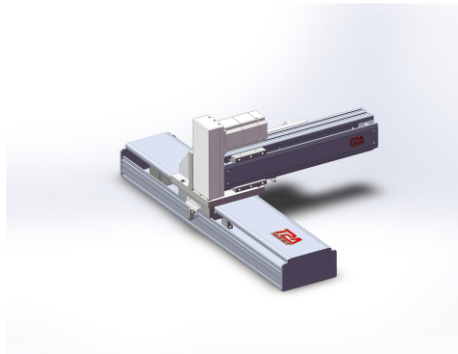
Y轴有效行程
Y-Axis Valid Stroke

Z轴有效行程
Z-Axis Valid Stroke

多轴组合形式
Multiaxial combination type



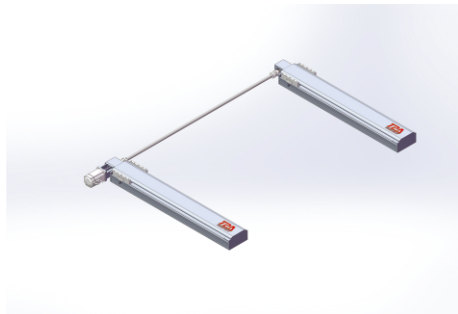
三轴悬臂型-A1
3-Axis cantilever type -A1



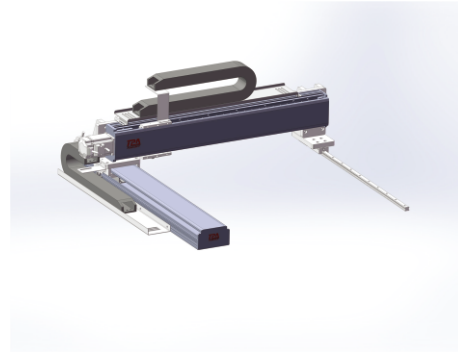
两轴悬臂型-A2
2-Axis cantilever type -A2



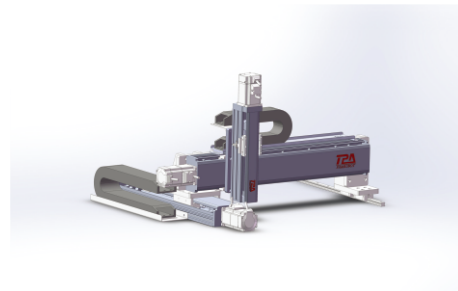
三轴悬臂型-A3
3-Axis cantilever type -A3



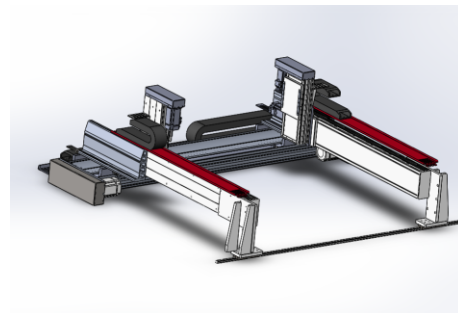
两轴连杆-G1
2-Axis connecting rod -G1



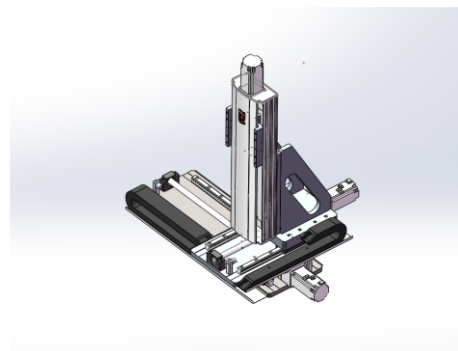
两轴龙门加辅轨-G2
2-Axis gantry plus auxiliary rail



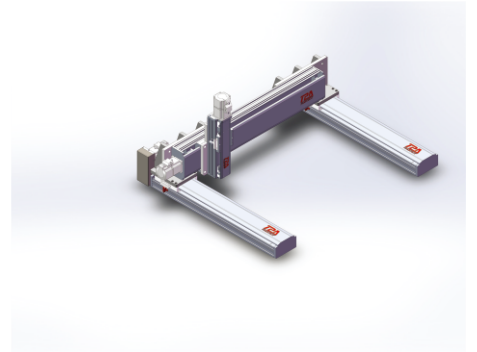
三轴龙门加辅轨-G4
3-Axis gantry plus auxiliary rail



双横梁龙门加辅轨-G5
Double beam gantry plus auxiliary rail



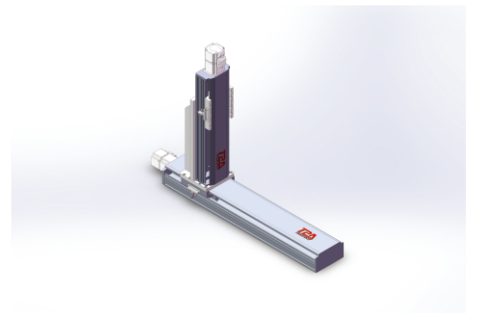
极坐标三轴-P2
Polar coordinates 3-Axis



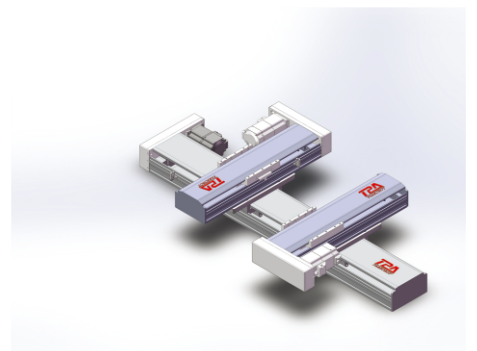
三轴龙门-G3
3-Axis gantry



双横梁龙门-G4
Double beam gantry



极坐标两轴-P1
Polar coordinates 3-Axis



两轴对位-F1
2-Axis alignment

HNR

HCR

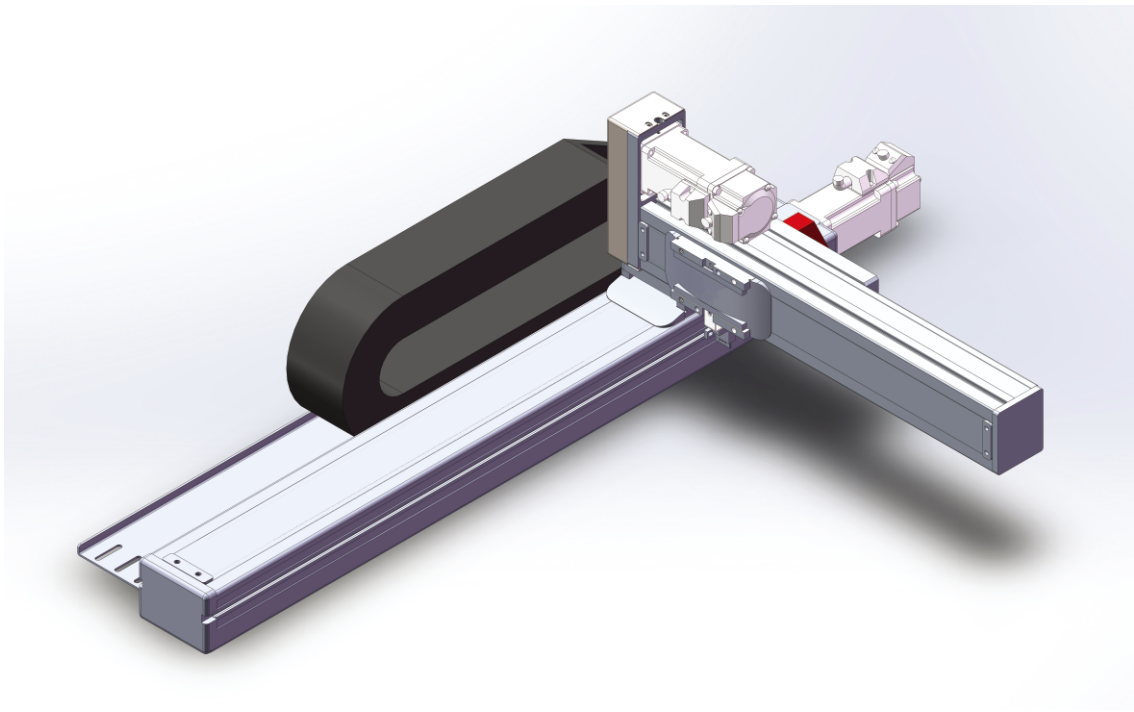
HNB

HCB

HNT

XYZ

参考资料
Reference data

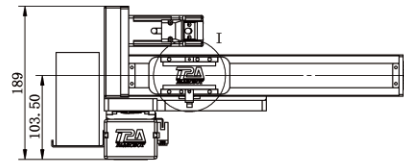
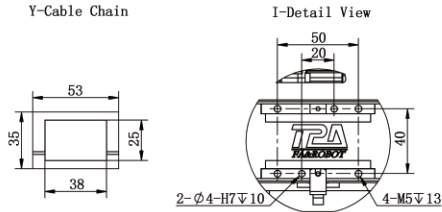


多轴组合对应参数表
Multi-axis combination corresponding parameter table

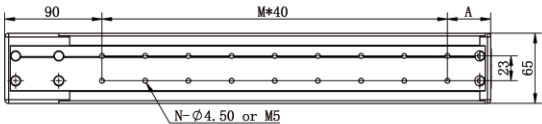
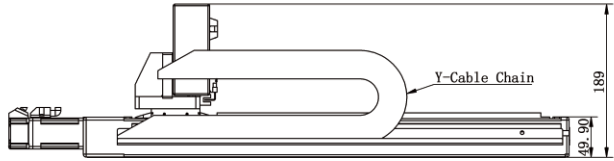
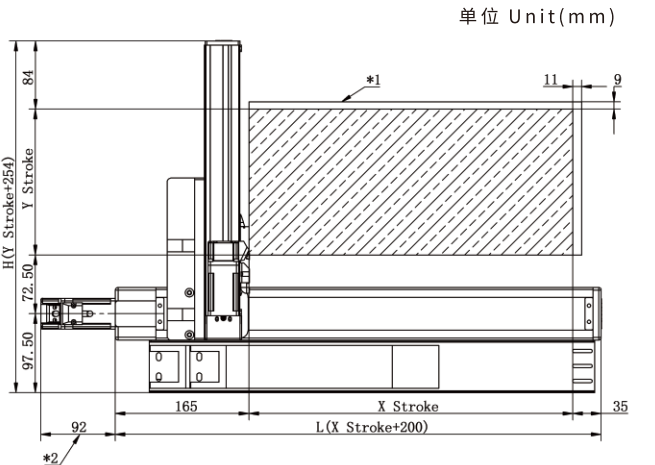
项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/S)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	Y轴
参数 Parameter	65	50	500	500	700	350	100	100	±0.02	±0.02	5

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

两轴悬臂型-A2
2-Axis cantilever type -A2



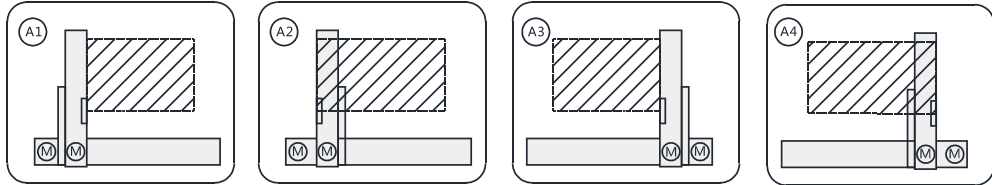
*1: 原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2: 电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.



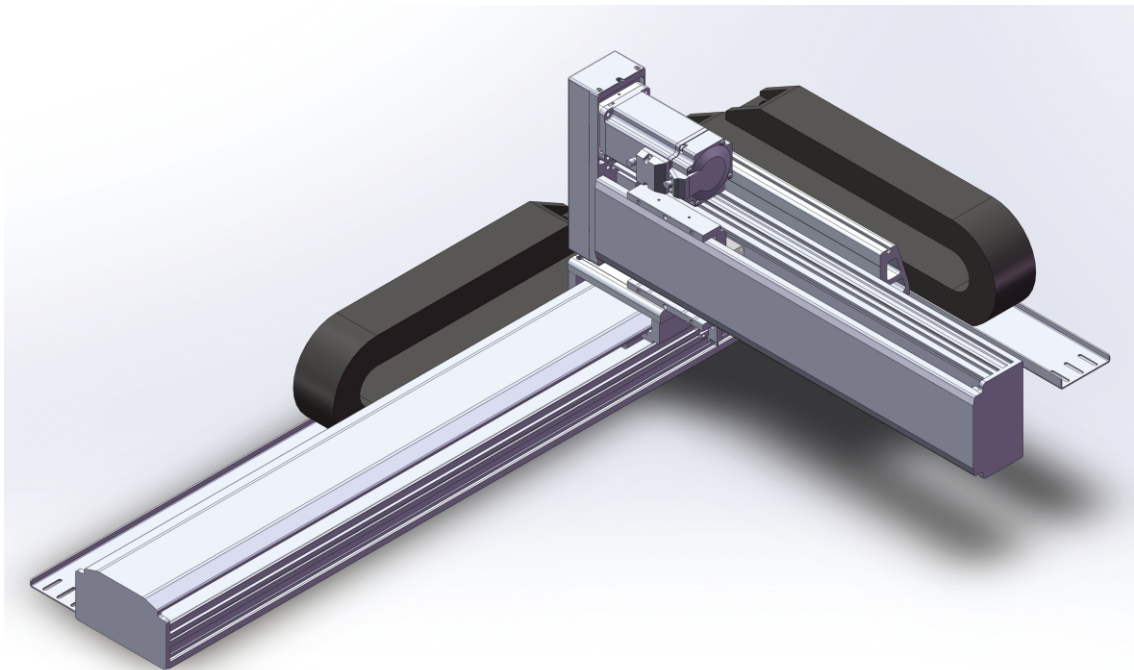
X轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700
L	300	350	400	450	500	550	600	650	700	750	800	850	900
A	50	60	30	40	50	60	30	40	50	60	30	40	50
N	10	12	16	18	20	22	26	28	30	32	36	38	40
M	4	5	7	8	9	10	12	13	14	15	17	18	19
最快速度 Max Speed(mm/s)	500											450	400

Y轴行程 Y Stroke(mm)	100	150	200	250	300	350
H	354	404	454	504	554	604
最快速度 Max Speed(mm/s)	500					

组合方向 Combination direction

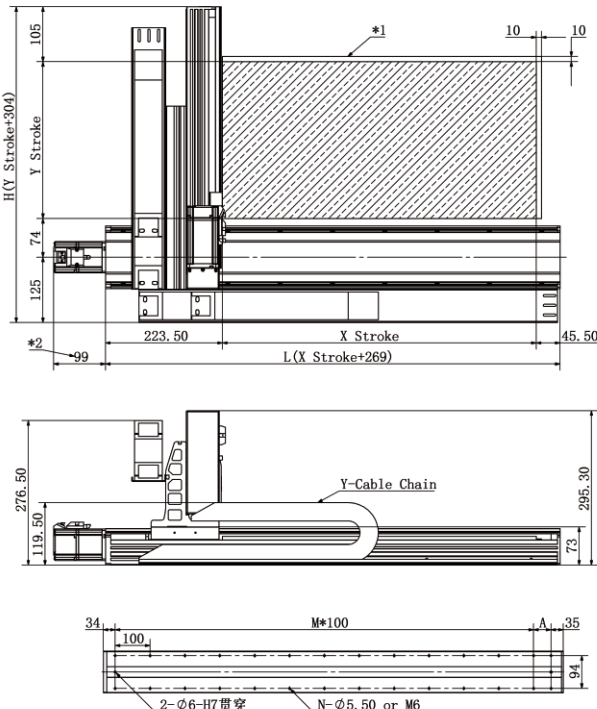
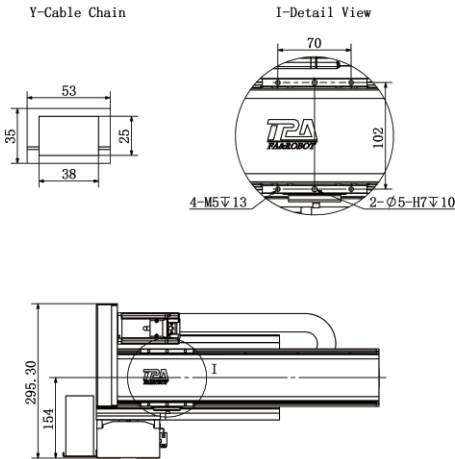


补充: 最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



悬臂型-A2
Cantilever type -A2

单位 Unit(mm)



*1: 原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.

*2: 电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

多轴组合对应参数表
Multi-axis combination corresponding parameter table

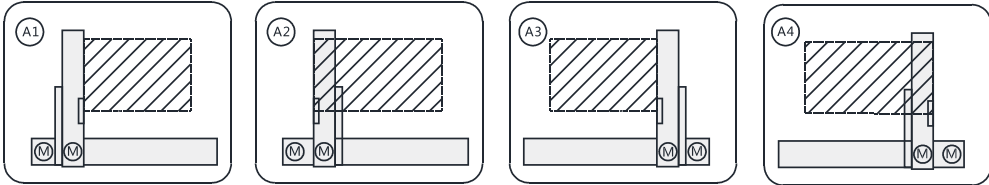
项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/S)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	Y轴
参数 Parameter	120	110	1000	1000	1050	550	200	200	±0.02	±0.02	8

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

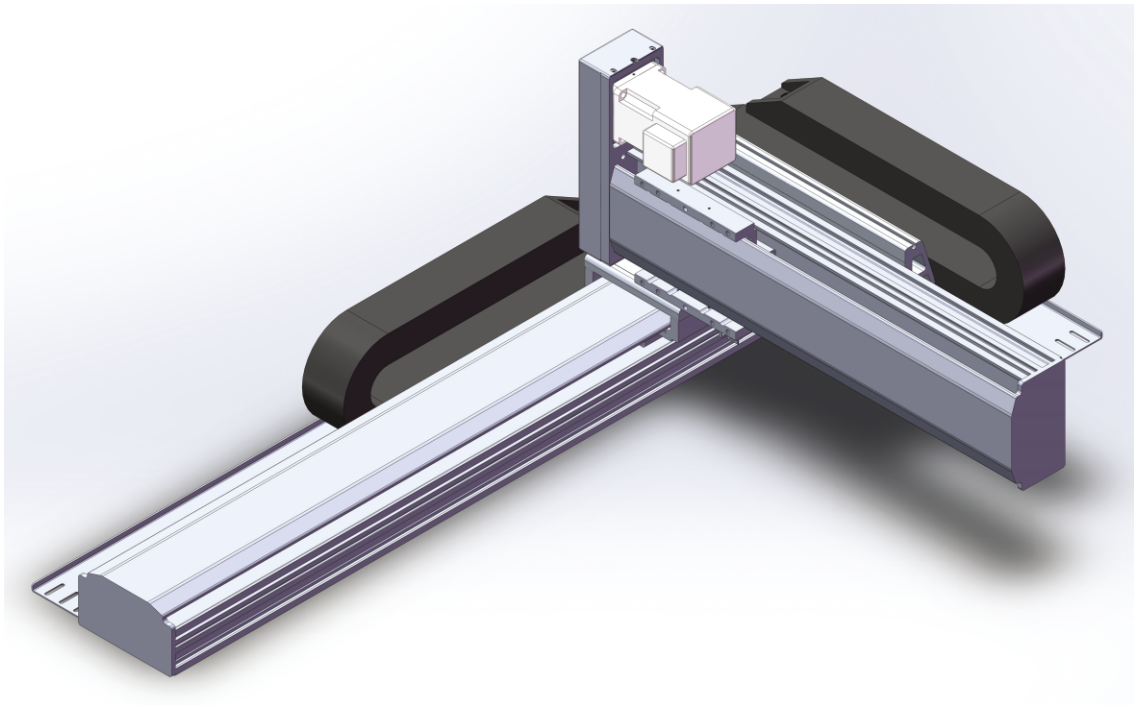
X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
L	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	
N	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	
M	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	
最快速度 Max Speed(mm/s)	1000															900	800	700	600	500	400

Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550
H	404	454	504	554	604	654	704	754	804	854
最快速度 Max Speed(mm/s)	1000									

组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



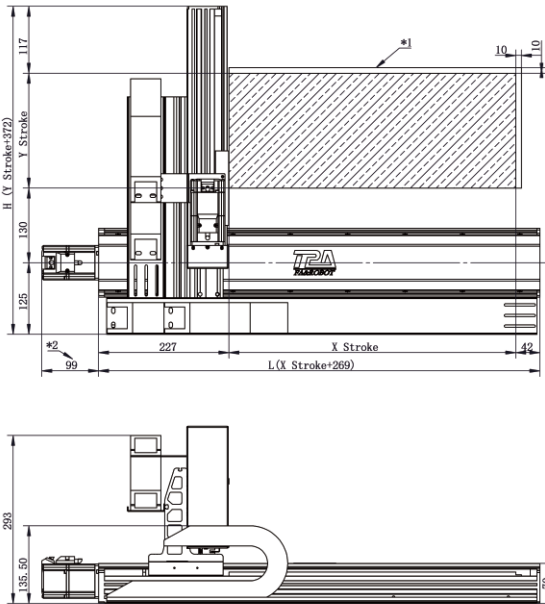
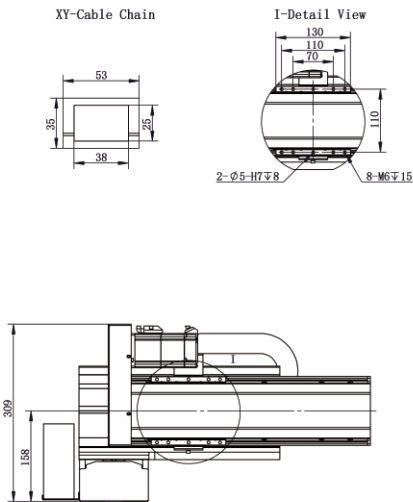
多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/S)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	Y轴
参数 Parameter	120	120	1000	1000	1050	550	400	200	±0.02	±0.02	11

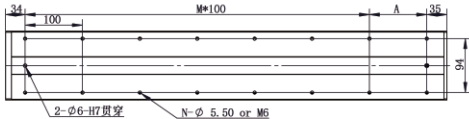
说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

悬臂型-A2
Cantilever type -A2

单位 Unit(mm)



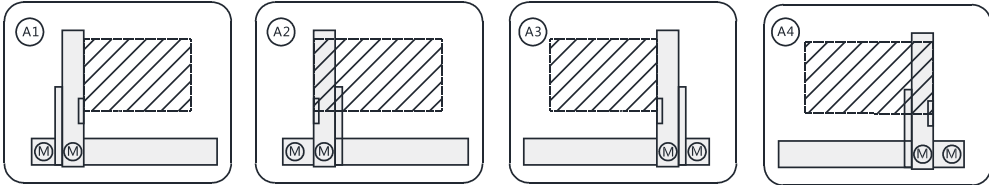
*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.



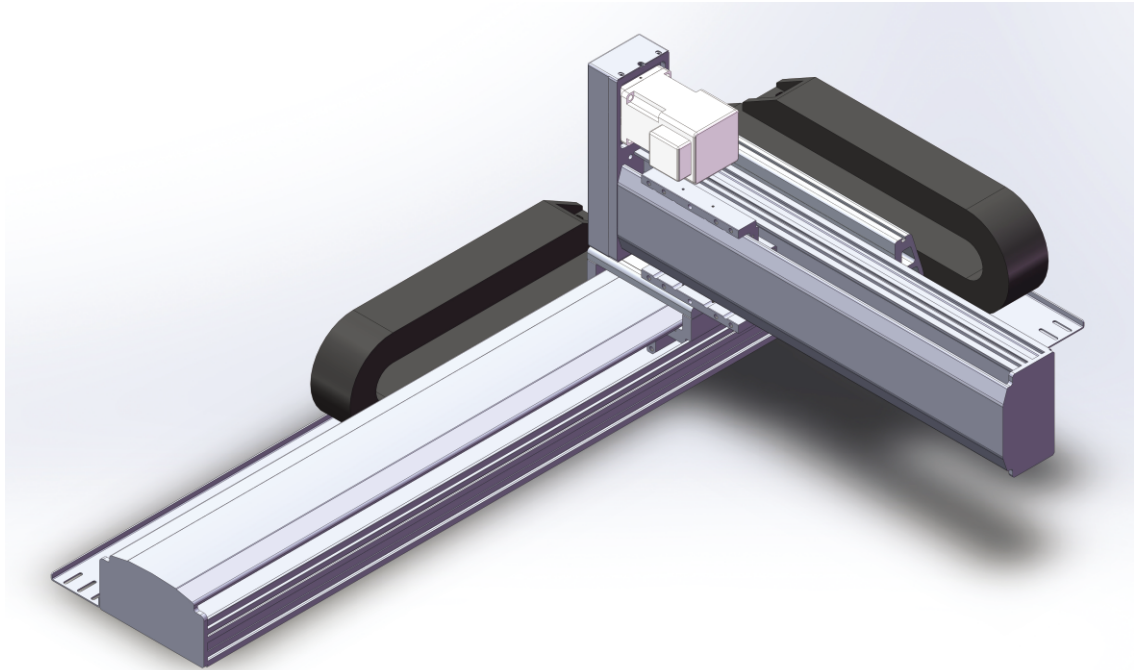
X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
L	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	
N	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	
M	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	
最快速度 Max Speed(mm/s)	1000															900	800	700	600	500	400

Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550
H	472	522	572	622	672	722	772	822	872	922
最快速度 Max Speed(mm/s)	1000									

组合方向 Combination direction

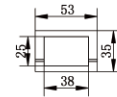


补充: 最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.

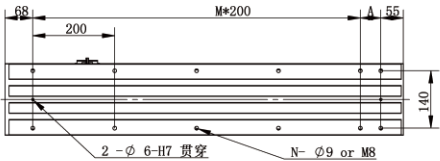
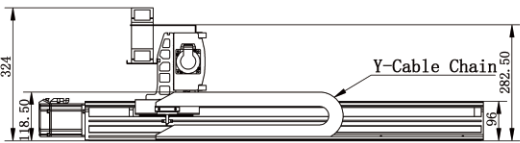
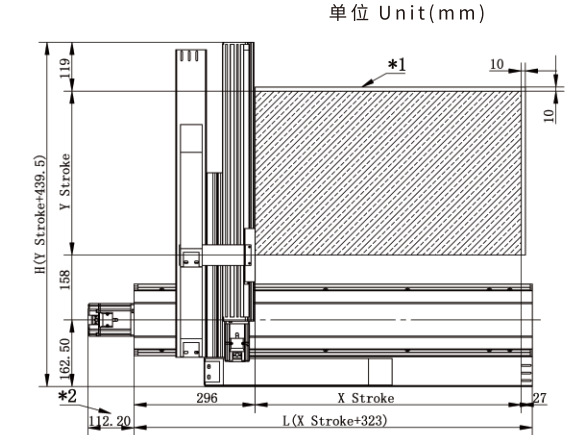
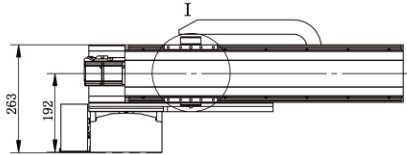
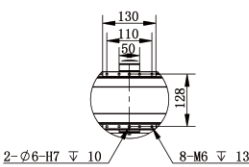


悬臂型-A2
Cantilever type -A2

Y-Cable Chain



I-Drtail View



*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

多轴组合对应参数表
Multi-axis combination corresponding parameter table

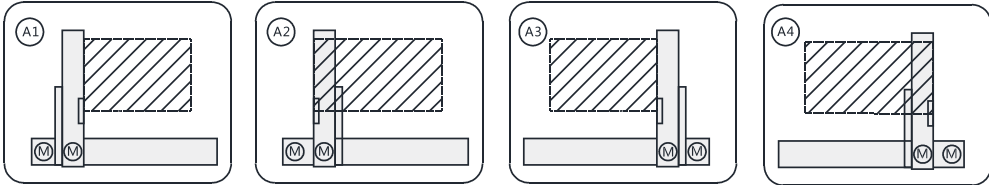
项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/S)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	Y轴
参数 Parameter	140	120	1000	1000	1200	650	400	200	±0.02	±0.02	20

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

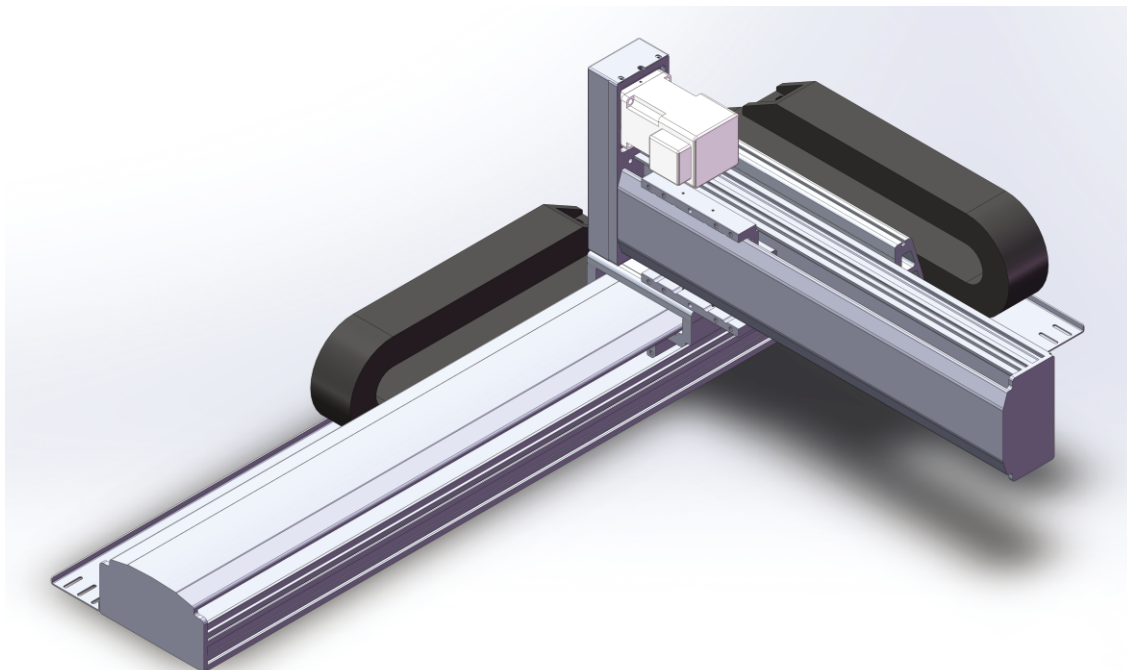
X 轴行程 XStroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	
L	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	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	
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	
最快速度 Max Speed(mm/s)	1000															900	800	700	600	500	400	300	200	100

Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650
H	421	471	521	571	621	671	721	771	821	871	921	971
最快速度 Max Speed(mm/s)	1000											

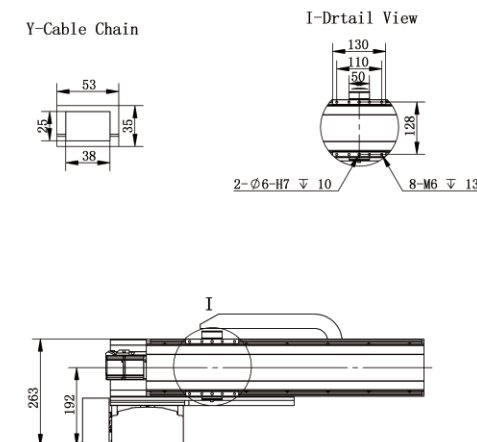
组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.

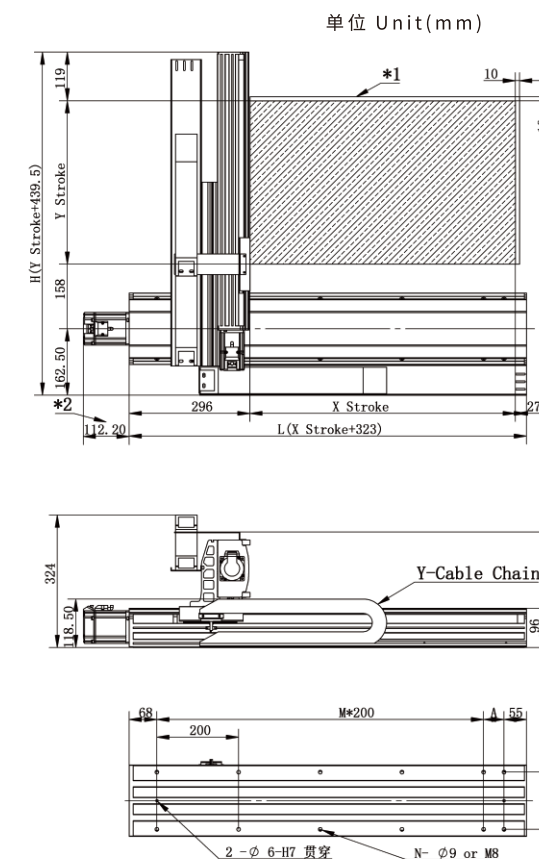


悬臂型-A2
Cantilever type -A2



*1: 原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.

*2: 电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.



多轴组合对应参数表
Multi-axis combination corresponding parameter table

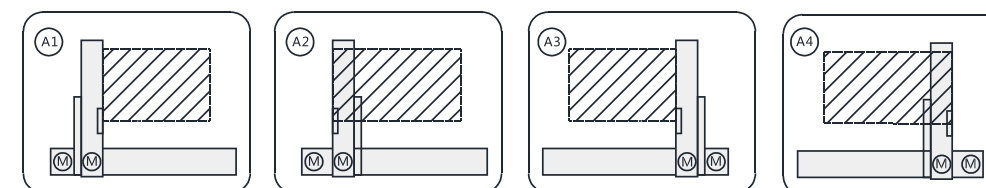
项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/S)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	Y轴
参数 Parameter	175	140	1250	1000	1250	650	750	400	±0.02	±0.02	30

说明:Y 轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

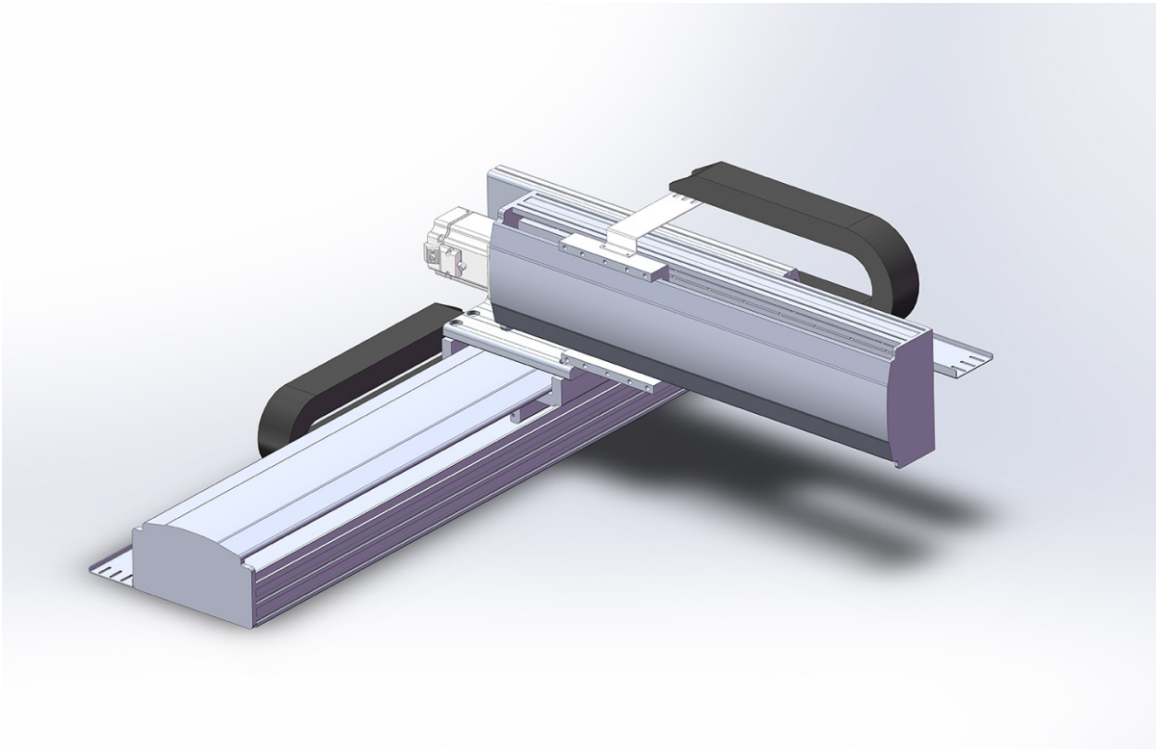
X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	
L	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	1323	1373	1423	1473	1523	1573	
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	
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	
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	
最快速度 Max Speed(mm/s)	1000																900			800		700		600	

[illegible]

组合方向 Combination direction



补充：最快速度表示该行程内可使用的安全速度，若超过此速度，滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



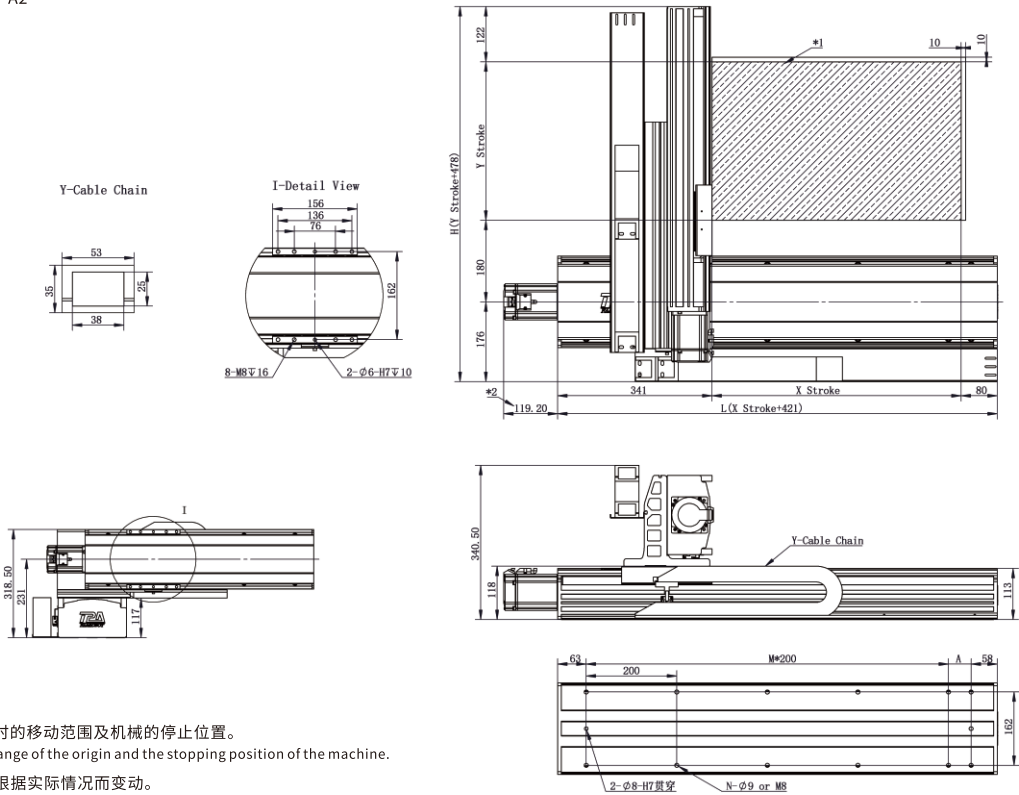
多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/s)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	Y轴
参数 Parameter	202	175	1600	1250	1500	750	750	750	±0.02	±0.02	50

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

悬臂型-A2
Cantilever type -A2

单位 Unit(mm)

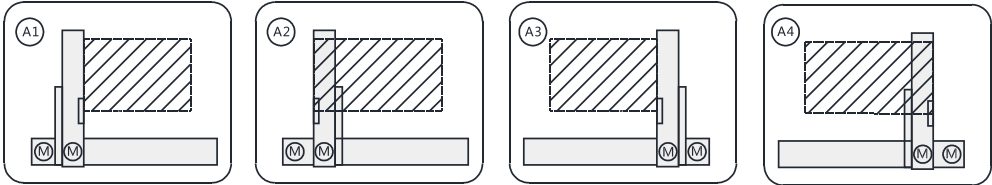


*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

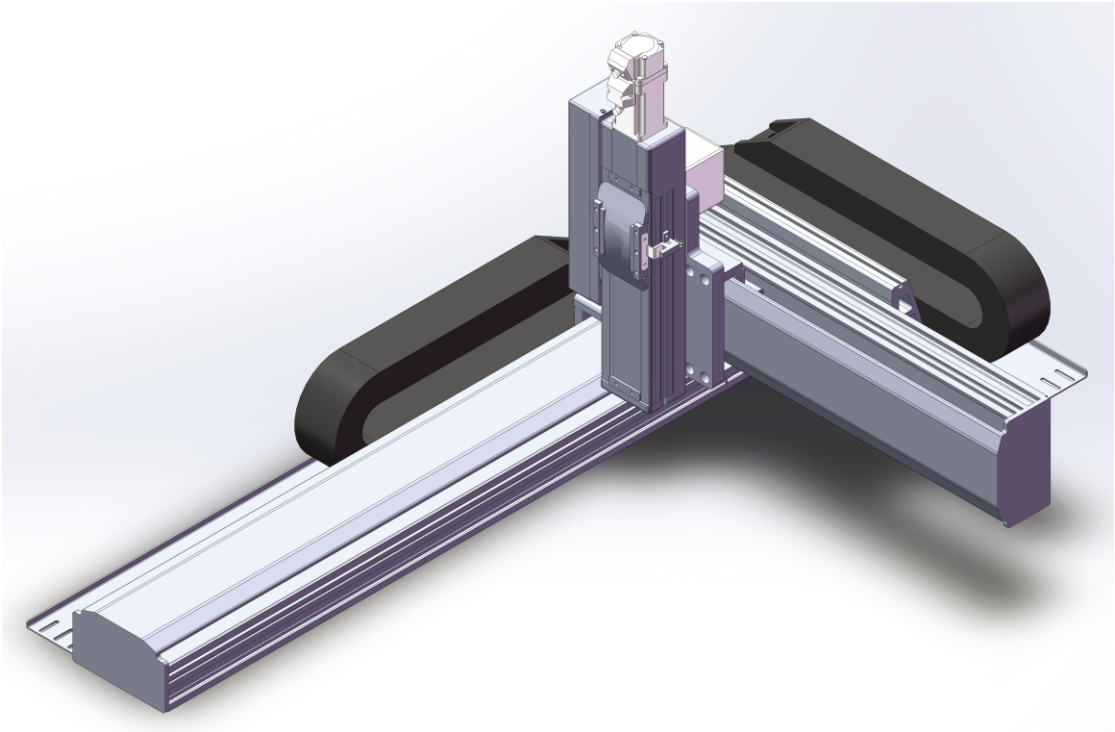
X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	
L	521	571	621	671	721	771	821	871	921	971	1021	1071	1121	1171	1221	1271	1321	1371	1421	1471	1521	1571	1621	1671	1721	1771	1821	1871	1921	
A	200	50	100	150	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	
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	
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	
最快速度 Max Speed(mm/s)	1600																		1500		1400		1200		1000		800		600	

Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750
H	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228
最快速度 Max Speed(mm/s)	1250													

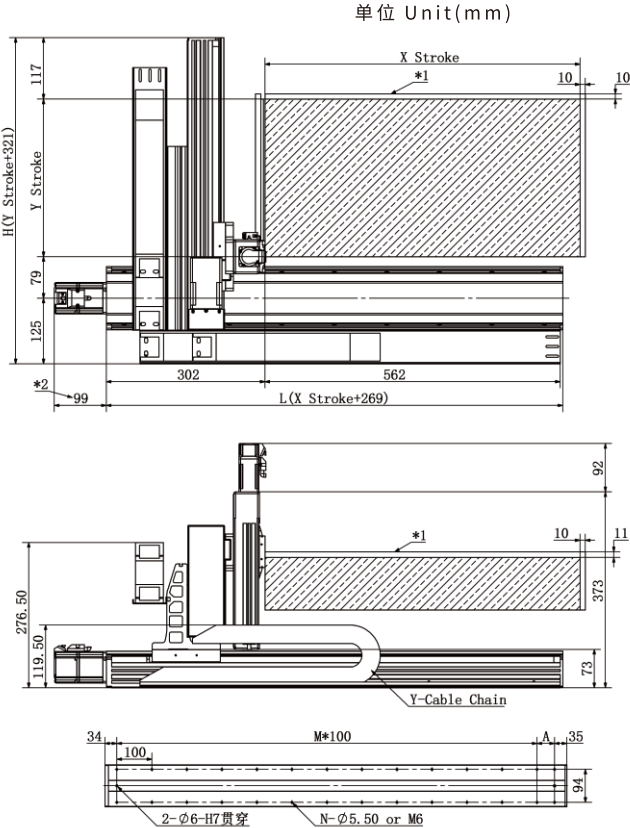
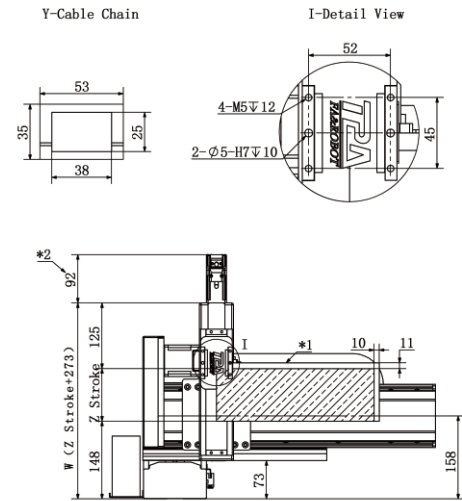
组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



悬臂型-A1
Cantilever type -A1



*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)			最大速度 Maximum speed (mm/S)			最大行程 Maximum stroke (mm)			建议马达功率 Motor power (W)			重复定位精度 Repeated positioning accuracy (mm)			最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	Z轴
参数 Parameter	120	120	65	1000	1000	500	1050	450	250	200	200	100	±0.02			5

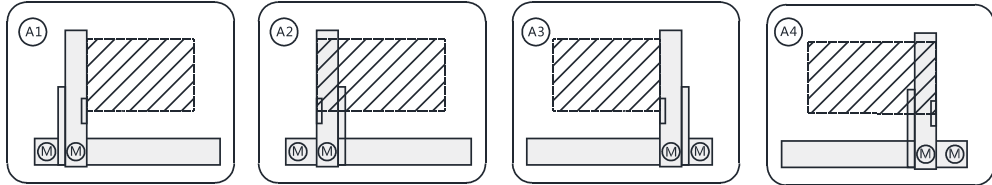
说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

X轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
M	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
最快速度 Max Speed(mm/s)	1000															720	640	560	480	320

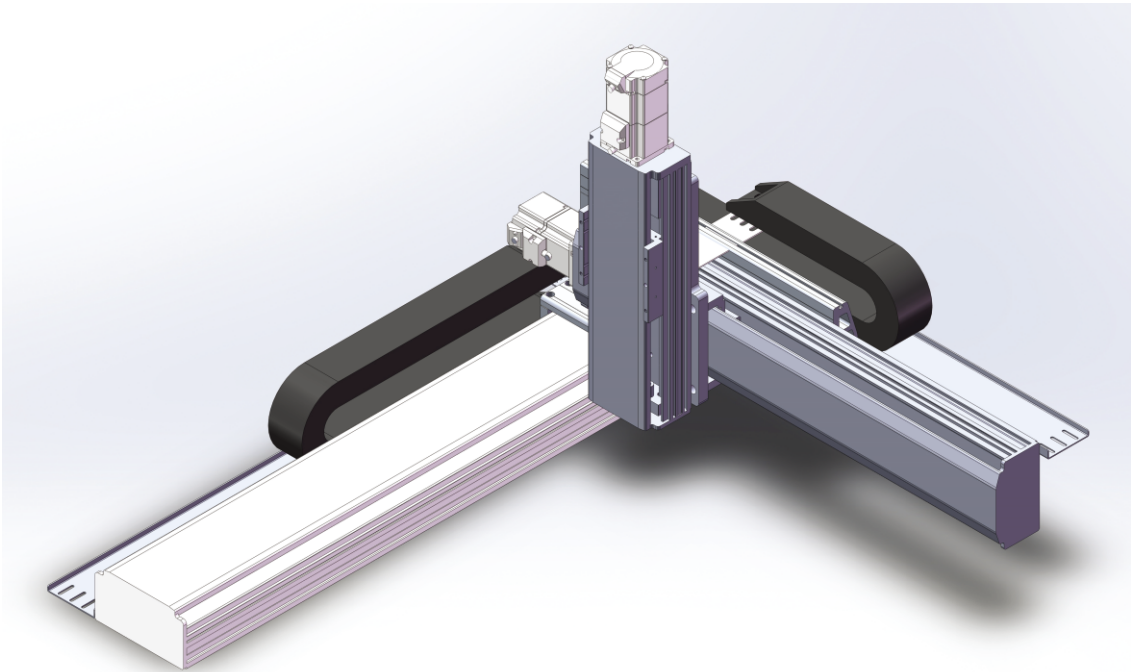
Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650
H	421	471	521	571	621	671	721	771	821	871	921	971
最快速度 Max Speed(mm/s)	1000											

Z轴行程 Z Stroke(mm)	100	150	200	250
W	373	423	473	523
最快速度 Max Speed(mm/s)	500			

组合方向 Combination direction

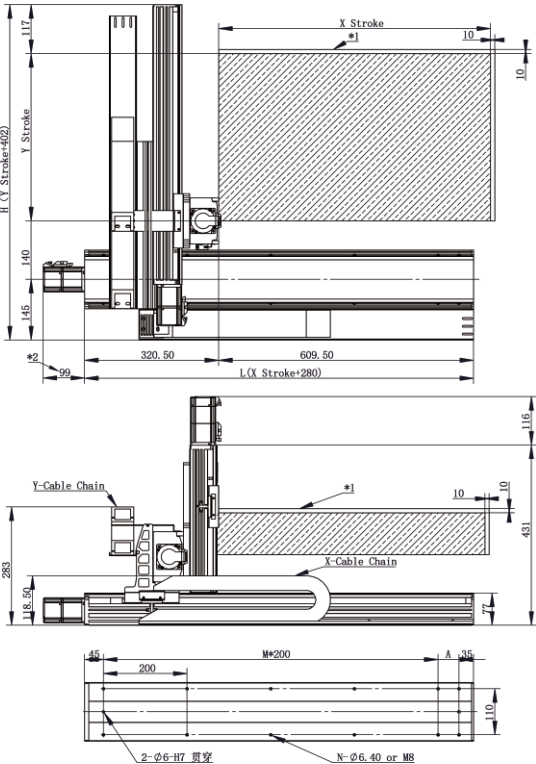
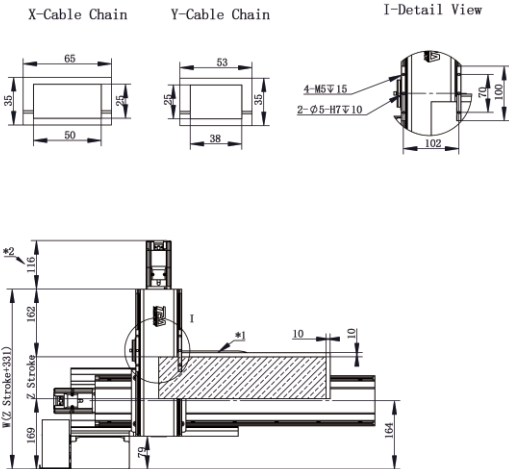


补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



悬臂型-A1
Cantilever type -A1

单位 Unit(mm)



*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)			最大速度 Maximum speed (mm/S)			最大行程 Maximum stroke (mm)			建议马达功率 Motor power (W)			重复定位精度 Repeated positioning accuracy (mm)			最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	Z轴
参数 Parameter	140	120	110	1000	1000	1000	1050	650	300	400	200	200	±0.02			10

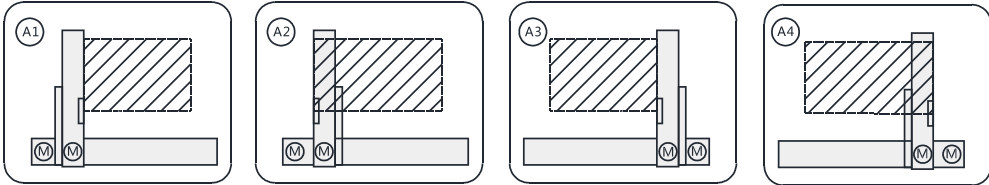
说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
L	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	
最快速度 Max Speed(mm/s)	1000															900	800	700	600	500	400

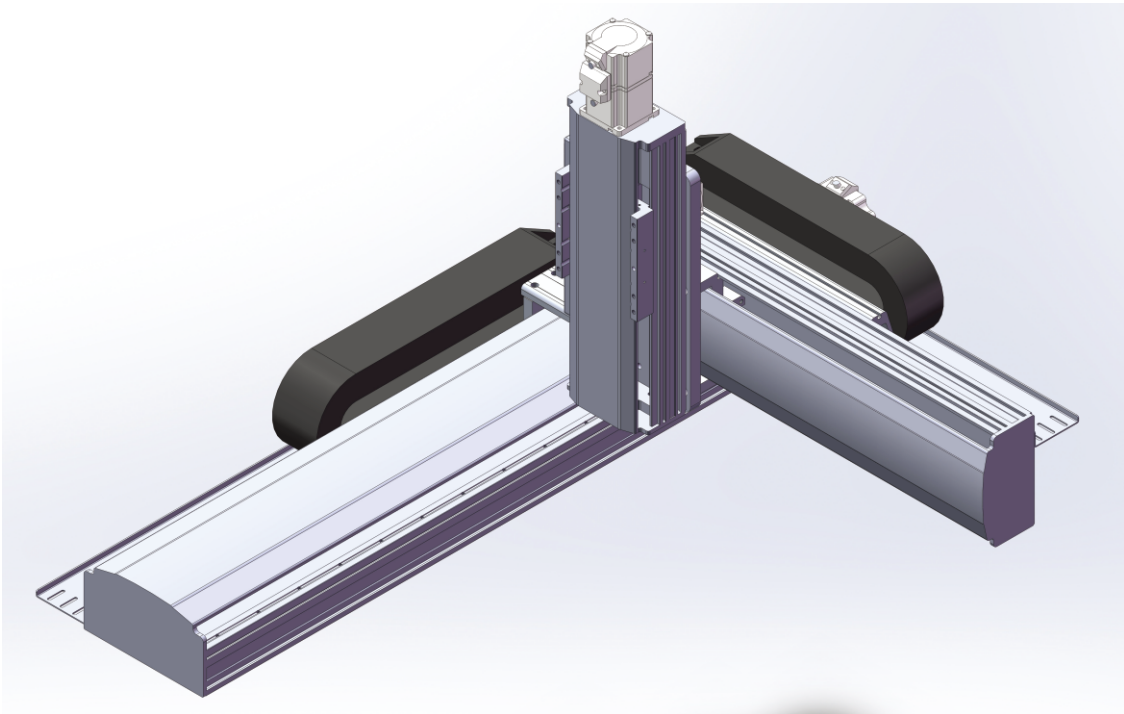
Z轴行程 Z Stroke(mm)	100	150	200	250	300	350	400	450	500
H	502	552	602	652	702	752	802	852	902
最快速度 Max Speed(mm/s)	1000								

Y轴行程 Y Stroke(mm)	100	150	200	250	300
W	481	431	531	581	631
最快速度 Max Speed(mm/s)	1000				

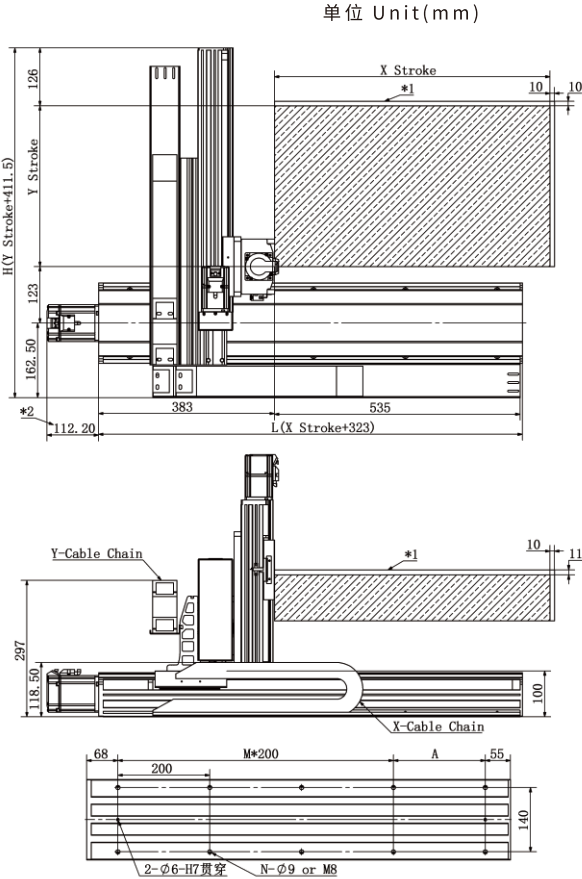
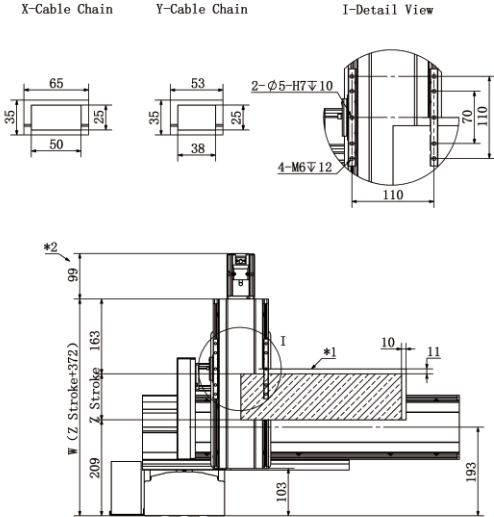
组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



悬臂型-A1
Cantilever type -A1



*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)			最大速度 Maximum speed (mm/S)			最大行程 Maximum stroke (mm)			建议马达功率 Motor power (W)			重复定位精度 Repeated positioning accuracy (mm)			最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	Z轴
参数 Parameter	175	140	120	1250	1000	1000	1450	500	300	750	400	200	±0.02			14

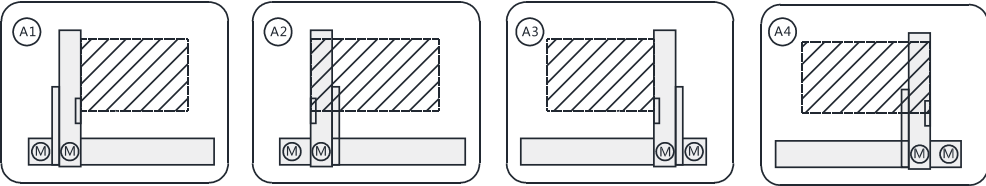
说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

X 轴行程 X Stroke(mm)	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			
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			
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			
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			
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			
最快速度 Max Speed(mm/s)	1250																		1000			800		650		500		350		200	

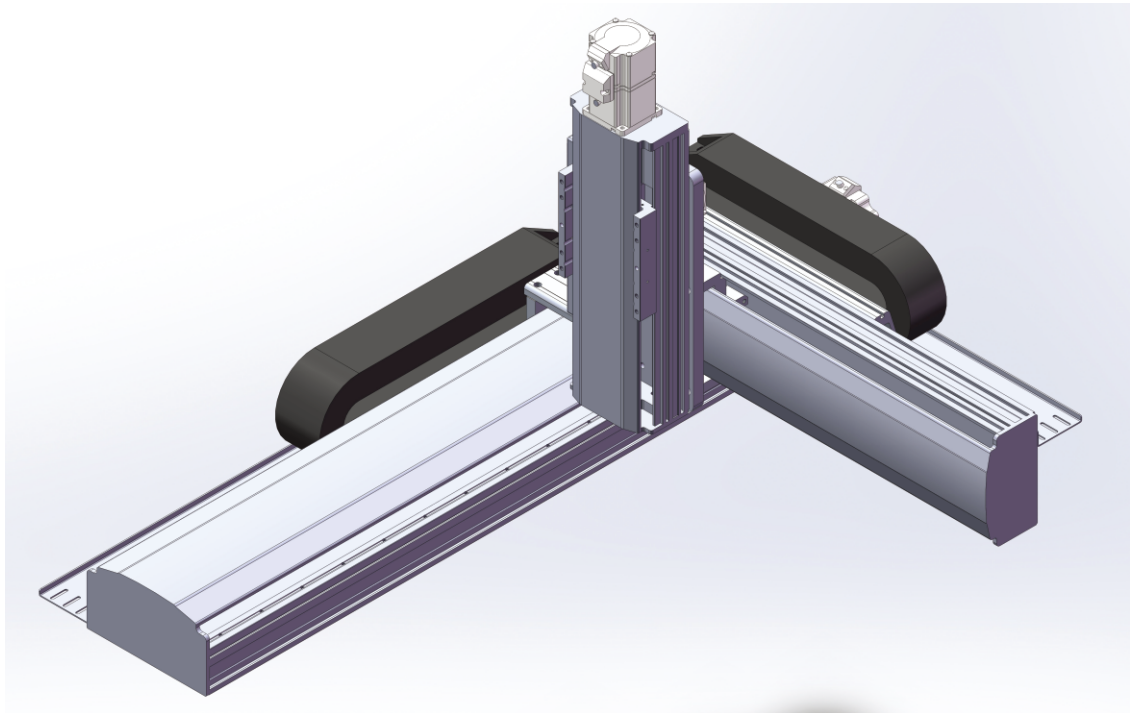
Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500
H	512	562	714	764	815	865	613	663	916
最快速度 Max Speed(mm/s)	1000								

Z轴行程 Z Stroke(mm)	100	150	200	250	300
W	472	522	572	622	672
最快速度 Max Speed(mm/s)	1000				

组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.

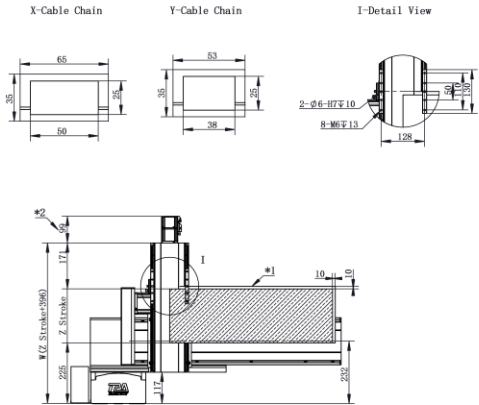


多轴组合对应参数表
Multi-axis combination corresponding parameter table

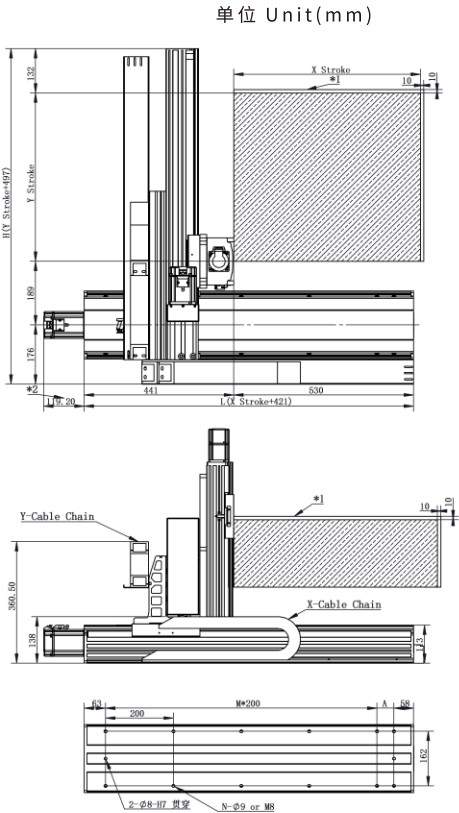
项目 Item	本体宽度 Ontology width (mm)			最大速度 Maximum speed (mm/s)			最大行程 Maximum stroke (mm)			建议马达功率 Motor power (W)			重复定位精度 Repeated positioning accuracy (mm)			最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	Z轴
参数 Parameter	202	175	140	1600	1250	1000	1500	750	550	750	750	400	±0.02			23

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

悬臂型-A1
Cantilever type -A1



*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

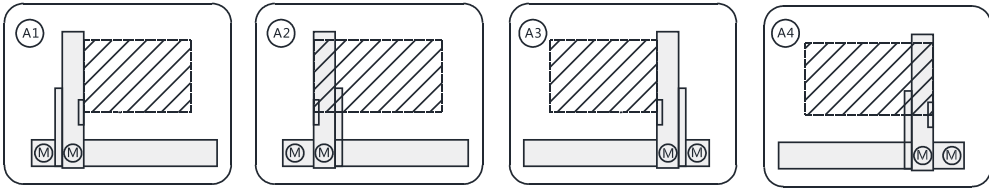


X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	521	571	621	671	721	771	821	871	921	971	1021	1071	1121	1171	1221	1271	1321	1371	1421	1471	1521	1571	1621	1671	1721	1771	1821	1871	1921
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
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
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
最快速度 Max Speed(mm/s)	1600																	1500		1400		1200		1000		800		600	

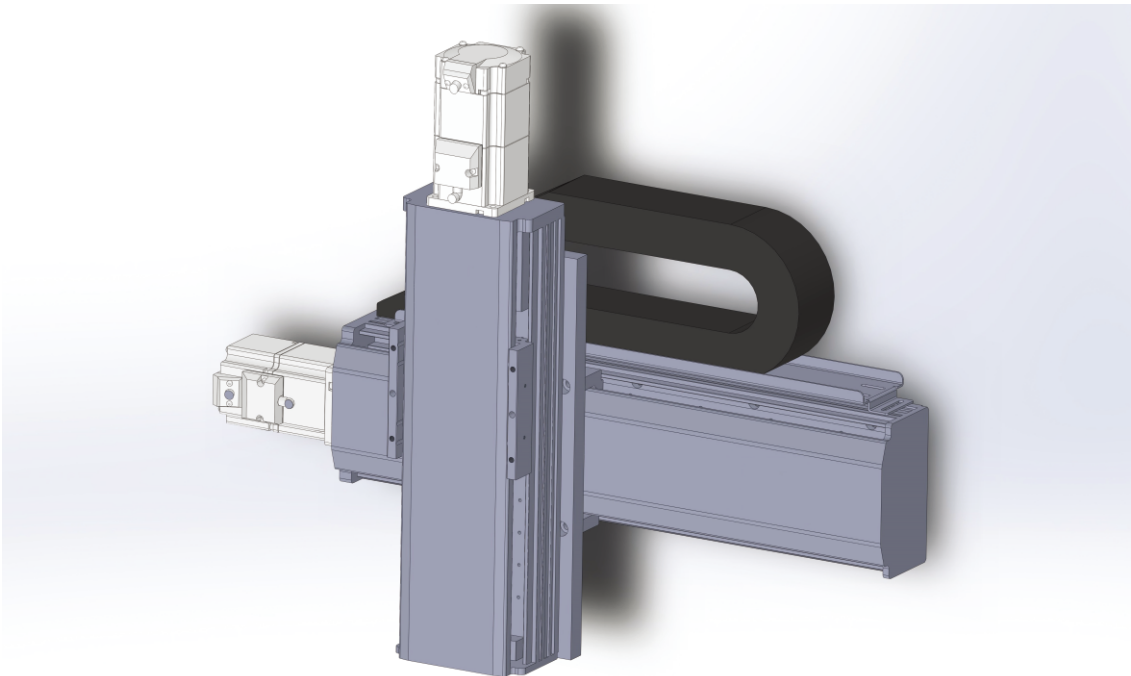
Z轴行程 Z Stroke(mm)	100	150	200	250	300	350	400	450	500	550
W	496	546	596	646	696	746	796	846	896	946
最快速度 Max Speed(mm/s)	1000									

Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750
H	597	647	697	747	797	847	897	947	997	1047	1097	1147	1197	1247
最快速度 Max Speed(mm/s)	1000													

组合方向 Combination direction



补充: 最快速度表示该行程内可使用的安全速度, 若超过此速度, 滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



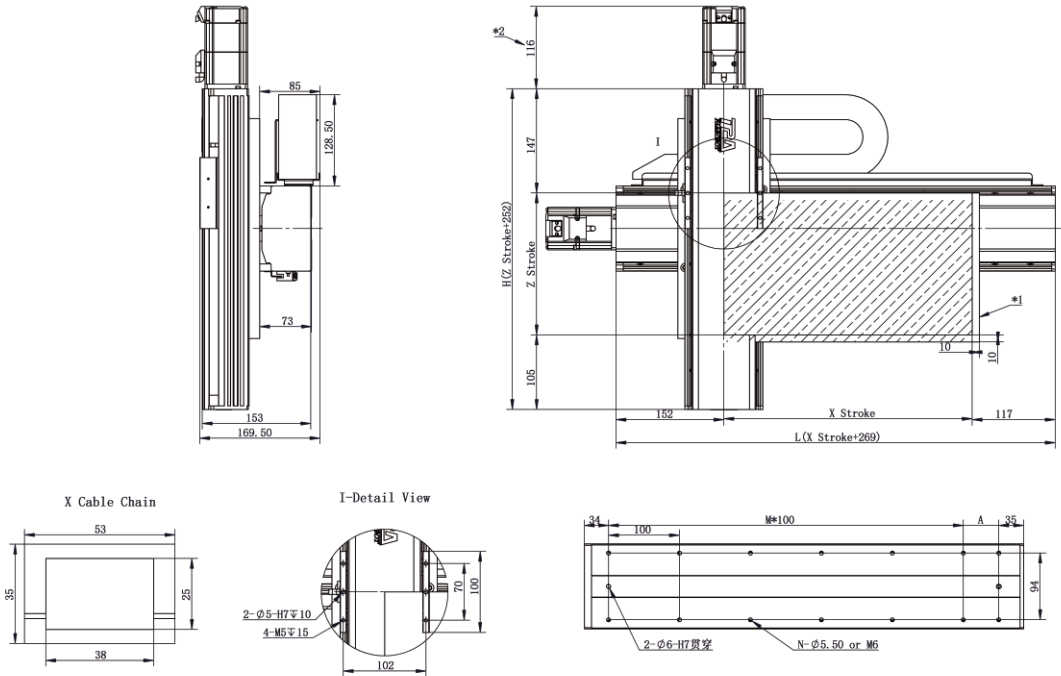
多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/S)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	Z轴
参数 Parameter	120	110	1000	1000	1050	350	200	200	±0.02	±0.02	8

说明:Y 轴行程越长, 负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

十字型-F1
Cross type -F1

单位 Unit(mm)



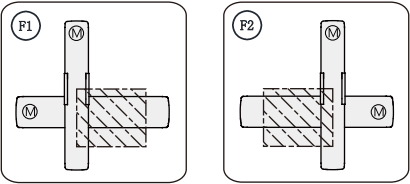
*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.

*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

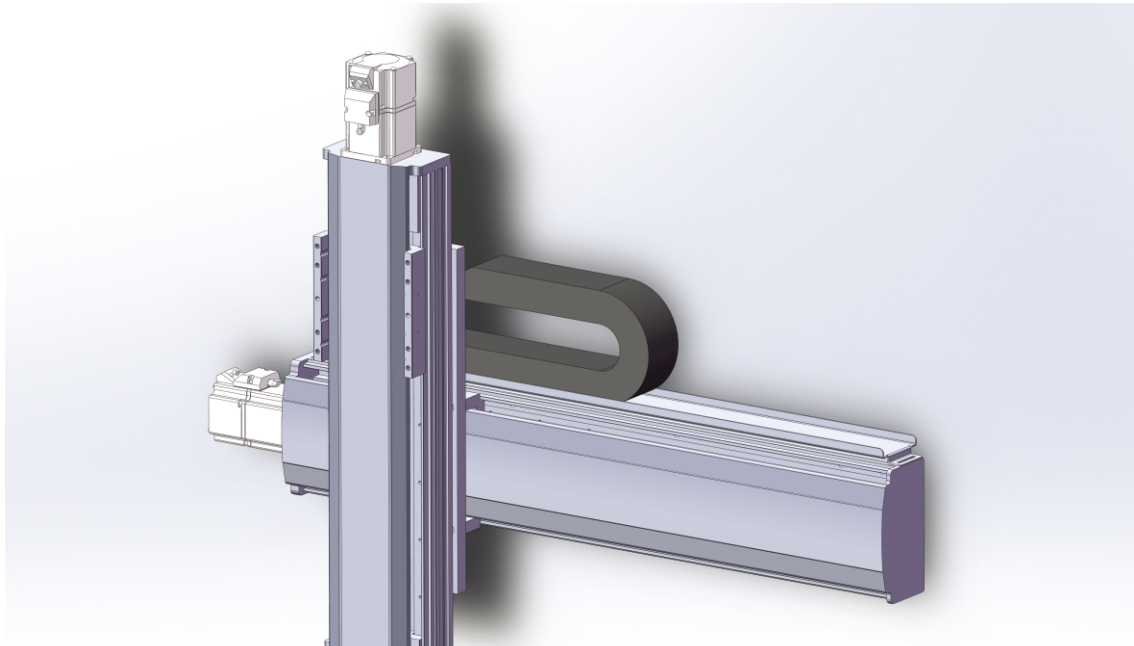
X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
N	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
M	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
最快速度 Max Speed(mm/s)	1000															900	800	700	600	400

Z 轴行程 Z Stroke(mm)	100	150	200	250	300	350
H	352	402	452	502	552	602
最快速度 Max Speed(mm/s)	1000					

组合方向 Combination direction

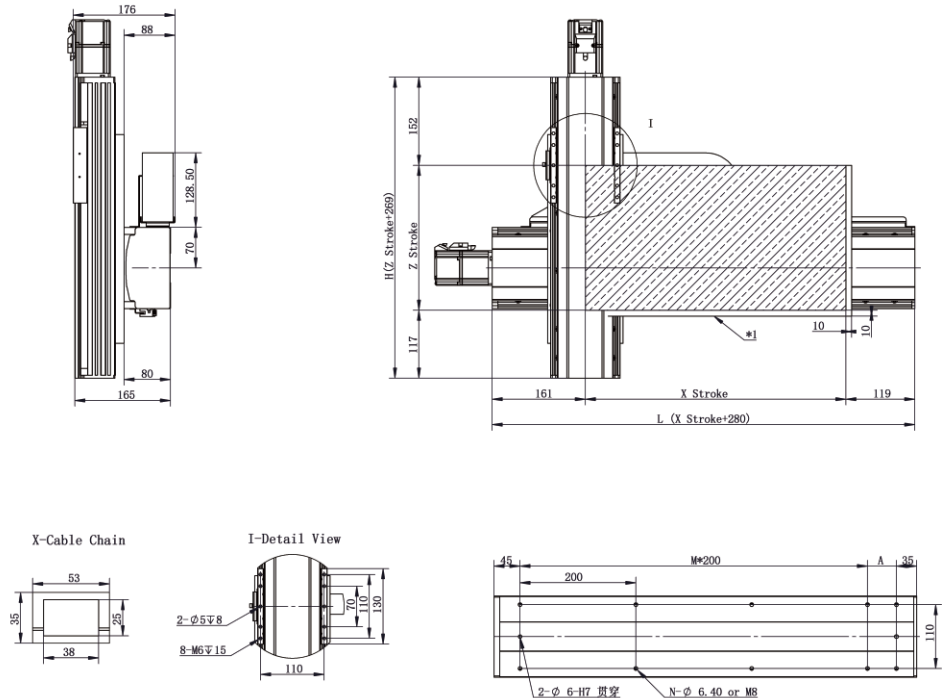


补充: 最快速度表示该行程内可使用的安全速度, 若超过此速度, 滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



十字型-F1
Cross type -F1

单位 Unit(mm)



*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.

*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

多轴组合对应参数表
Multi-axis combination corresponding parameter table

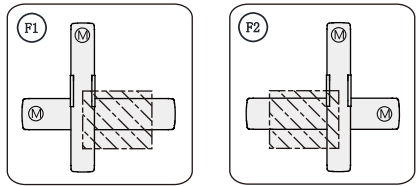
项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/s)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	Z轴
参数 Parameter	140	120	1000	1000	1050	350	400	200	±0.02	±0.02	15

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

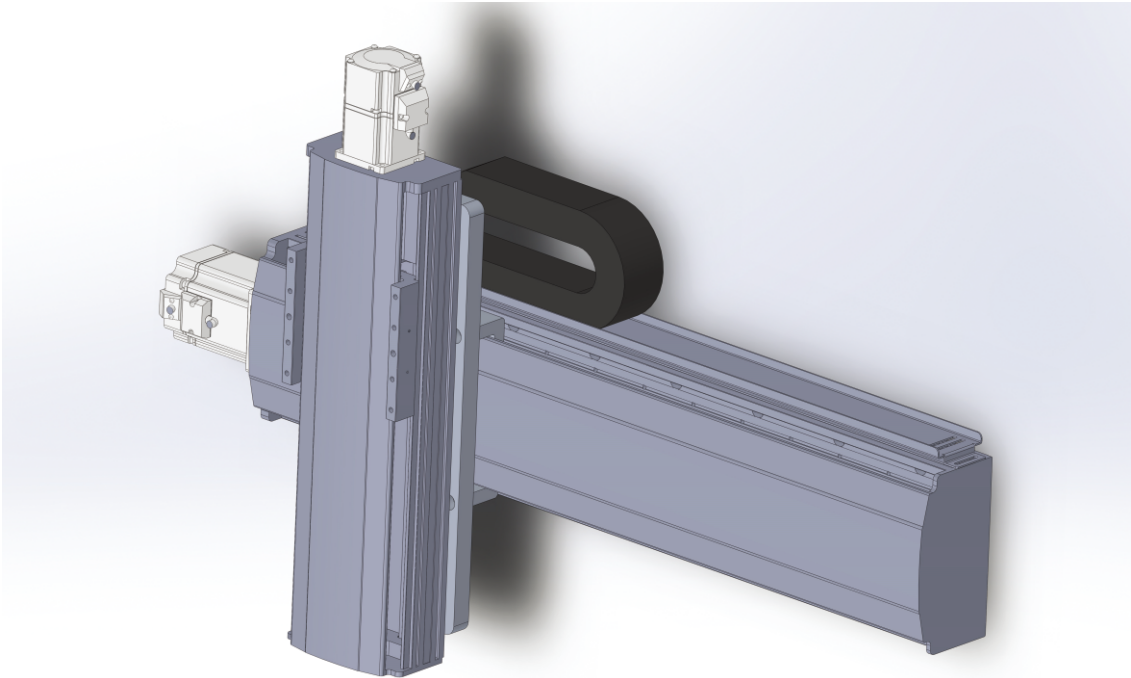
X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
L	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	
M	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	
最快速度 Max Speed(mm/s)	1000															900	800	700	600	500	400

Z轴行程 Z Stroke(mm)	100	150	200	250	300	350
H	369	419	469	519	569	619
最快速度 Max Speed(mm/s)	1000					

组合方向 Combination direction

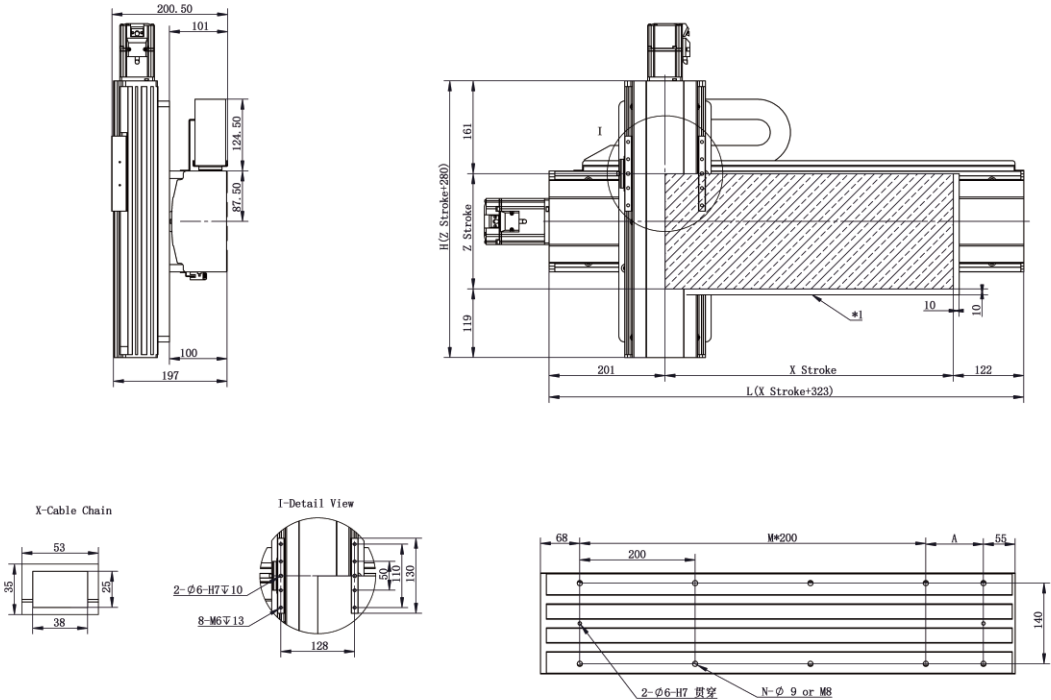


补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



十字型-F1
Cross type -F1

单位 Unit(mm)



*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.

*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

多轴组合对应参数表
Multi-axis combination corresponding parameter table

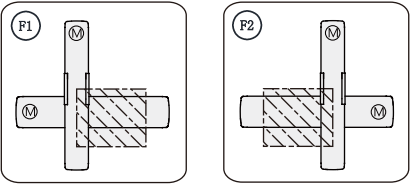
项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/s)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	Z轴
参数 Parameter	175	140	1250	1000	1250	550	750	400	±0.02	±0.02	22

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

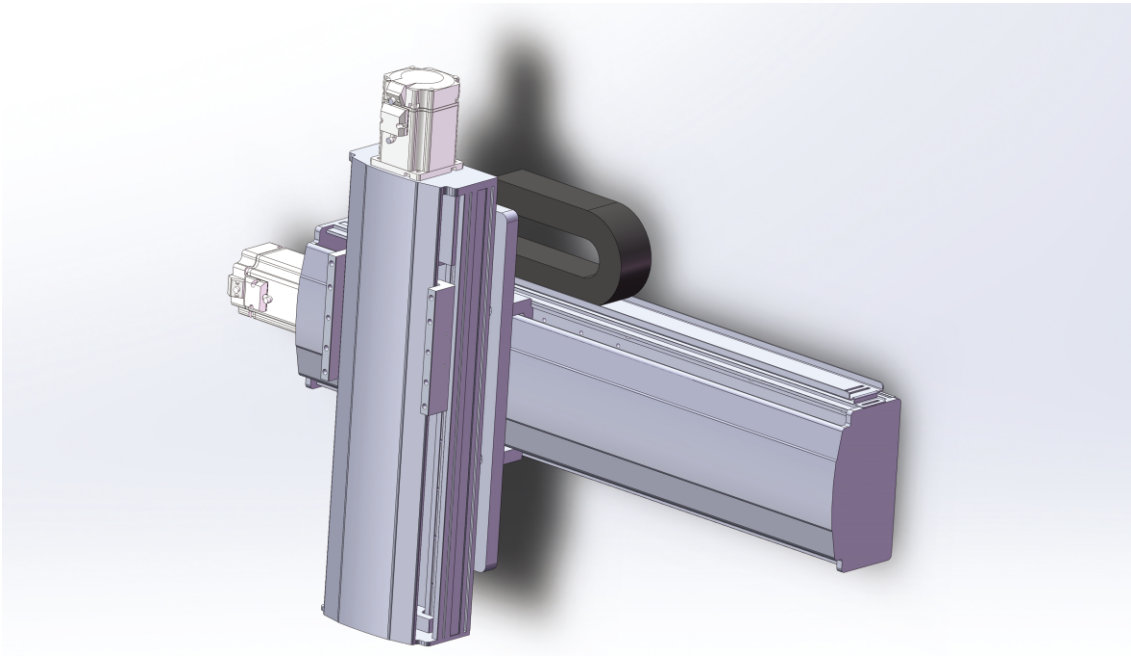
X轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	1323	1373	1423	1473	1523	1573
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
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
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
最快速度 Max Speed(mm/s)	1250																1100	1000	900	800	700			

Z轴行程 Z Stroke(mm)	100	150	200	250	300	350	400	450	500	550
H	380	430	480	530	580	630	680	730	780	830
最快速度 Max Speed(mm/s)	1000									

组合方向 Combination direction

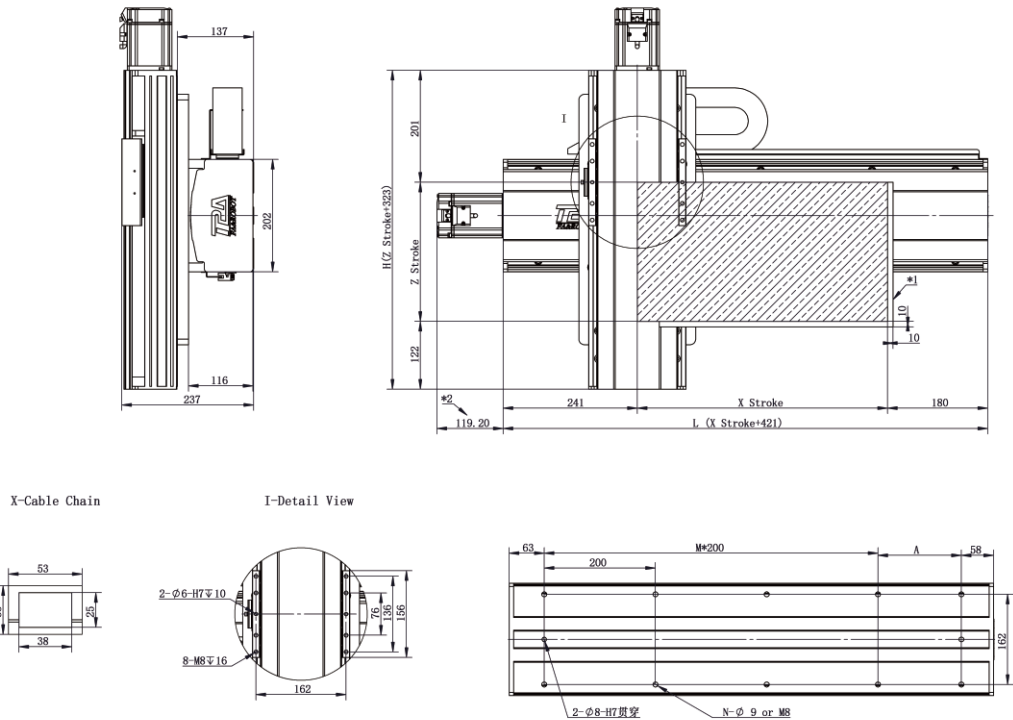


补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



十字型-F1
Cross type -F1

单位 Unit(mm)



*1:原点回复时的移动范围及机械的停止位置。
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*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

多轴组合对应参数表
Multi-axis combination corresponding parameter table

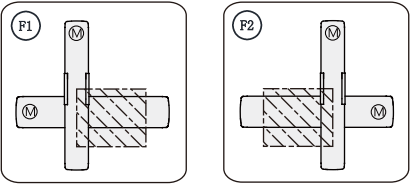
项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/S)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	Z轴
参数 Parameter	202	175	1600	1250	1450	650	750	750	±0.02	±0.02	30

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

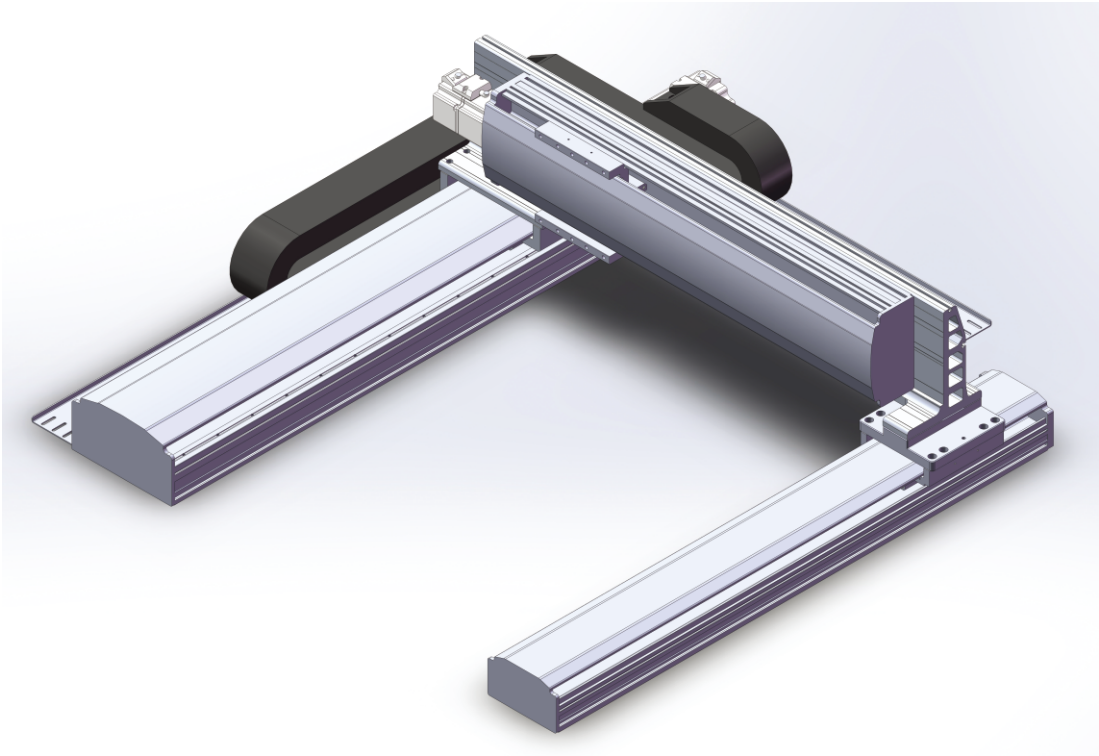
X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	
L	521	571	621	671	721	771	821	871	921	971	1021	1071	1121	1171	1221	1271	1321	1371	1421	1471	1521	1571	1621	1671	1721	1771	1821	1871	
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	
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	
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	
最快速度 Max Speed(mm/s)	1600										1500			1400		1300			1150		1000		850		700		550		400

Z轴行程 Z Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650
H	423	473	523	573	623	673	723	773	823	873	923	973
最快速度 Max Speed(mm/s)	1250											

组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.

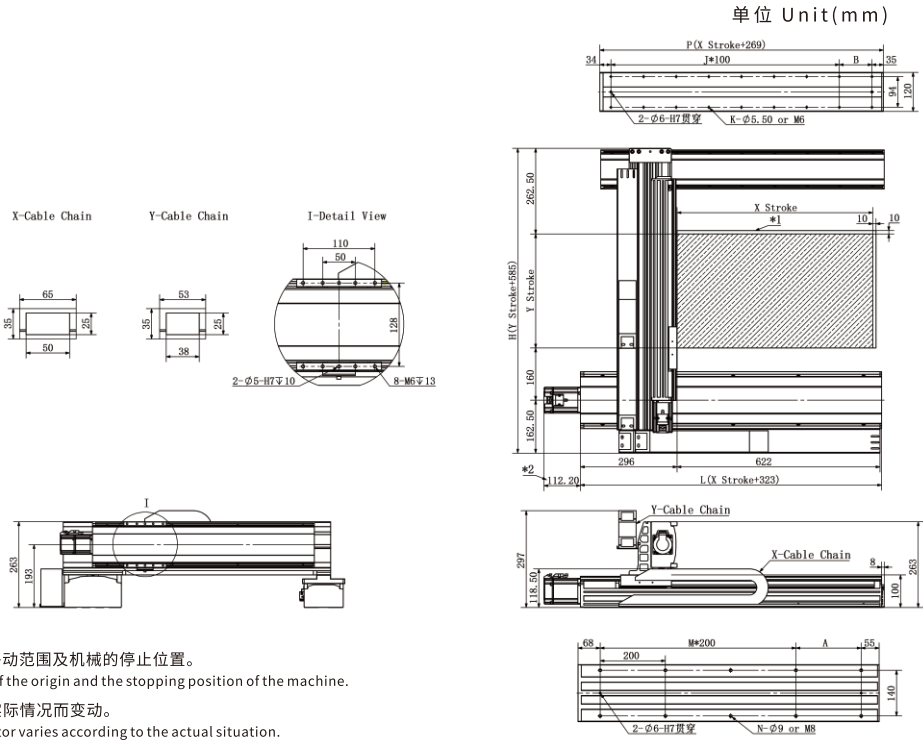


多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/s)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	Y轴
参数 Parameter	175	140	1250	1000	1450	850	750	400	±0.02	±0.02	35

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

龙门型-G2
Gantry type -G2

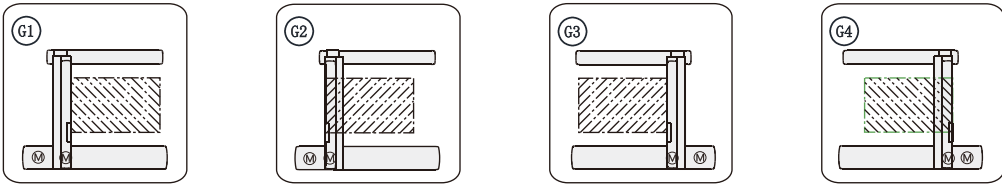


Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
H	685	735	785	835	885	935	985	1035	1085	1135	1185	1235	1285	1335	1385	1435
最快速度 Max Speed(mm/s)	1000															

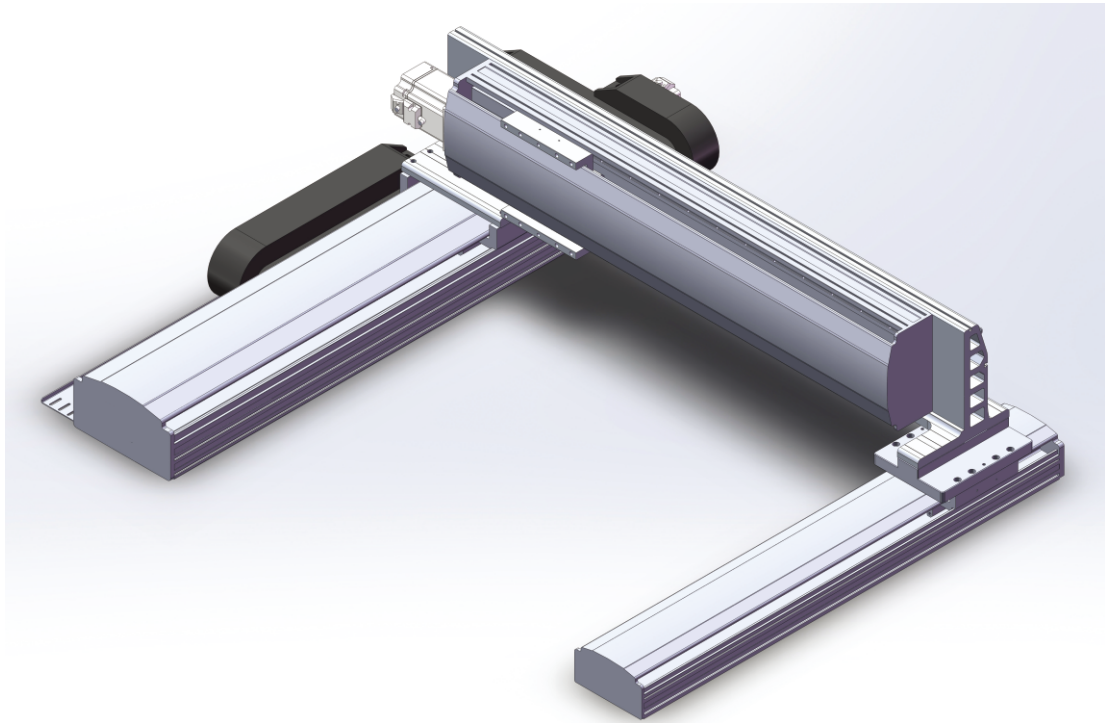
X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	
L	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	1323	1373	1423	1473	1523	1573	1623	1673	1723	1773	
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	
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	
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	
最快速度 Max Speed(mm/s)	1250																1250			1050		900		750		600		400	

X辅助轴行程 X Auxiliary shaft stroke(mm)	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
P	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719
B	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
J	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
K	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

组合方向 Combination direction

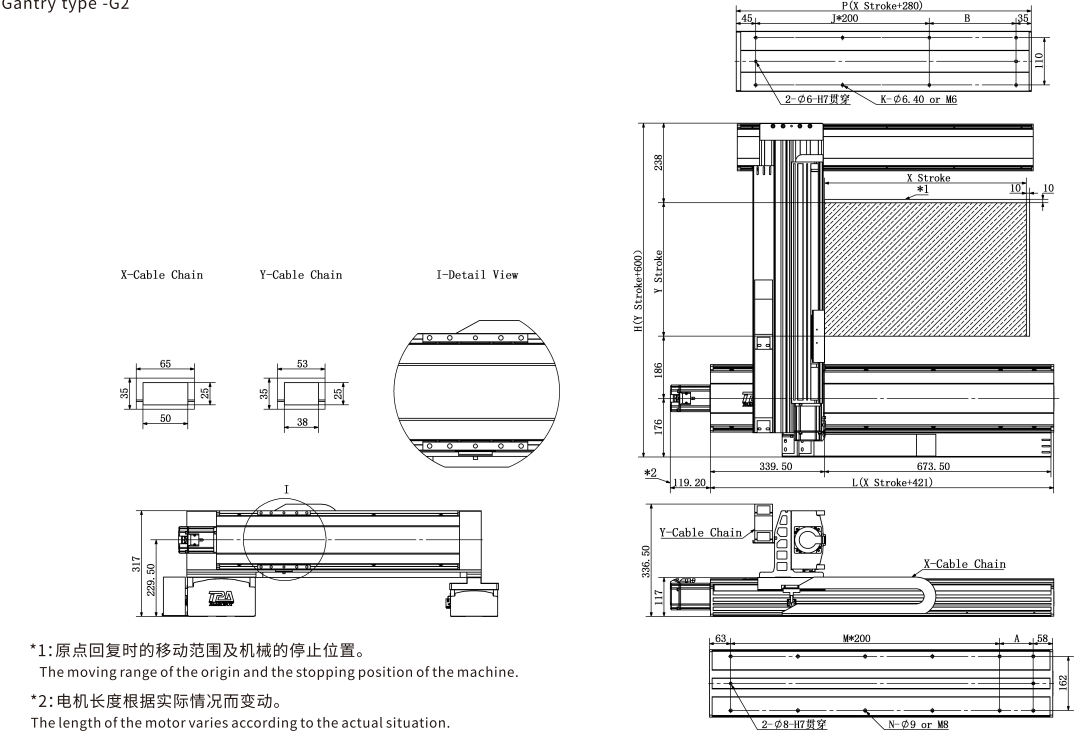


补充: 最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



龙门型-G2
Gantry type -G2

单位 Unit(mm)



多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/s)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	Y轴
参数 Parameter	202	175	1600	1250	1500	1050	750	750	±0.02	±0.02	50

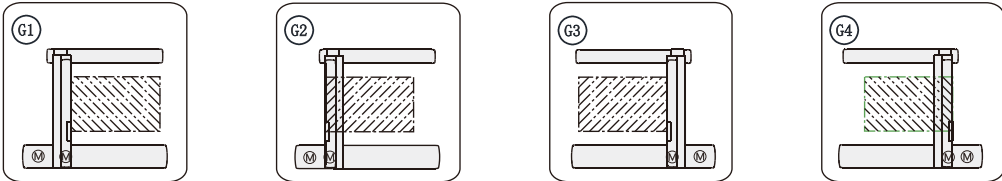
说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
H	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
最快速度 Max Speed(mm/s)	1250																			

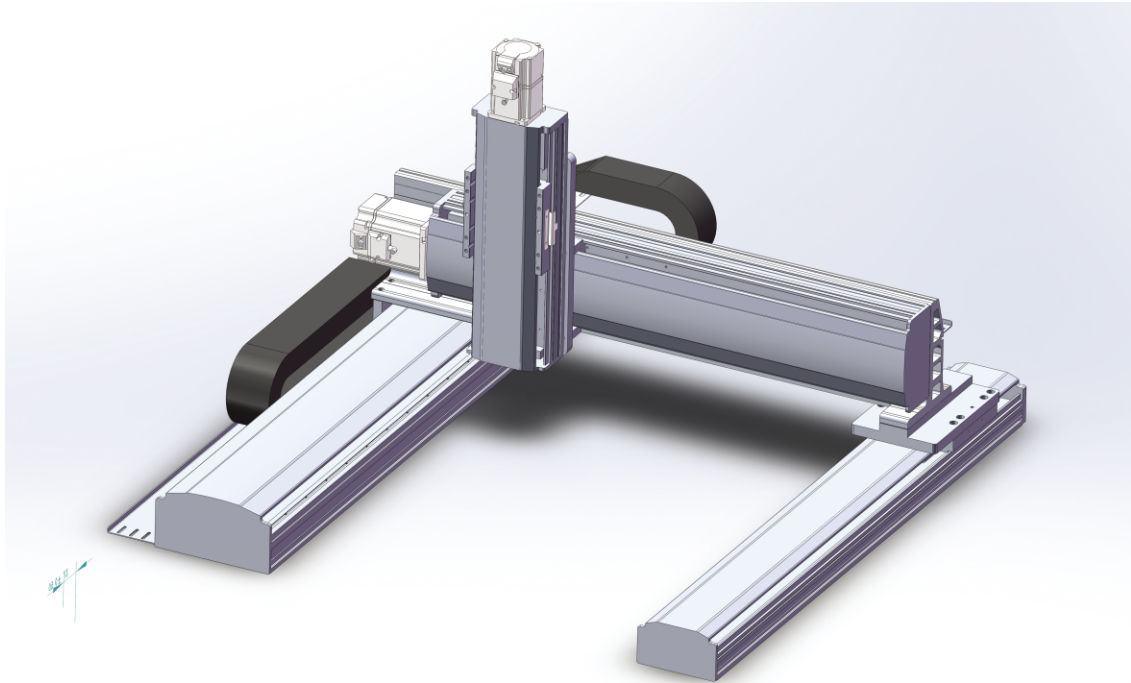
X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	521	571	621	671	721	771	821	871	921	971	1021	1071	1121	1171	1221	1271	1321	1371	1421	1471	1521	1571	1621	1671	1721	1771	1821	1871	1921
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
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
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
最快速度 Max Speed(mm/s)	1600																1400		1200		1000		800		600		400		

X辅助轴行程 X Auxiliary shaft stroke(mm)	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
P	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	1730	1780
B	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
J	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
K	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

组合方向 Combination direction

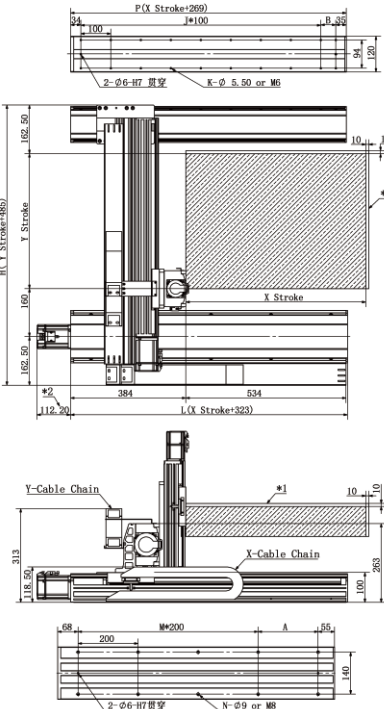
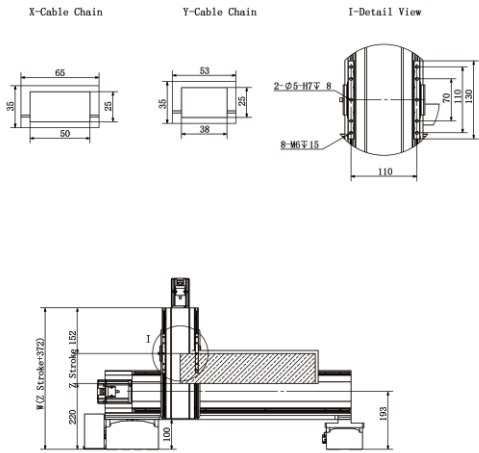


补充: 最快速度表示该行程内可使用的安全速度, 若超过此速度, 滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



龙门型-G1
Gantry type -G1

单位 Unit(mm)



*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)			最大速度 Maximum speed (mm/s)			最大行程 Maximum stroke (mm)			建议马达功率 Motor power (W)			重复定位精度 Repeated positioning accuracy (mm)			最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	Z轴
参数 Parameter	175	140	120	1250	1000	1000	1450	850	350	750	400	200	±0.02			13

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

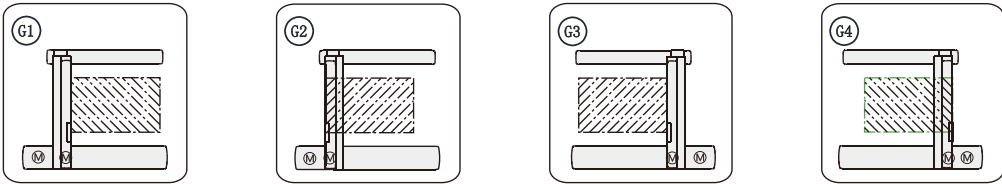
Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
H	585	635	685	735	785	835	885	935	985	1035	1085	1135	1185	1235	1285	1335
最快速度 Max Speed(mm/s)	1000															

Z轴行程 Z Stroke(mm)	100	150	200	250	300	350
W	472	522	572	622	672	722
最快速度 Max Speed(mm/s)	1000					

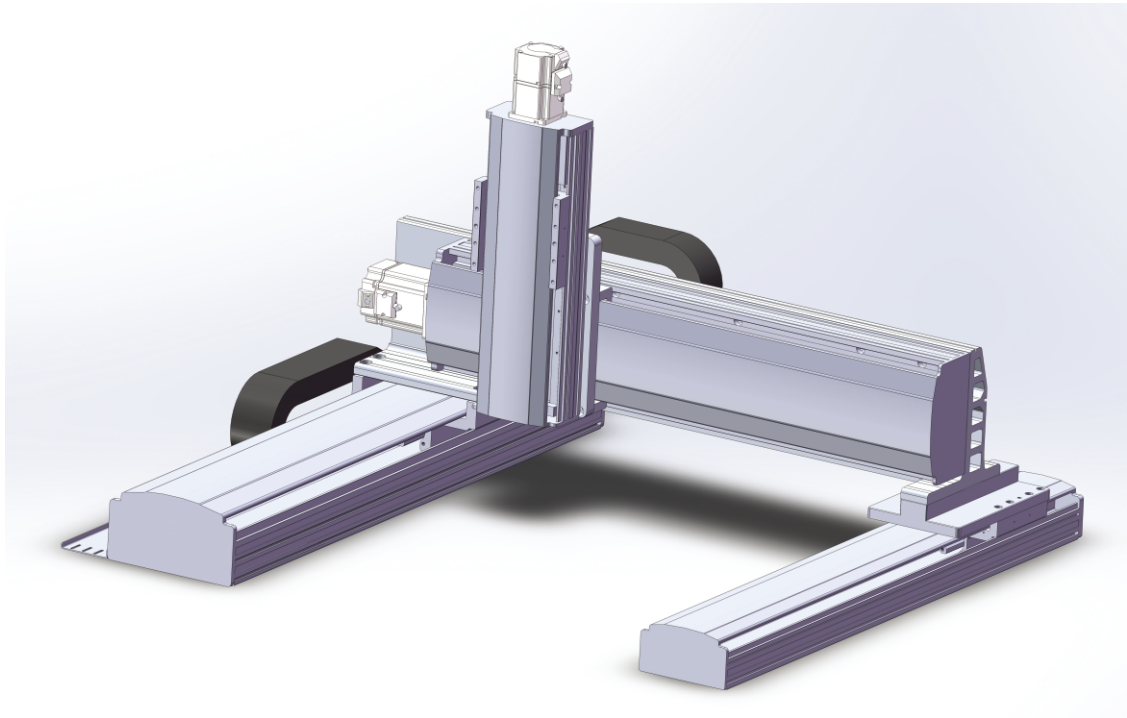
X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
L	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	1323	1373	1423	1473	1523	1573	1623	1673	1723	1773
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
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
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
最快速度 Max Speed(mm/s)	1250														1150		1050		950		850		750		600		500	

X辅助轴行程 X Auxiliary shaft stroke(mm)	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
P	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719
B	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
J	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
K	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

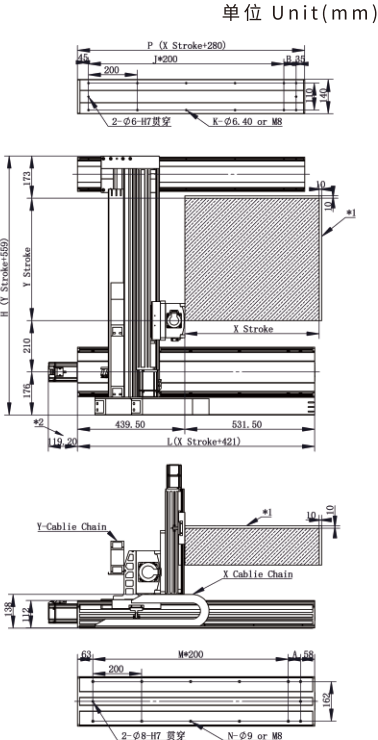
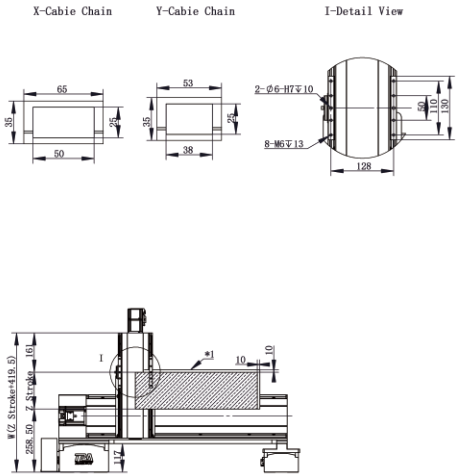
组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



龙门型-G1
Gantry type -G1



*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.

*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)			最大速度 Maximum speed (mm/S)			最大行程 Maximum stroke (mm)			建议马达功率 Motor power (W)			重复定位精度 Repeated positioning accuracy (mm)			最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	Z轴
参数 Parameter	202	175	140	1600	1250	1000	1600	1050	550	750	750	400	±0.02			22

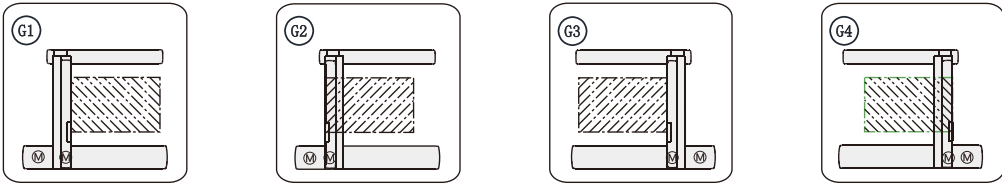
说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
H	659	709	759	809	859	909	959	1009	1059	1109	1159	1209	1259	1309	1359	1409	1459	1509	1559	1609
最快速度 Max speed(mm/s)	1000																			
Z轴行程 Z Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
W	519.5	569.5	619.5	669.5	719.5	769.5	819.5	869.5	919.5	969.5	1019.5	1069.5	1119.5	1169.5	1219.5	1269.5	1319.5	1369.5	1419.5	1469.5
最快速度 Max speed(mm/s)	1000																			

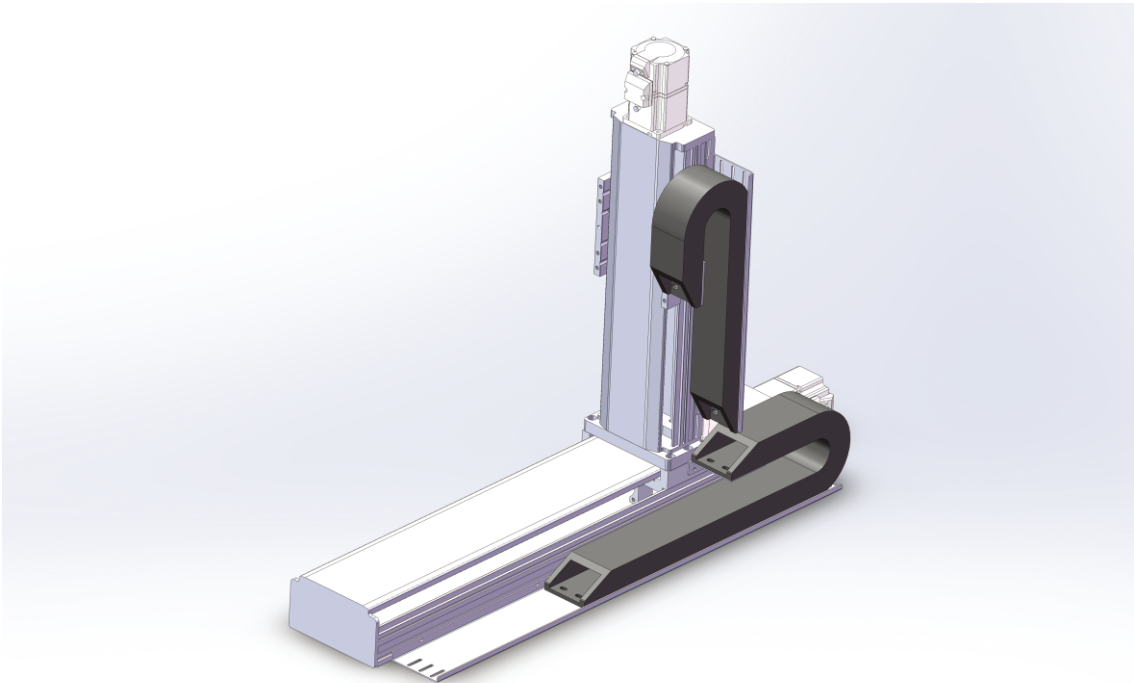
X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
L	521	571	621	671	721	771	821	871	921	971	1021	1071	1121	1171	1221	1271	1321	1371	1421	1471	1521	1571	1621	1671	1721	1771	1821	1871	1921	1971	2021
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
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
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
最快速度 Max Speed(mm/s)	1600															1500		1400	1250	1100	950	800	650	500	350						

X辅助轴行程 X Auxiliary shaft stroke(mm)	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
P	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	1730	1780	1830	1880
B	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
J	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
K	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

组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



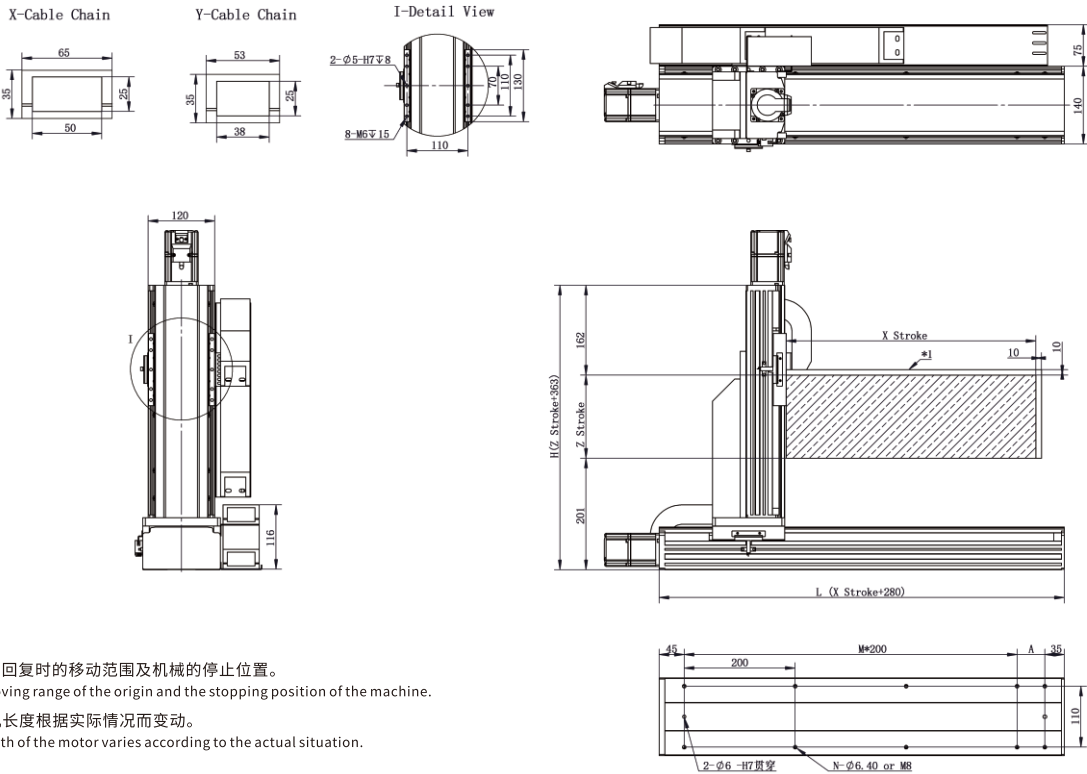
多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/S)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	Z轴
参数 Parameter	140	120	1000	1000	1050	550	400	200	±0.02	±0.02	10

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

极坐标型-P1
Polar coordinate type -P1

单位 Unit(mm)

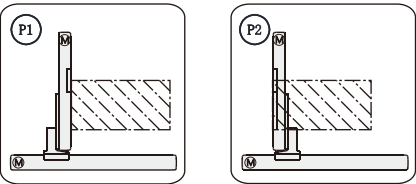


*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
L	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	
最快速度 Max Speed(mm/s)	1000															900	800	700	600	500	400

Z 轴行程 Z Stroke(mm)	100	150	200	250	300	350	400	450	500	550
H	463	513	563	613	663	713	763	813	863	913
最快速度 Max Speed(mm/s)	1000									

组合方向 Combination direction



补充: 最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



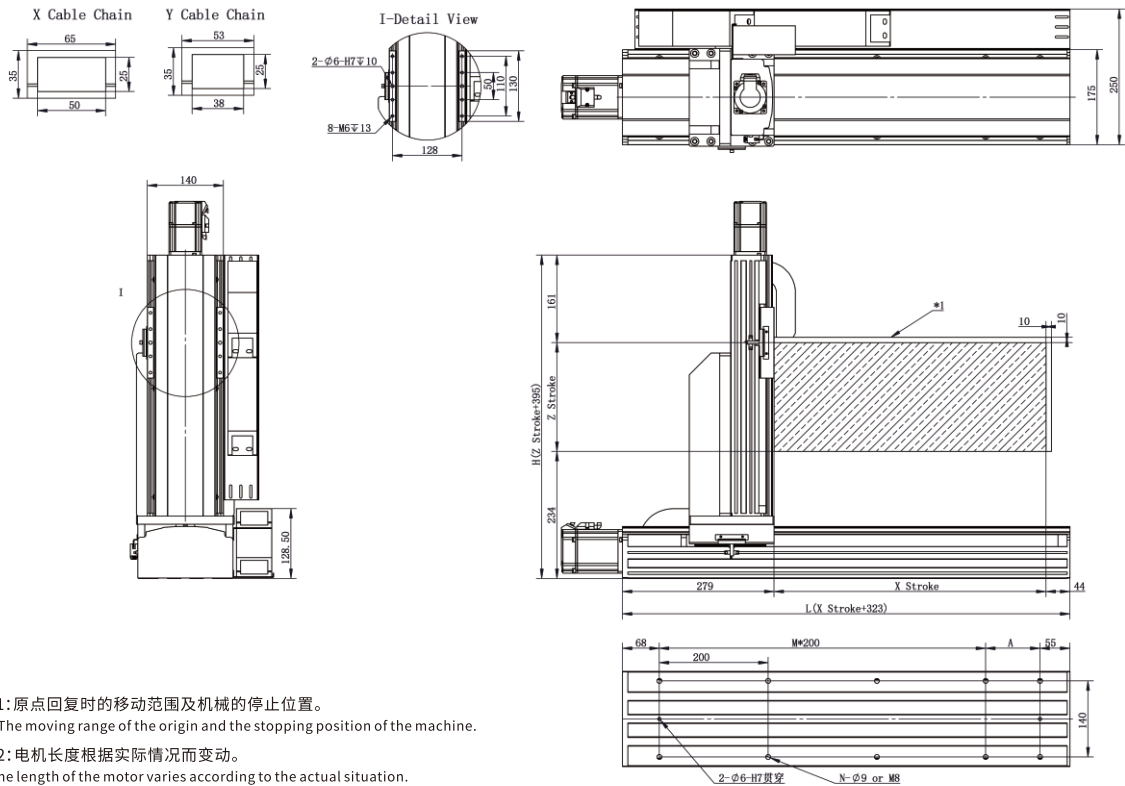
多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/S)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	Z轴
参数 Parameter	175	140	1250	1000	1250	650	750	400	±0.02	±0.02	22

说明:Y 轴行程越长, 负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

极坐标型-P1
Polar coordinate type -P1

单位 Unit(mm)

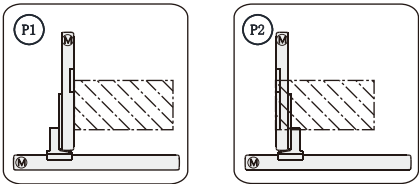


*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

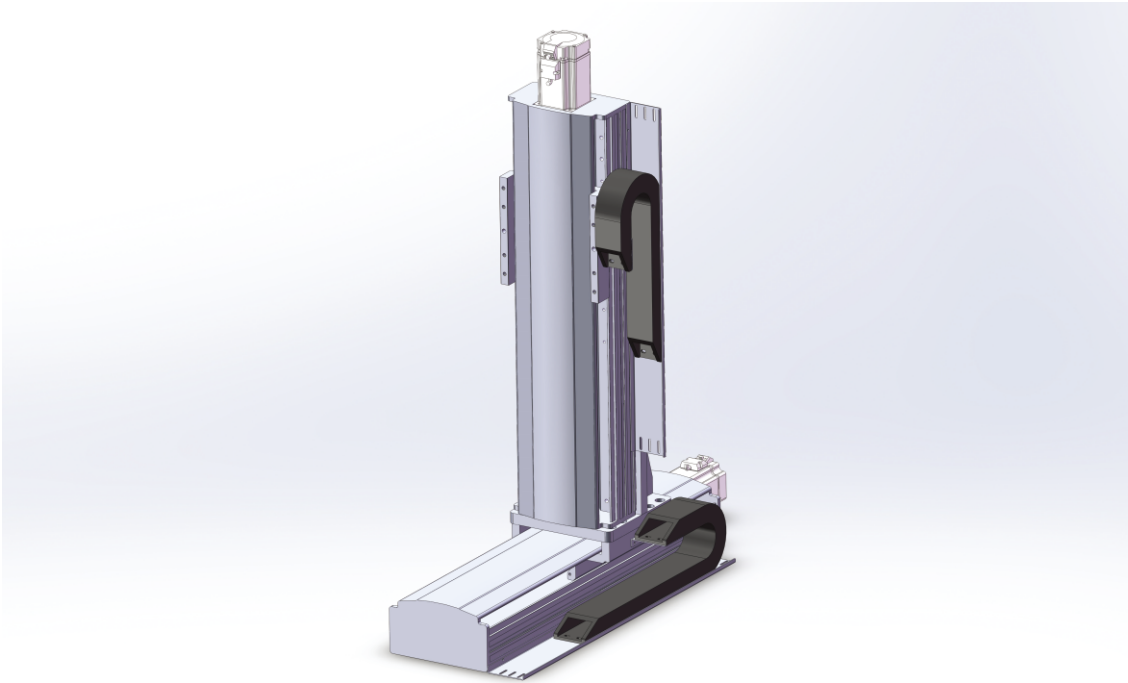
X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	1323	1373	1423	1473	1523	1573
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
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
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
最快速度 Max Speed(mm/s)	1250															1150	1000	900	800	700				

Z 轴行程 Z Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650
H	495	545	595	645	695	745	795	845	895	945	995	1045
最快速度 Max Speed(mm/s)	1000											

组合方向 Combination direction

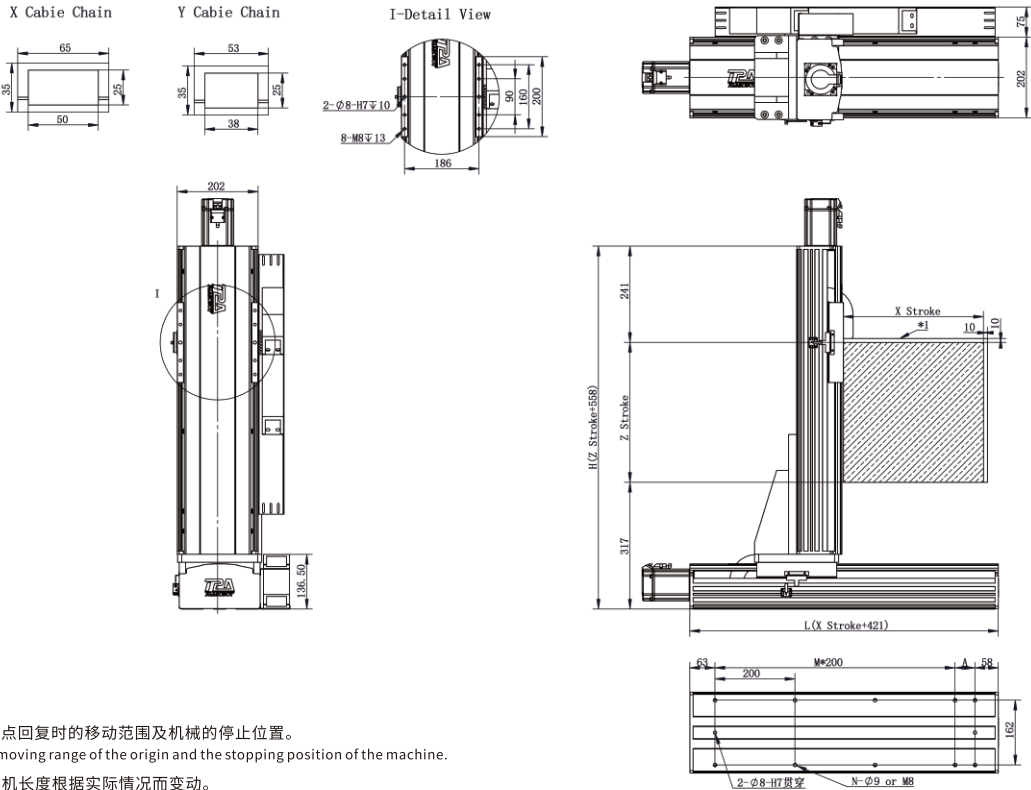


补充: 最快速度表示该行程内可使用的安全速度, 若超过此速度, 滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



极坐标型-P1
Polar coordinate type -P1

单位 Unit(mm)



*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

多轴组合对应参数表
Multi-axis combination corresponding parameter table

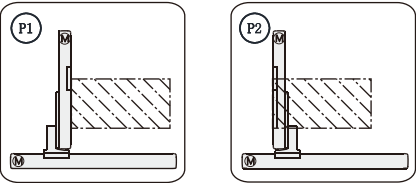
项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/s)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	Z轴
参数 Parameter	202	202	1600	1600	1500	950	750	750	±0.02	±0.02	33

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

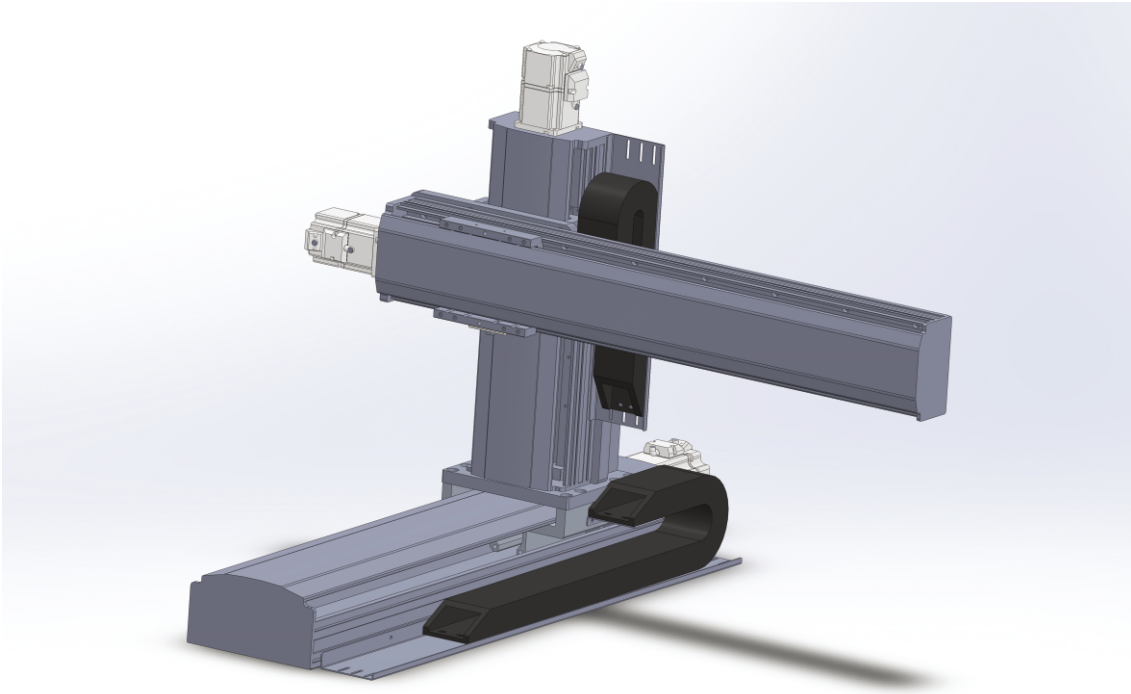
X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	521	571	621	671	721	771	821	871	921	971	1021	1071	1121	1171	1221	1271	1321	1371	1421	1471	1521	1571	1621	1671	1721	1771	1821	1871	1921
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
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
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
最快速度 Max Speed(mm/s)	1600																	1500		1400		1200		1000		800		600	

Z轴行程 Z Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
H	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508
最快速度 Max Speed(mm/s)	800																	

组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



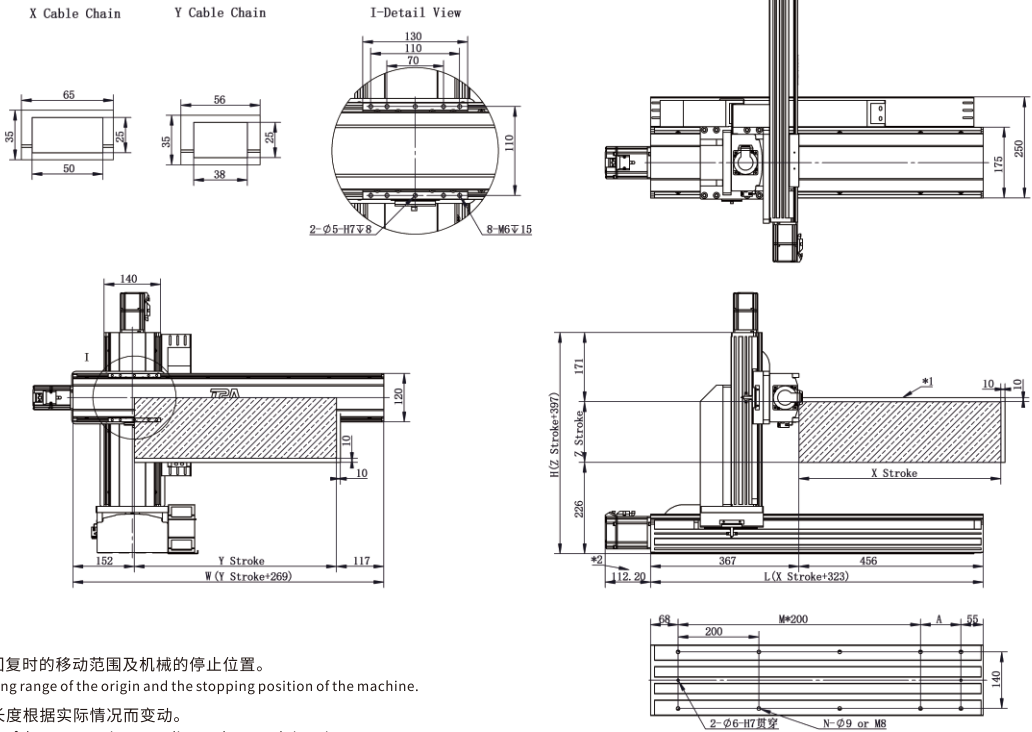
多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)			最大速度 Maximum speed (mm/S)			最大行程 Maximum stroke (mm)			建议马达功率 Motor power (W)			重复定位精度 Repeated positioning accuracy (mm)			最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	Z轴
参数 Parameter	175	120	140	1250	1000	1000	1250	350	650	750	200	400	±0.02			13

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

极坐标型-P1
Polar coordinate type -P1

单位 Unit(mm)



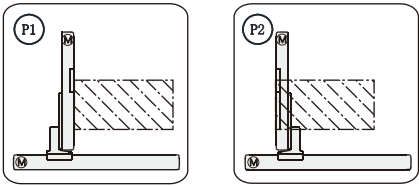
*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250		
L	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	1323	1373	1423	1473	1523	1573		
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		
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		
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		
最快速度 Max Speed(mm/s)	1250															1150			1050		950		900		750	

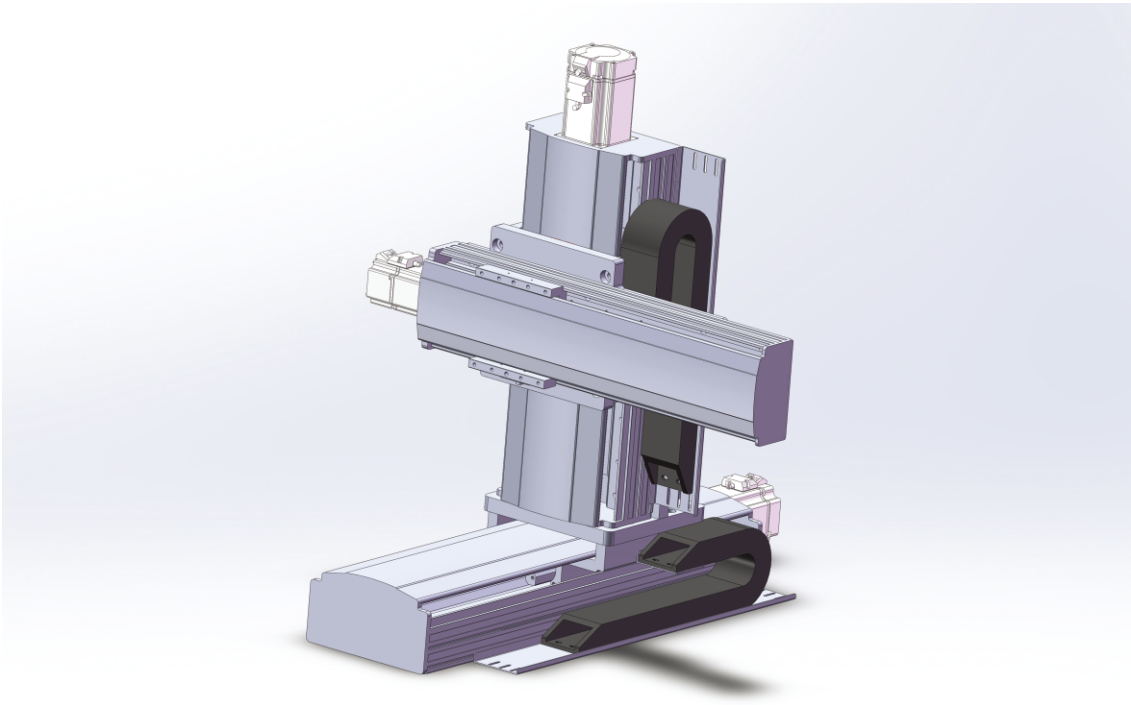
Z 轴行程 Z Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650
H	497	547	597	647	697	747	797	847	897	947	997	1047
最快速度 Max Speed(mm/s)	1000											

Y 轴行程 Y Stroke(mm)	100	150	200	250	300	350
W	369	419	469	519	569	619
最快速度 Max Speed(mm/s)	1000					

组合方向 Combination direction



补充: 最快速度表示该行程内可使用的安全速度, 若超过此速度, 滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



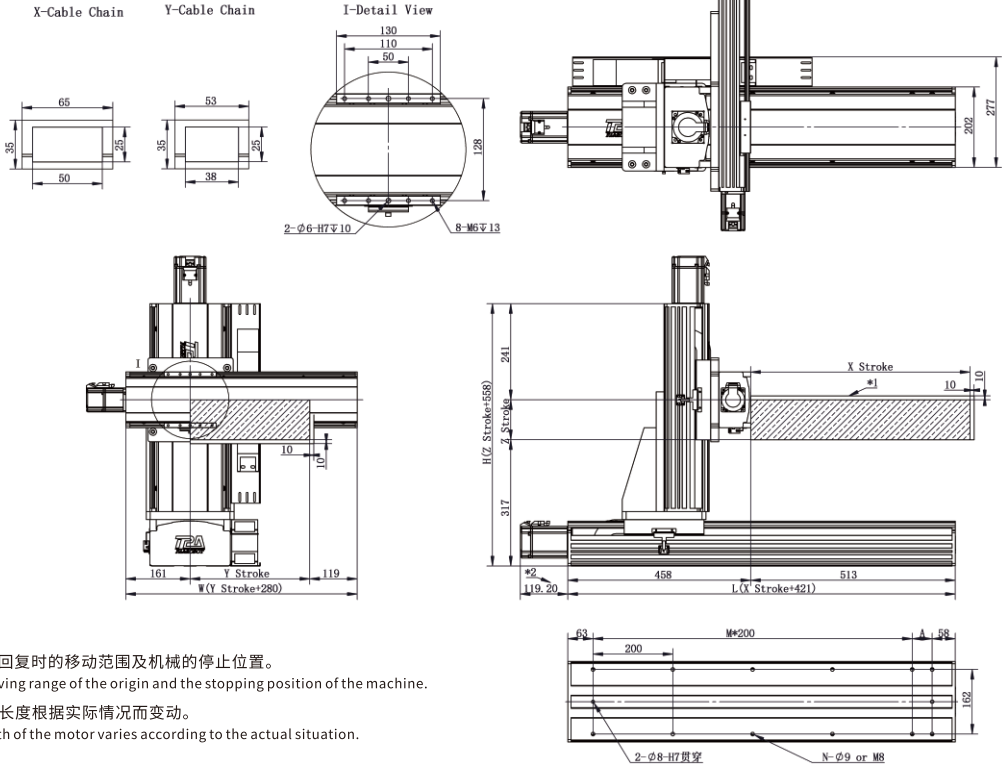
多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)			最大速度 Maximum speed (mm/s)			最大行程 Maximum stroke (mm)			建议马达功率 Motor power (W)			重复定位精度 Repeated positioning accuracy (mm)			最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	Z轴
参数 Parameter	202	140	202	1600	1000	1600	1500	650	950	750	400	750	±0.02			15

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

极坐标型-P1
Polar coordinate type -P1

单位 Unit(mm)

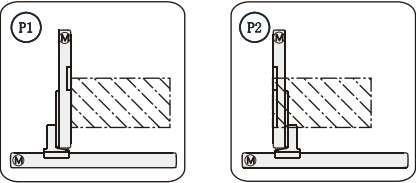


*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

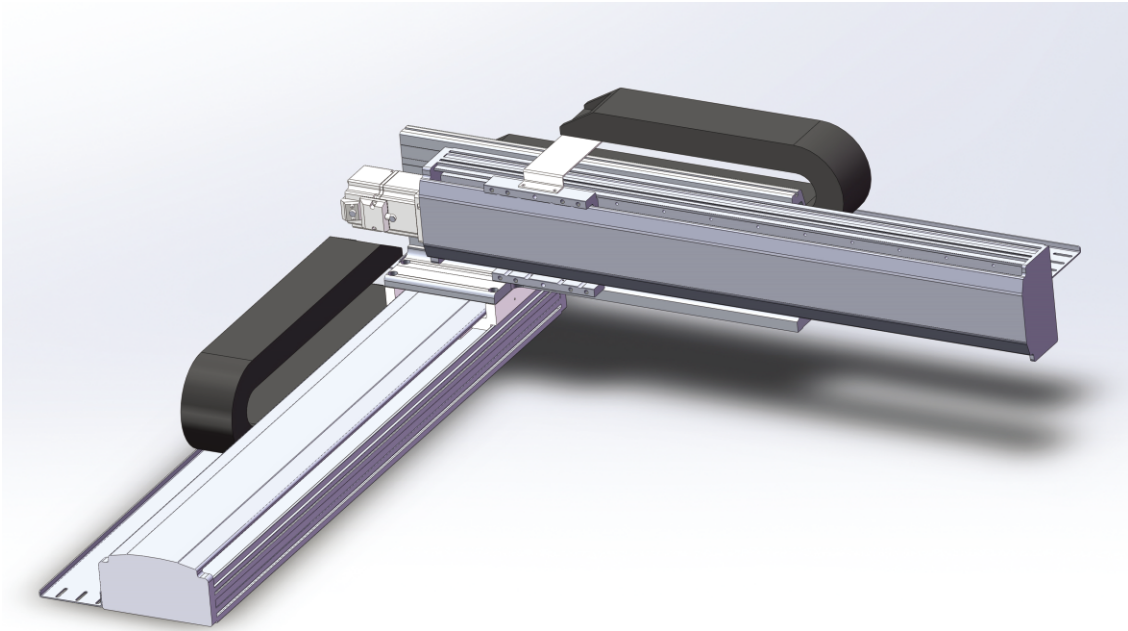
X 轴行程 X Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250		
L	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	1323	1373	1423	1473	1523	1573		
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50		
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		
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		
最快速度 Max Speed(mm/s)	1250															1150			1050		950		900		750	

Z轴行程 Z Stroke(mm)	100	150	200	250	300	350	400	450	500	550	Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750
H	497	547	597	647	697	747	797	847	897	947	W	369	419	469	519	569	619	669	719	769	819	869	919	969	1019
最快速度 Max Speed(mm/s)	1000										最快速度 Max Speed(mm/s)	1000													

组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.

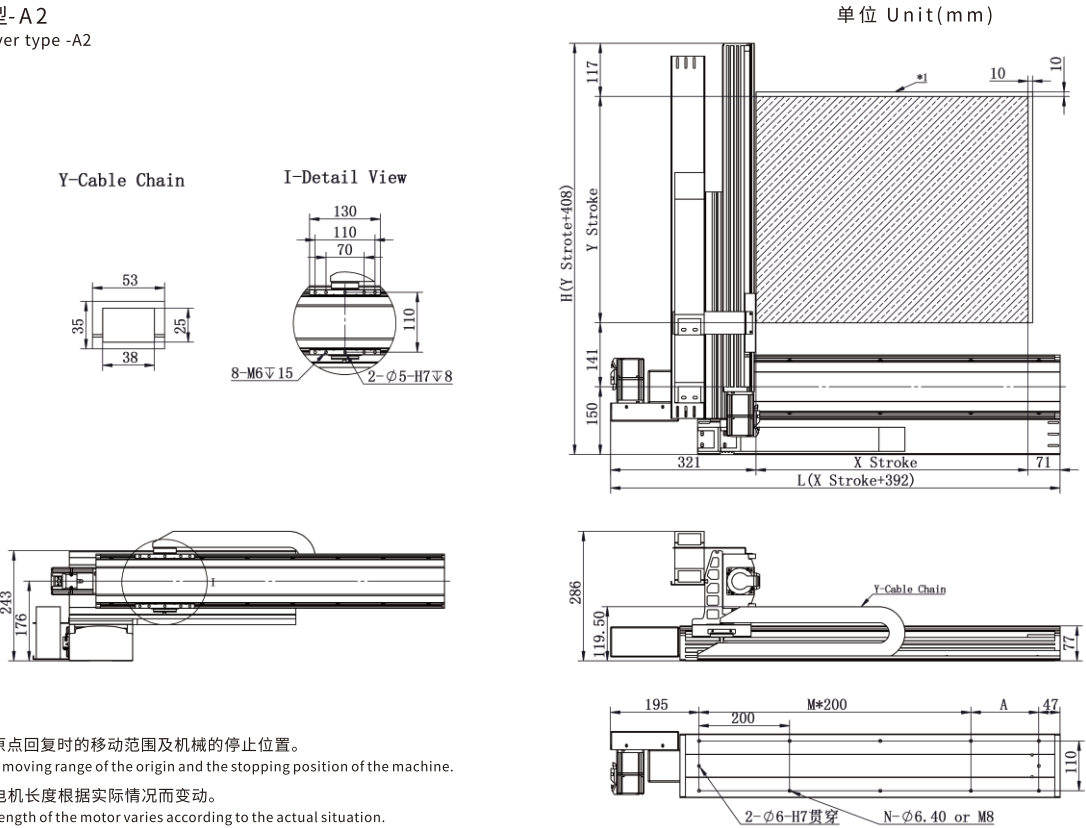


多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/S)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	Y轴
参数 Parameter	140	120	2000	1000	3050	550	400	200	±0.04	±0.02	14

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

悬臂型-A2
Cantilever type -A2



*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.

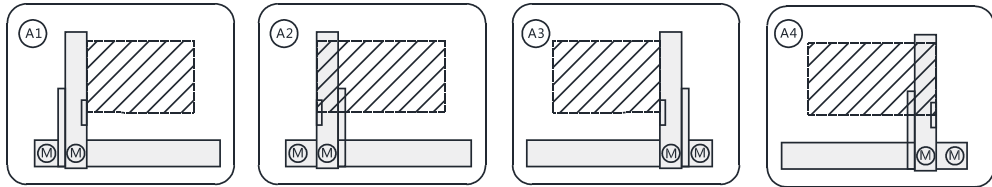
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

X 轴行程 X Stroke(mm)	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450
L	942	1042	1142	1242	1342	1442	1542	1642	1742	1842	1942	2042	2142	2242	2342	2442	2542	2642	2742	2842
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
最快速度 Max Speed(mm/s)	2000																			

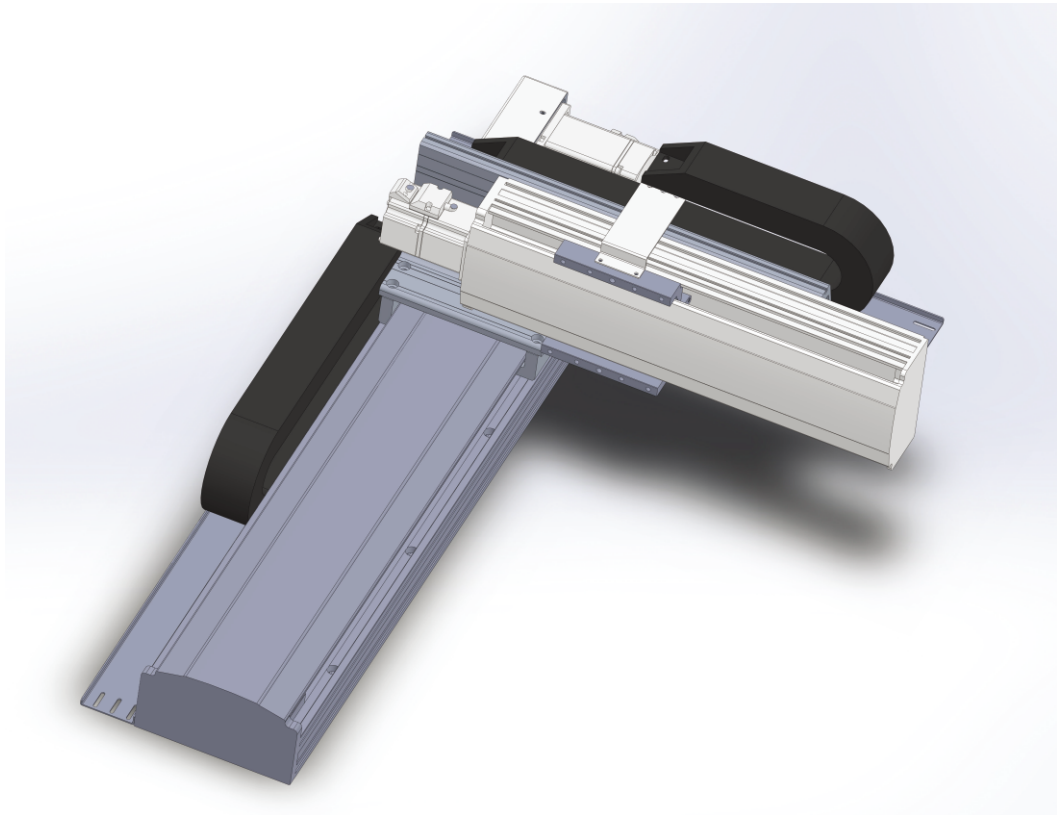
X 轴行程 X Stroke(mm)	2550	2650	2750	2850	2950	3050
L	2942	3042	3142	3242	3342	3442
A	100	200	100	200	100	200
N	30	30	32	32	34	34
M	13	13	14	14	15	15
最快速度 Max Speed(mm/s)	2000					

Y 轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550
H	508	558	608	658	708	758	808	858	908	958
最快速度 Max Speed(mm/s)	1000									

组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.

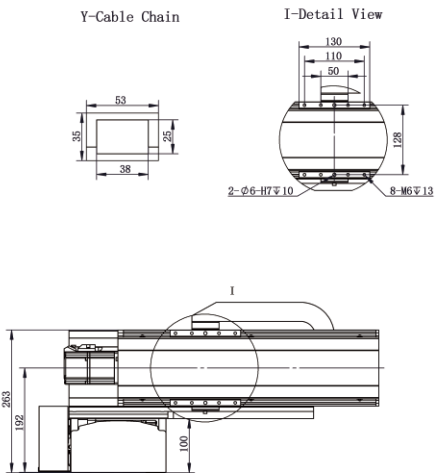


多轴组合对应参数表
Multi-axis combination corresponding parameter table

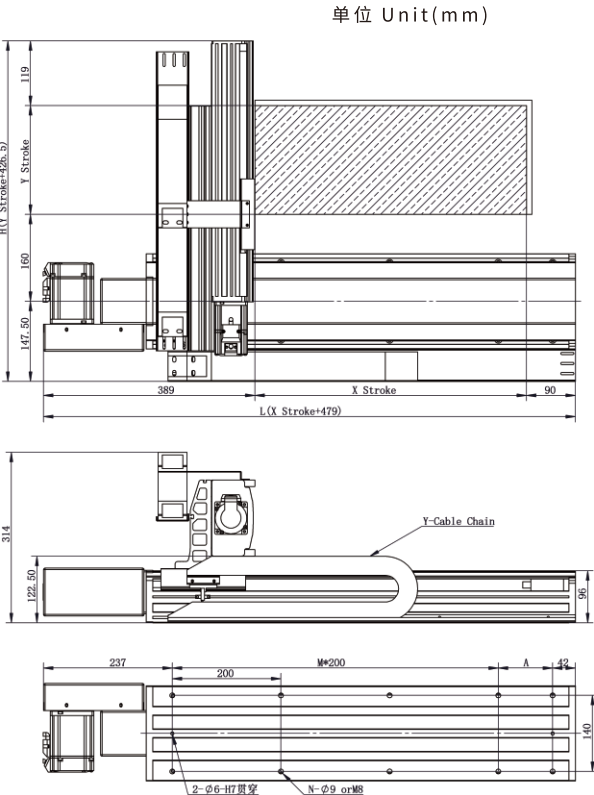
项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/s)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	Y轴
参数 Parameter	175	140	2000	1000	3050	650	750	400	±0.04	±0.02	14

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

悬臂型-A2
Cantilever type -A2



*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

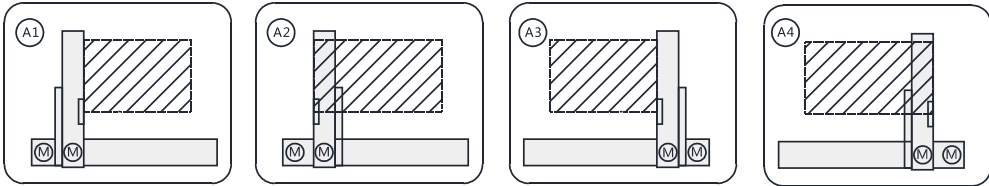


X轴行程 X Stroke(mm)	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450
L	1029	1129	1229	1329	1429	1529	1629	1729	1829	1929	2029	2129	2229	2329	2429	2529	2629	2729	2829	2929
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
M	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
最快速度 Max Speed(mm/s)	2000																			

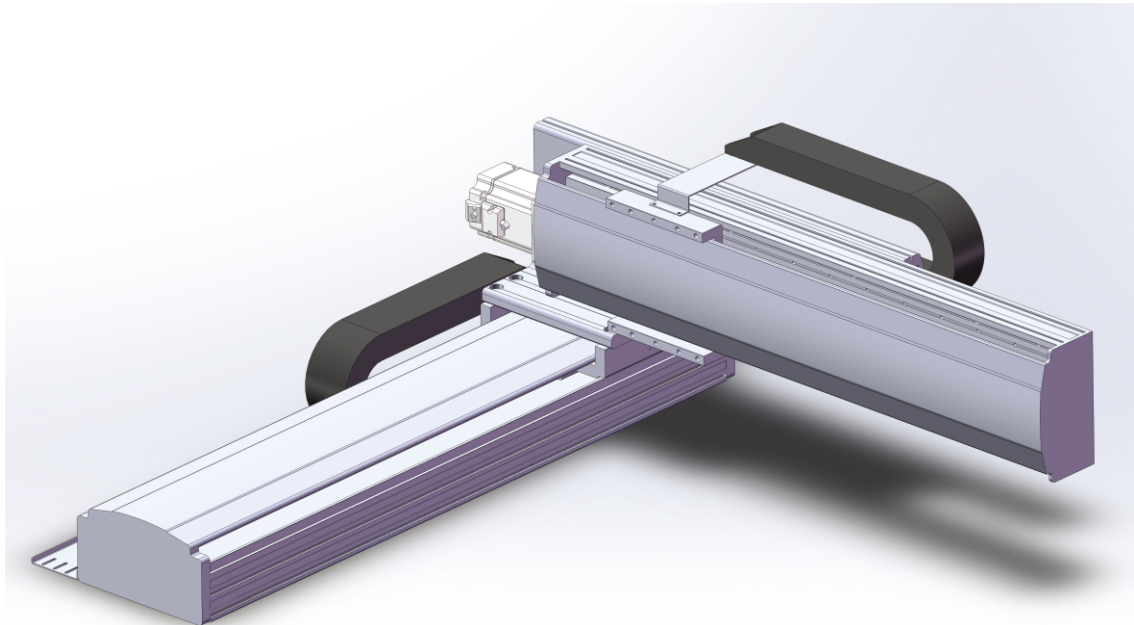
X轴行程 X Stroke(mm)	2550	2650	2750	2850	2950	3050
L	3029	3129	3229	3329	3429	3529
A	150	50	150	50	150	50
N	30	32	32	34	34	36
M	13	14	14	15	15	16
最快速度 Max Speed(mm/s)	2000					

Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650
H	526.5	576.5	626.5	676.5	726.5	776.5	826.5	876.5	926.5	976.5	1026.5	1076.5
最快速度 Max Speed(mm/s)	1000											

组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.

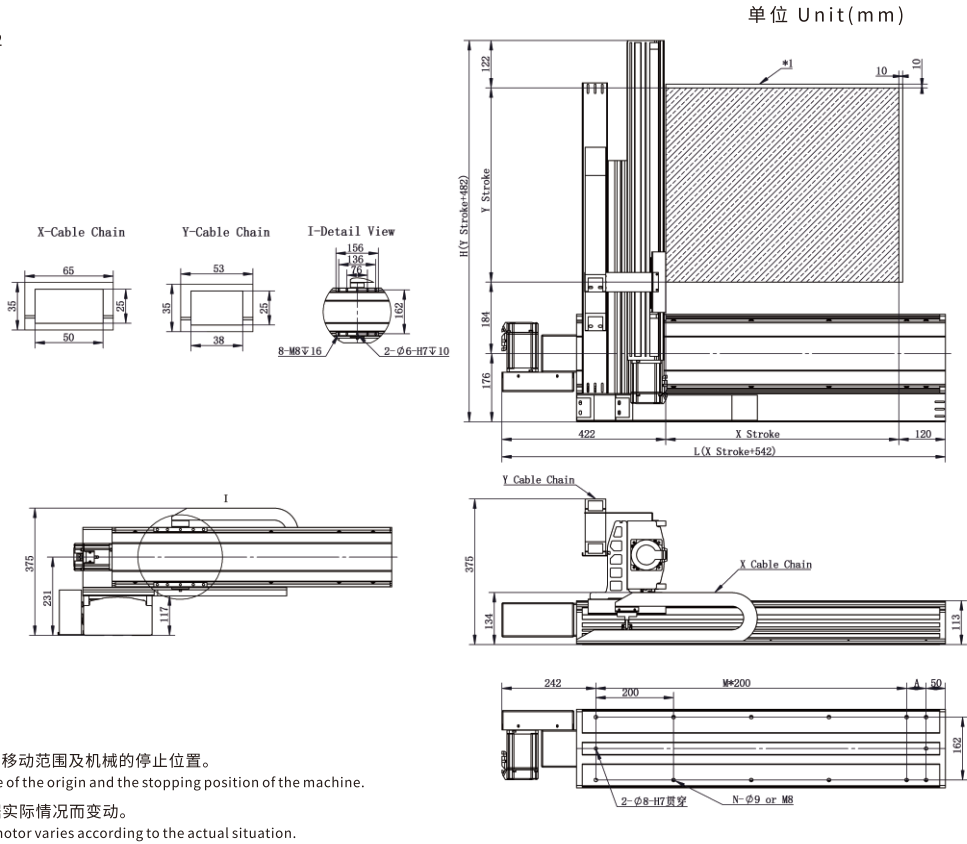


多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/s)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	Y轴
参数 Parameter	202	175	2000	1250	3050	750	750	750	±0.04	±0.02	50

说明:Y 轴行程越长, 负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

悬臂型-A2
Cantilever type -A2

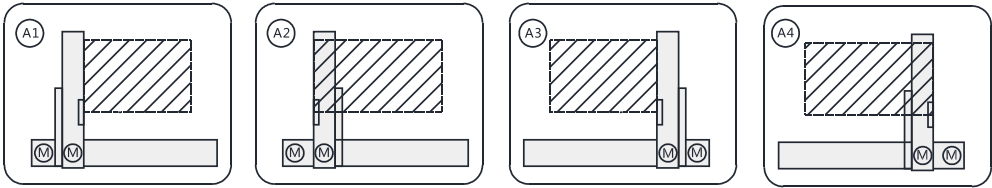


X 轴行程 X Stroke(mm)	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450
L	1092	1192	1292	1392	1492	1592	1692	1792	1892	1992	2092	2192	2292	2392	2492	2592	2692	2792	2892	2992
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
M	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
最快速度 Max Speed(mm/s)	2000																			

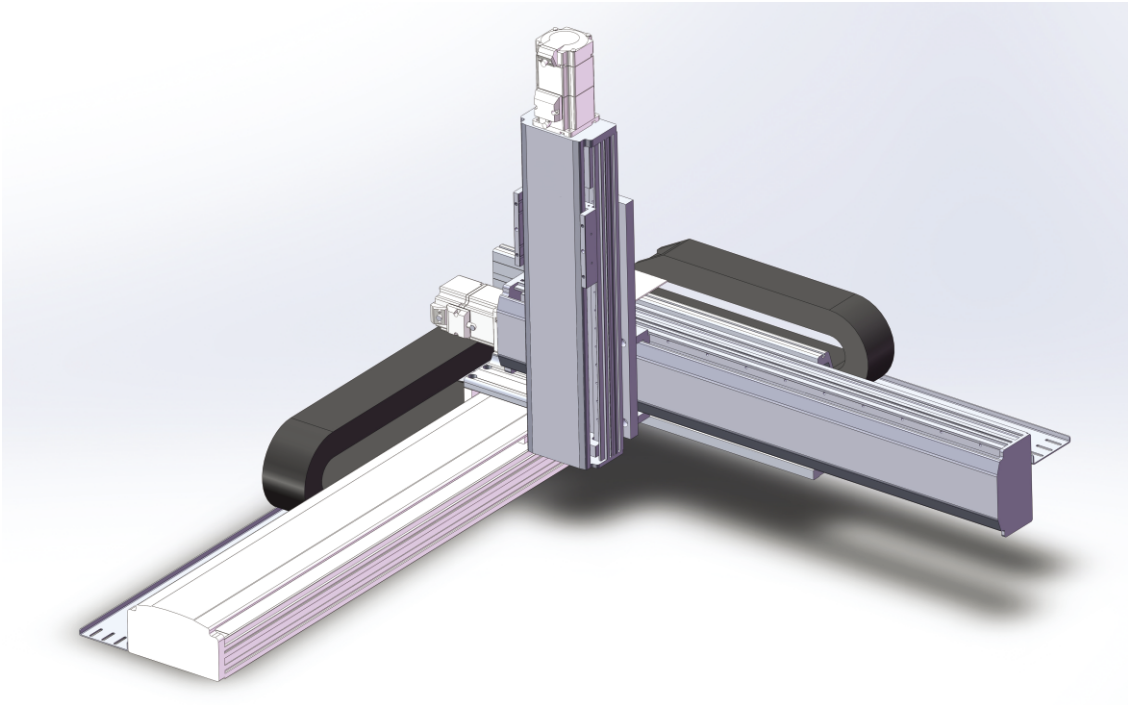
X 轴行程 X Stroke(mm)	2550	2650	2750	2850	2950	3050
L	3092	3192	3292	3392	3492	3592
A	200	100	200	100	200	100
N	30	32	32	34	34	36
M	13	14	14	15	15	16
最快速度 Max Speed(mm/s)	2000					

Y 轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750
H	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232
最快速度 Max Speed(mm/s)	1250													

组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



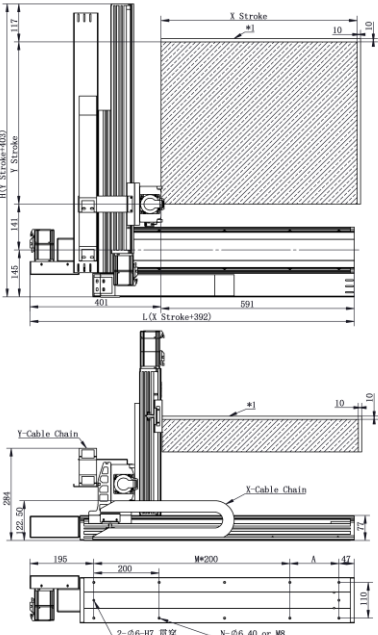
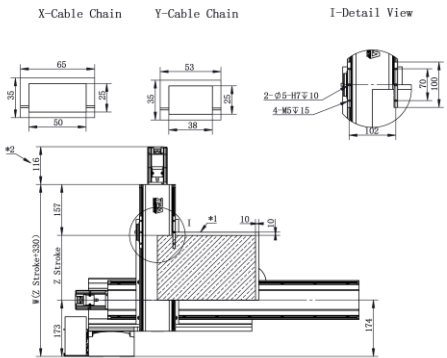
多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)			最大速度 Maximum speed (mm/s)			最大行程 Maximum stroke (mm)			建议马达功率 Motor power (W)			重复定位精度 Repeated positioning accuracy (mm)			最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	Z轴
参数 Parameter	140	120	110	2000	1000	1000	3050	550	350	400	200	200	±0.04	±0.02		9

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

三轴悬臂型-A1
3-Axis cantilever type -A1

单位 Unit(mm)



*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

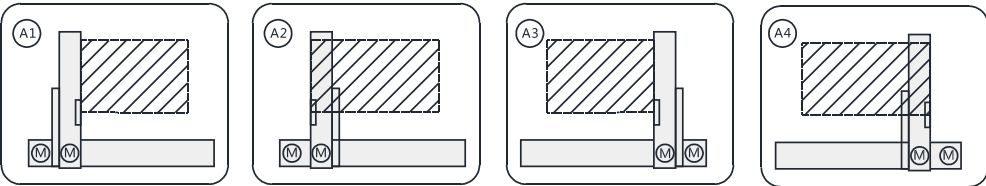
Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550
H	503	553	603	653	703	753	803	853	903	953
最快速度 Max Speed(mm/s)	1000									

Z轴行程 Z Stroke(mm)	100	150	200	250	300	350	400	450	500	550
W	430	480	530	580	630	680	730	780	830	880
最快速度 Max Speed(mm/s)	1000									

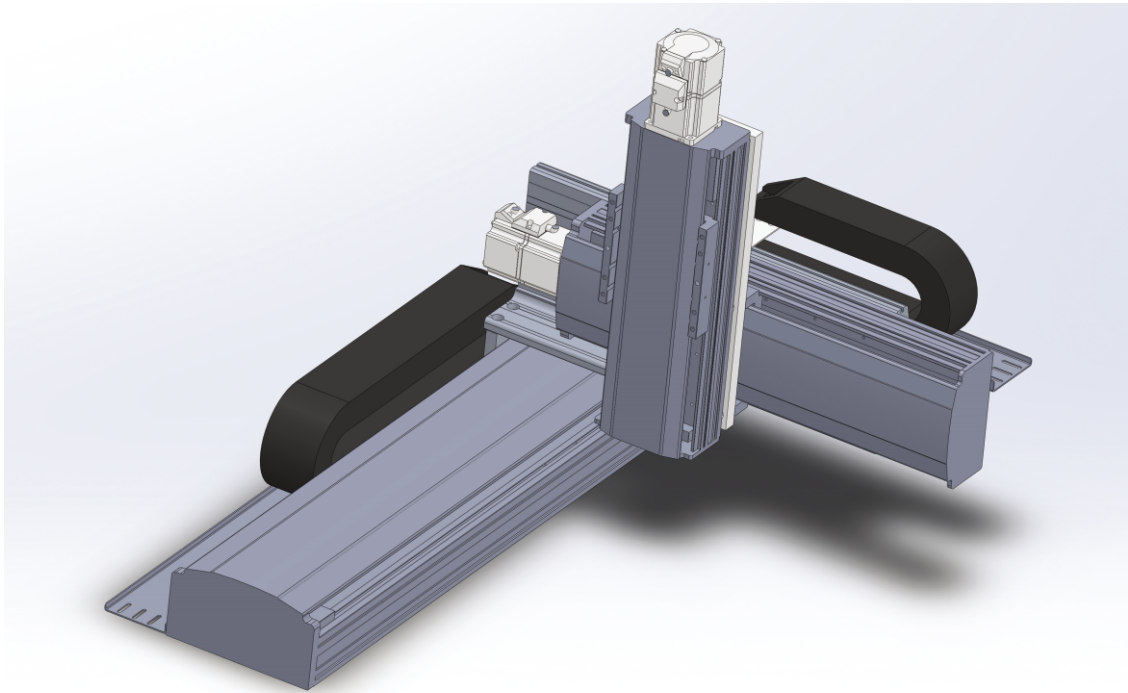
X轴行程 X Stroke(mm)	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450
L	942	1042	1142	1242	1342	1442	1542	1642	1742	1842	1942	2042	2142	2242	2342	2442	2542	2642	2742	2842
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
最快速度 Max Speed(mm/s)	2000																			

X轴行程 X Stroke(mm)	2550	2650	2750	2850	2950	3050
L	2942	3042	3142	3242	3342	3442
A	100	200	100	200	100	200
N	30	30	32	32	34	34
M	13	13	14	14	15	15
最快速度 Max Speed(mm/s)	2000					

组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.

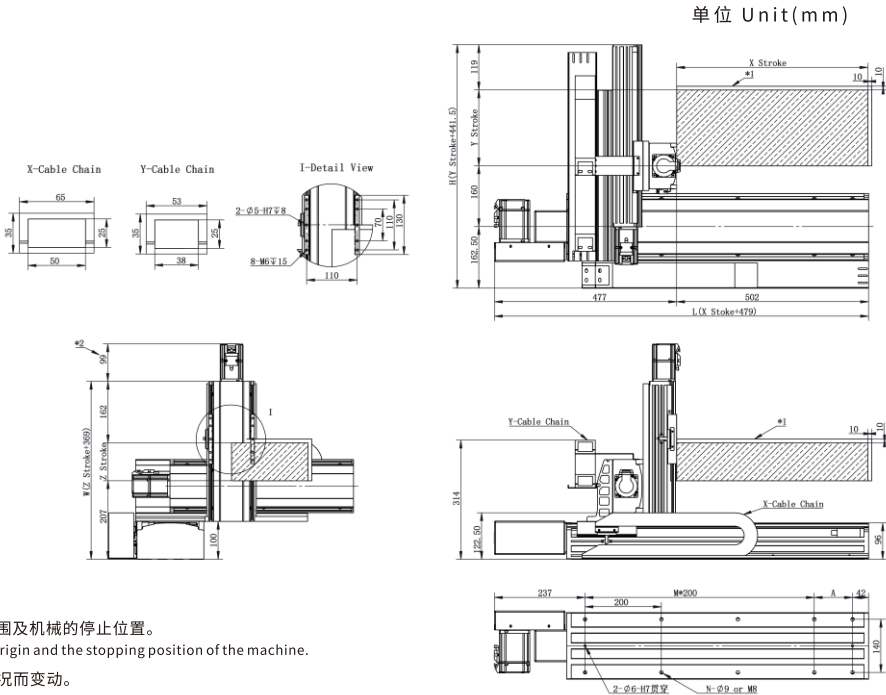


多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)			最大速度 Maximum speed (mm/s)			最大行程 Maximum stroke (mm)			建议马达功率 Motor power (W)			重复定位精度 Repeated positioning accuracy (mm)			最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	Z轴
参数 Parameter	175	140	120	2000	1000	1000	3050	650	350	750	400	200	±0.04	±0.02		14

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

悬臂型-A1
Cantilever type -A1



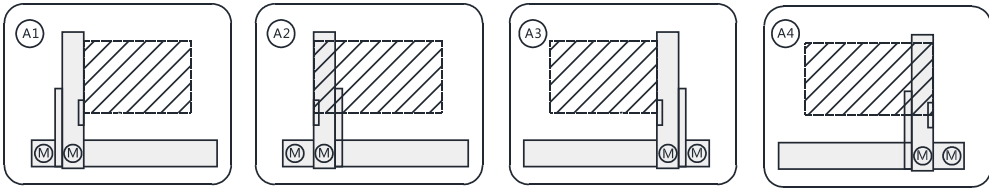
Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650
H	541.5	591.5	641.5	691.5	741.5	791.5	841.5	891.5	941.5	991.5	1042	1092
最快速度 Max Speed(mm/s)	1000											

Z轴行程 Z Stroke(mm)	100	150	200	250	300	350
W	469	519	569	619	669	719
最快速度 Max Speed(mm/s)	1000					

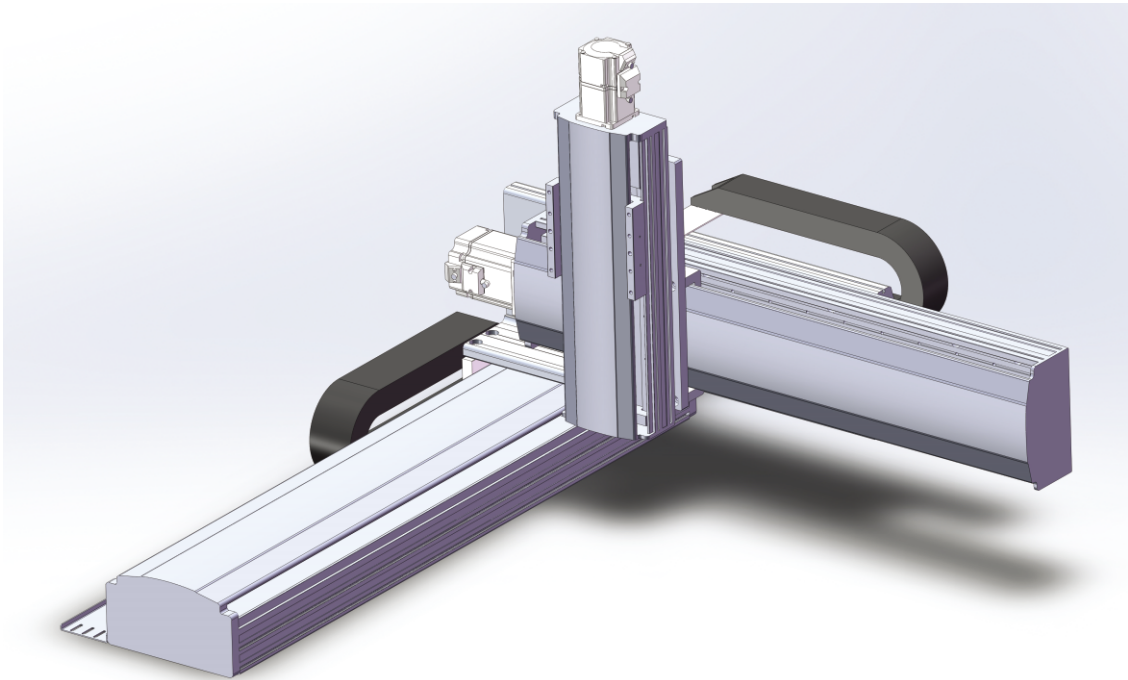
X轴行程 X Stroke(mm)	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450
L	1092	1192	1292	1392	1492	1592	1692	1792	1892	1992	2092	2192	2292	2392	2492	2592	2692	2792	2892	2992
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
最快速度 Max Speed(mm/s)	2000																			

X轴行程 X Stroke(mm)	2550	2650	2750	2850	2950	3050
L	3092	3192	3292	3392	3492	3592
A	150	50	150	50	150	50
N	30	32	32	34	34	36
M	13	13	14	14	15	15
最快速度 Max Speed(mm/s)	2000					

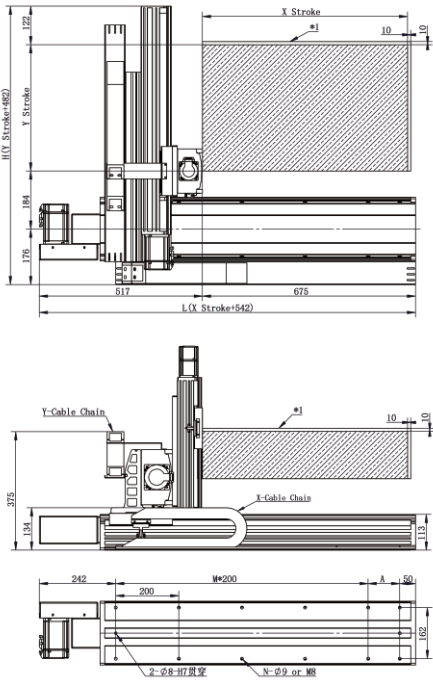
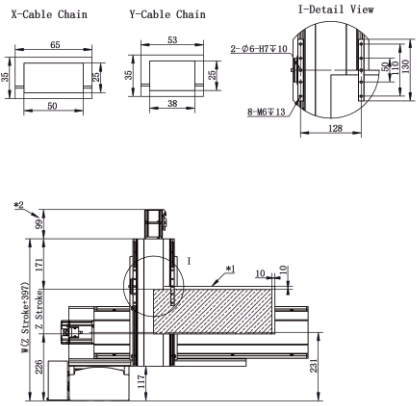
组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



三轴悬臂型-A1
3-Axis cantilever type -A1
单位 Unit(mm)



*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)			最大速度 Maximum speed (mm/s)			最大行程 Maximum stroke (mm)			建议马达功率 Motor power (W)			重复定位精度 Repeated positioning accuracy (mm)			最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	Z轴
参数 Parameter	202	175	140	2000	1250	1000	3050	650	550	750	750	400	±0.04	±0.02		22

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

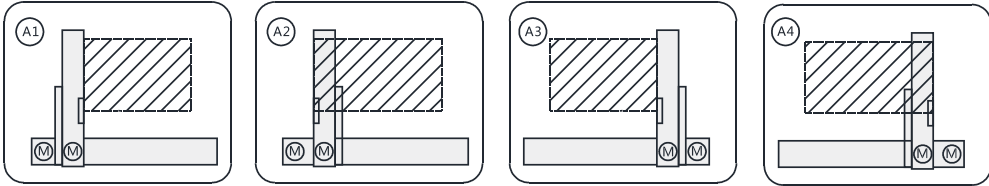
Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650
H	582	632	682	732	782	832	882	932	982	1032	1082	1132
最快速度 Max Speed(mm/s)	1250											

Z轴行程 Z Stroke(mm)	100	150	200	250	300	350	400	450	500	550
W	497	547	597	647	697	747	797	847	897	947
最快速度 Max Speed(mm/s)	1000									

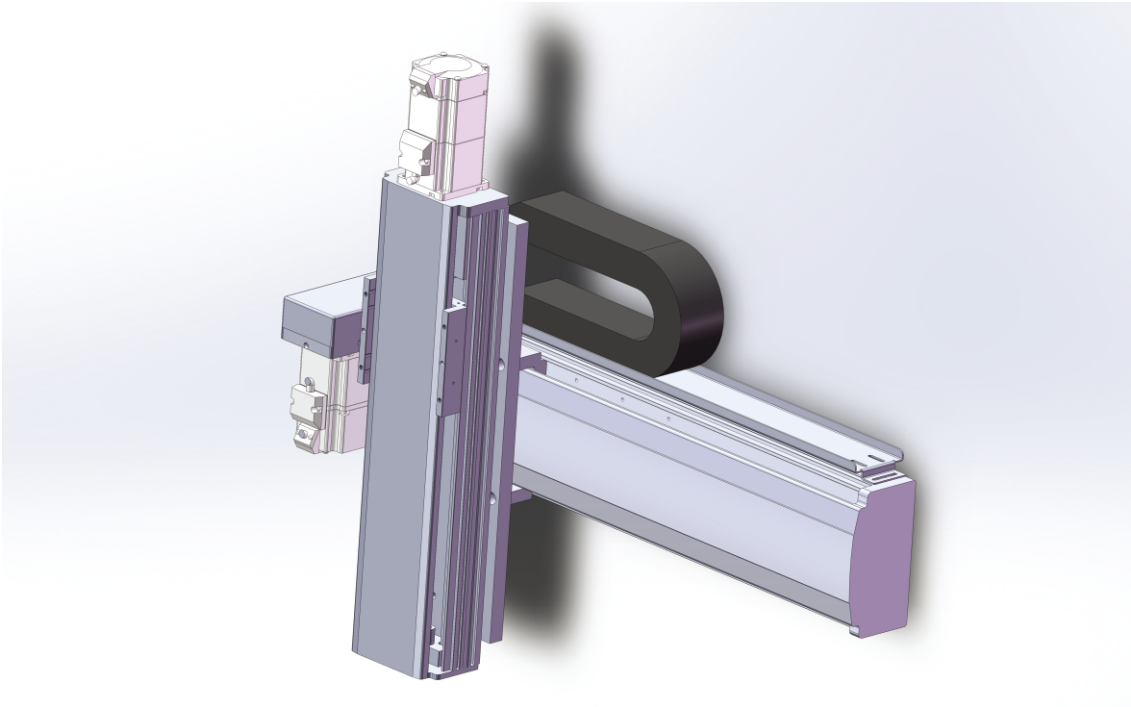
X轴行程 X Stroke(mm)	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450
L	1092	1192	1292	1392	1492	1592	1692	1792	1892	1992	2092	2192	2292	2392	2492	2592	2692	2792	2892	2992
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
M	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
最快速度 Max Speed(mm/s)	2000																			

X轴行程 X Stroke(mm)	2550	2650	2750	2850	2950	3050
L	3092	3192	3292	3392	3492	3592
A	200	100	200	100	200	100
N	30	32	32	34	34	36
M	13	14	14	15	15	16
最快速度 Max Speed(mm/s)	2000					

组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.

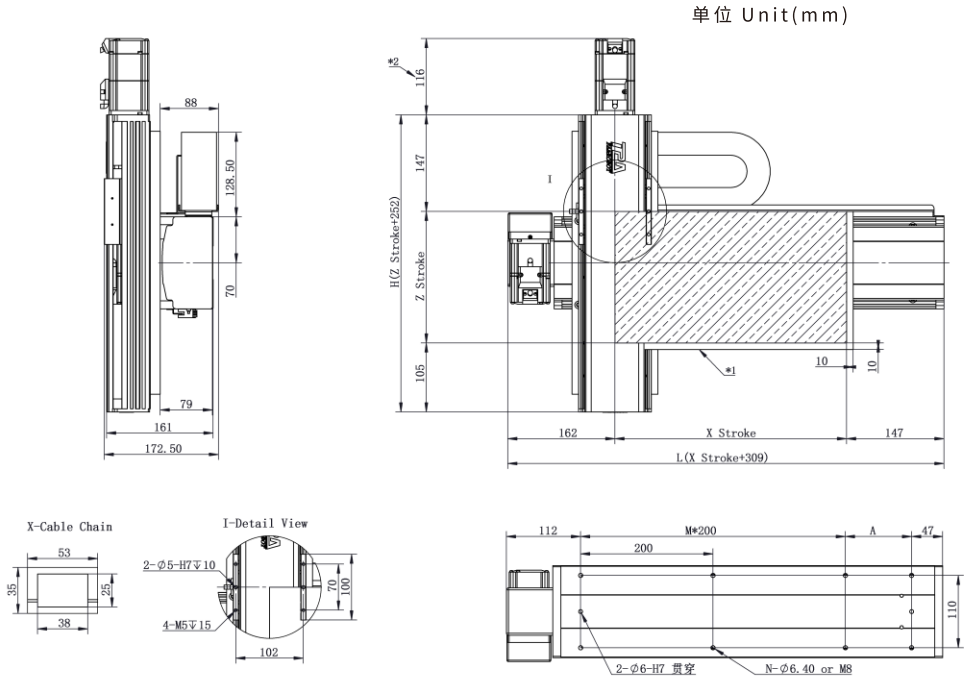


多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/S)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	Z轴
参数 Parameter	140	110	2000	1000	3050	350	400	200	±0.04	±0.02	8

说明:Y 轴行程越长, 负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

十字型-F1
Cross type -F1



*1: 原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.

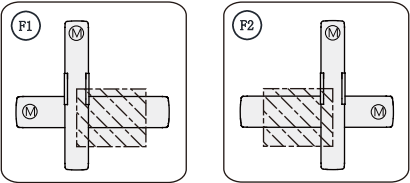
*2: 电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

X 轴行程 X Stroke(mm)	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450
L	859	959	1059	1159	1259	1359	1459	1559	1659	1759	1859	1959	2059	2159	2259	2359	2459	2559	2659	2759
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
最快速度 Max Speed(mm/s)	2000																			

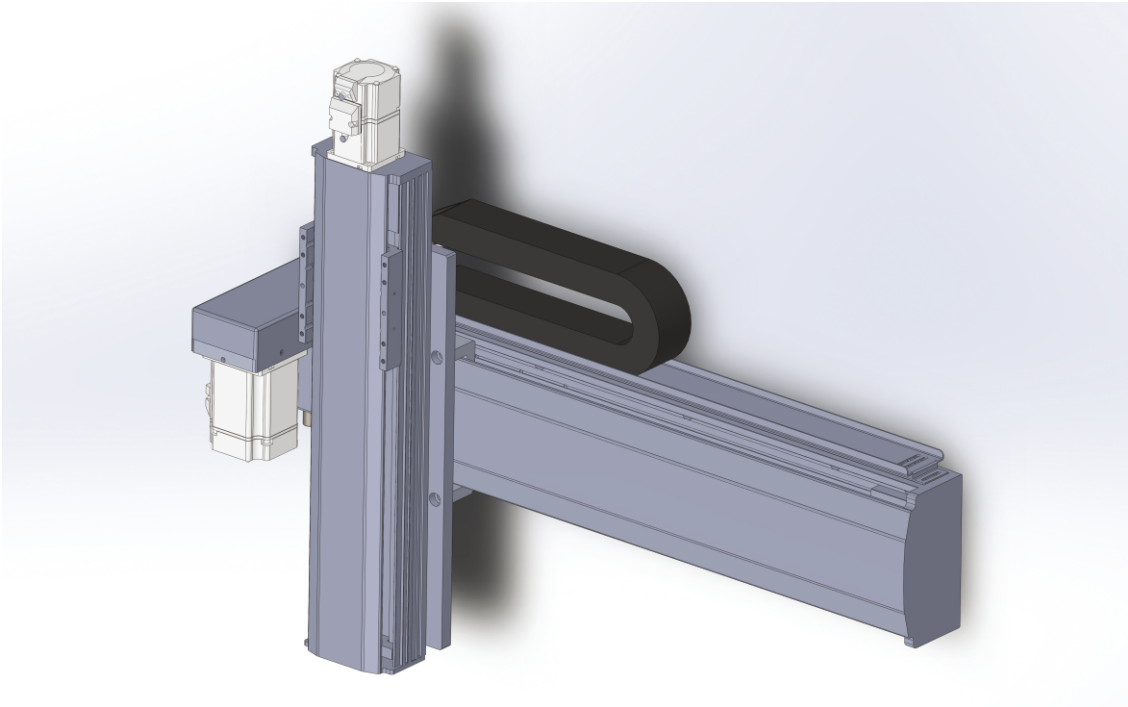
X 轴行程 X Stroke(mm)	2550	2650	2750	2850	2950	3050
L	2859	2959	3059	3159	3259	3359
A	100	200	100	200	100	200
N	30	30	32	32	34	34
M	13	13	14	14	15	15
最快速度 Max Speed(mm/s)	2000					

Z 轴行程 Z Stroke(mm)	100	150	200	250	300	350
W	352	402	452	502	552	602
最快速度 Max Speed(mm/s)	1000					

组合方向 Combination direction



补充: 最快速度表示该行程内可使用的安全速度, 若超过此速度, 滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



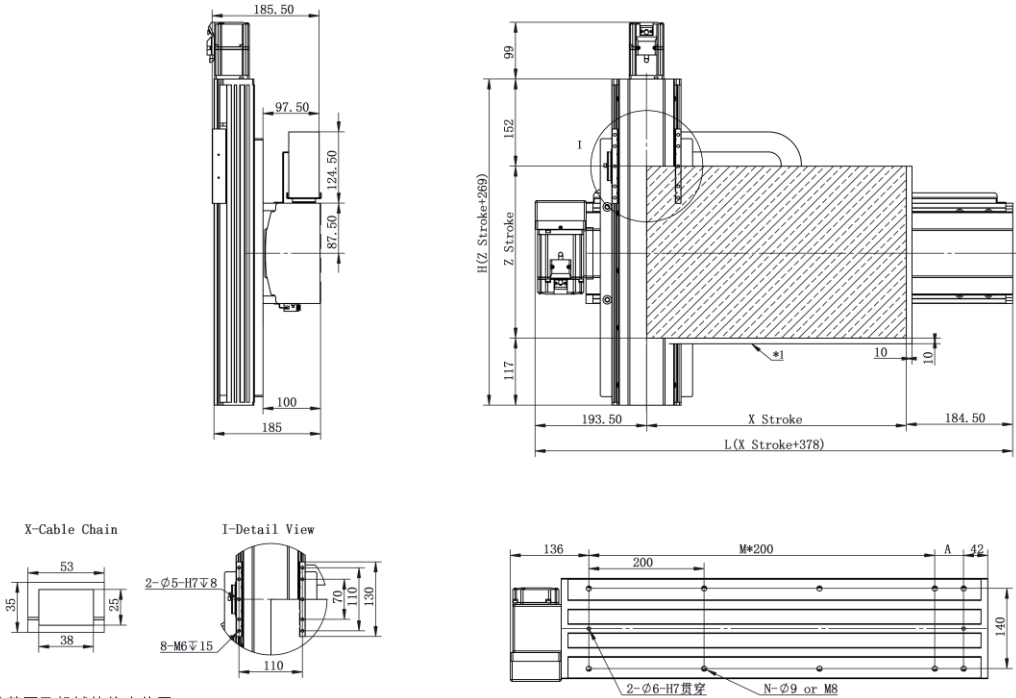
多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/s)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	X轴	Z轴	Z轴
参数 Parameter	175	120	2000	1000	3050	350	750	200	±0.04	±0.02	15

说明:Y 轴行程越长, 负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

十字型-F1
Cross type -F1

单位 Unit(mm)



*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.

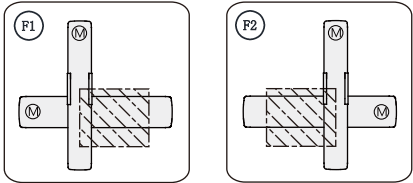
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

X 轴行程 X Stroke(mm)	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450
L	928	1028	1128	1228	1328	1428	1528	1628	1728	1828	1928	2028	2128	2228	2328	2428	2528	2628	2728	2828
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
M	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
最快速度 Max Speed(mm/s)	2000																			

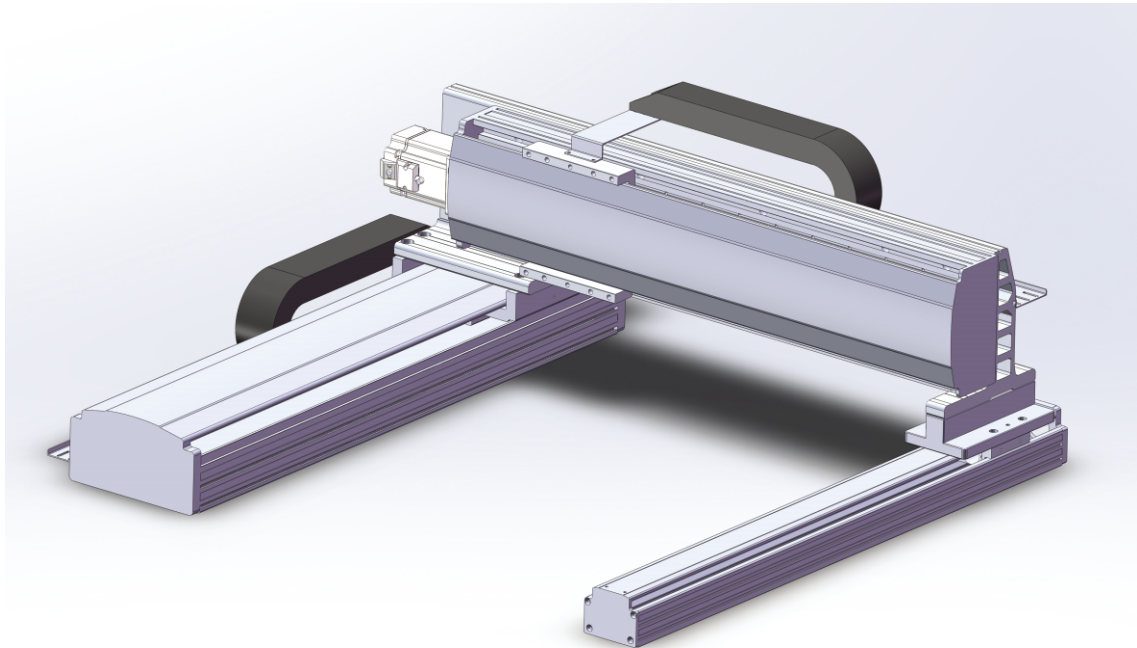
X 轴行程 X Stroke(mm)	2550	2650	2750	2850	2950	3050
L	2928	3028	3128	3228	3328	3428
A	150	50	150	50	150	50
N	30	32	32	34	34	36
M	13	14	14	15	15	16
最快速度 Max Speed(mm/s)	2000					

Z 轴行程 Z Stroke(mm)	100	150	200	250	300	350
W	369	519	419	469	569	619
最快速度 Max Speed(mm/s)	1000					

组合方向 Combination direction



补充: 最快速度表示该行程内可使用的安全速度, 若超过此速度, 滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



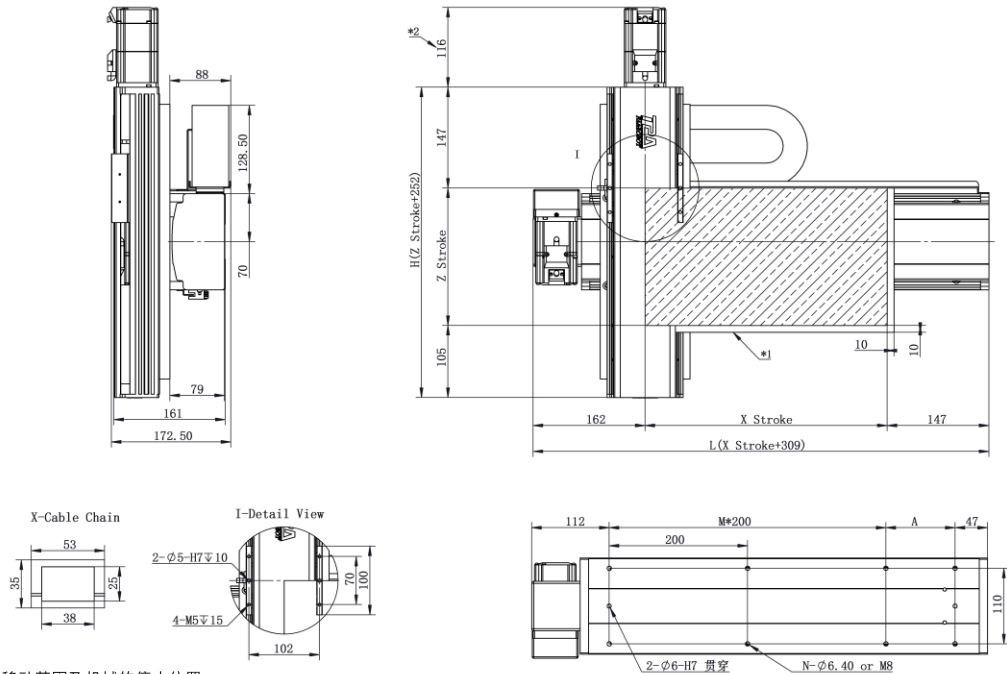
多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)		最大速度 Maximum speed (mm/s)		最大行程 Maximum stroke (mm)		建议马达功率 Motor power (W)		重复定位精度 Repeated positioning accuracy (mm)		最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	X轴	Y轴	Y轴
参数 Parameter	202	175	2000	1250	3050	750	750	750	±0.04	±0.02	50

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

龙门型- G1
Gantry type -G1

单位 Unit(mm)



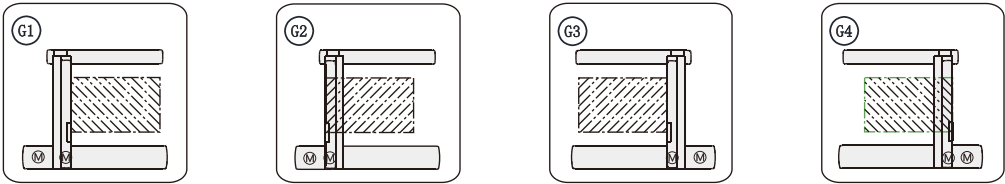
*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

X 轴行程 X Stroke(mm)	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450
L	990	1090	1190	1290	1390	1490	1590	1690	1790	1890	1990	2090	2190	2290	2390	2490	2590	2690	2790	2890
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
M	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
最快速度 Max Speed(mm/s)	2000																			

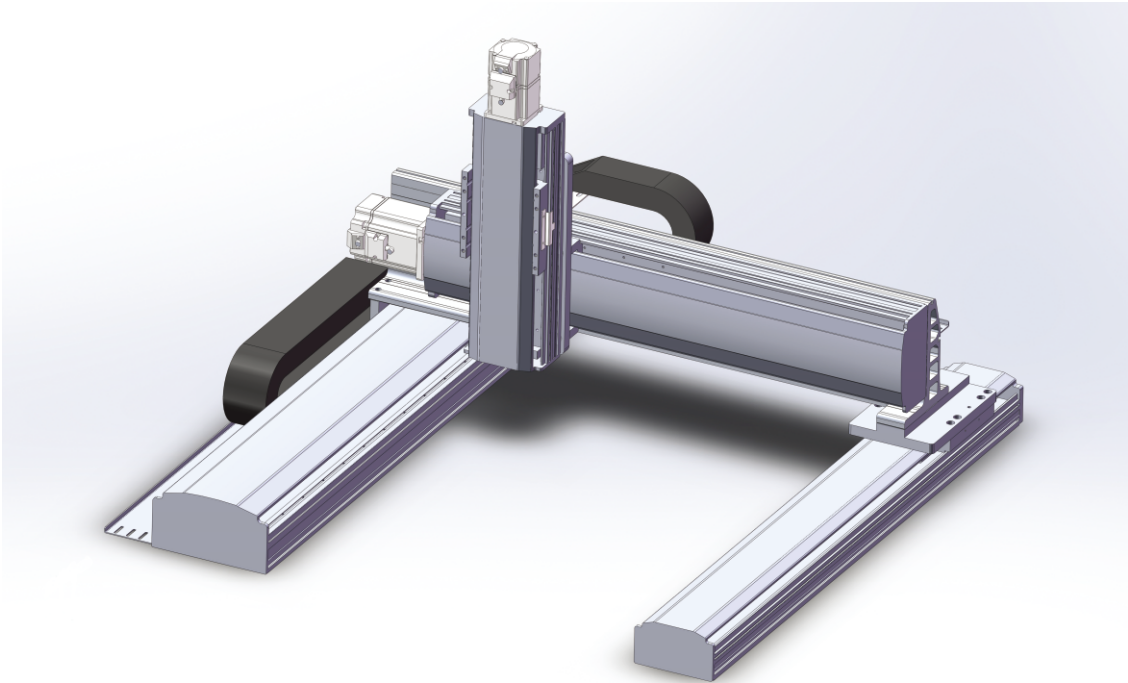
X 轴行程 X Stroke(mm)	2550	2650	2750	2850	2950	3050
L	2990	3090	3190	3290	3390	3490
A	200	100	200	100	200	100
N	30	32	32	34	34	36
M	13	14	14	15	15	16
最快速度 Max Speed(mm/s)	2000					

Y 轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750
H	603	653	703	753	803	853	903	953	1003	1053	1103	1153	1203	1253
最快速度 Max Speed(mm/s)	1250													

组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



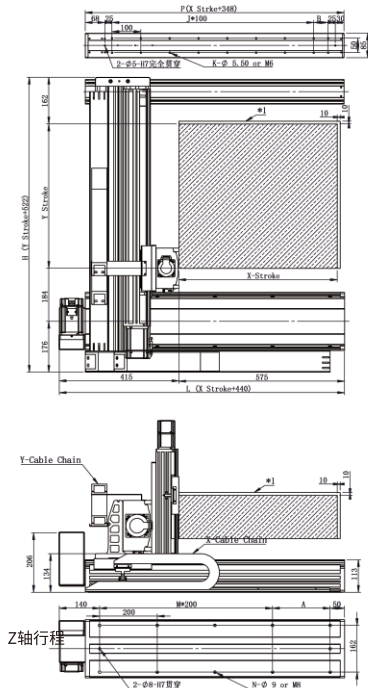
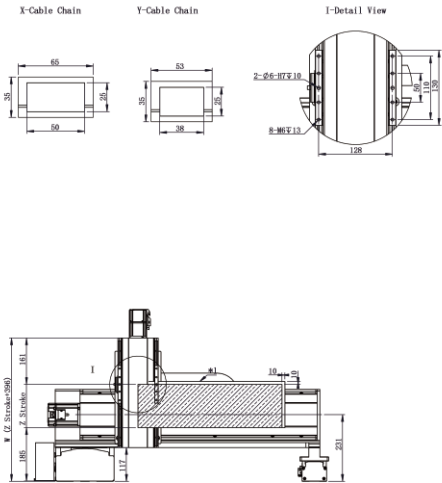
多轴组合对应参数表
Multi-axis combination corresponding parameter table

项目 Item	本体宽度 Ontology width (mm)			最大速度 Maximum speed (mm/s)			最大行程 Maximum stroke (mm)			建议马达功率 Motor power (W)			重复定位精度 Repeated positioning accuracy (mm)			最大负载 Maximum load (kg)
轴 Axis	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	X轴	Y轴	Z轴	Z轴
参数 Parameter	202	175	140	2000	1250	1000	3050	750	550	750	750	400	±0.04	±0.02		22

说明:Y轴行程越长,负载越小。
Description:the longer the Y-axis stroke, the smaller the load.

龙门型-G1
Gantry type -G1

单位 Unit(mm)



*1:原点回复时的移动范围及机械的停止位置。
The moving range of the origin and the stopping position of the machine.
*2:电机长度根据实际情况而变动。
The length of the motor varies according to the actual situation.

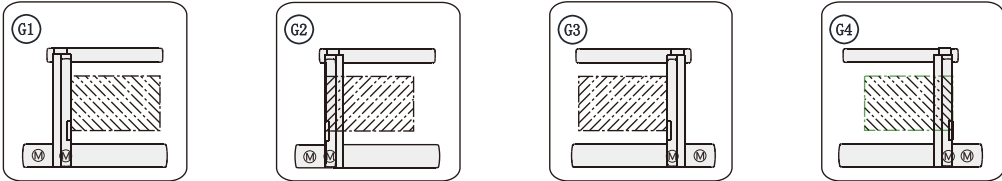
Y轴行程 Y Stroke(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750
H	622	672	722	772	822	872	922	972	1022	1072	1122	1172	1222	1272
最快速度 Max Speed(mm/s)	1250													

Z轴行程 Z Stroke(mm)	100	150	200	250	300	350	400	450	500	550
W	496	546	596	646	696	746	796	846	896	946
最快速度 Max Speed(mm/s)	1000									

X轴行程 X Stroke(mm)	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450
L	990	1090	1190	1290	1390	1490	1590	1690	1790	1890	1990	2090	2190	2290	2390	2490	2590	2690	2790	2890
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100
N	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
M	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
最快速度 Max Speed(mm/s)	2000																			

X轴行程 X Stroke(mm)	2550	2650	2750	2850	2950	3050
L	2990	3090	3190	3290	3390	3490
A	200	100	200	100	200	100
N	30	32	32	34	34	36
M	13	14	14	15	15	16
最快速度 Max Speed(mm/s)	2000					

组合方向 Combination direction



补充:最快速度表示该行程内可使用的安全速度,若超过此速度,滑台可能会发生严重抖动。
Supplement: The fastest speed means the safe speed that can be used in this trip. If the speed is exceeded, the sliding table may shake seriously.



减速机

Reducer

当使用上有低转速的运转需求时,则可使用减速机来降低马达回转速度,且可避免低速时不稳定运转。此外减速机能提高输出扭矩,扭矩输出比例按马达输出乘减速比,选配上需要注意不能超出减速机额定扭矩。

When there is a need for low-speed operation, a reducer can be used to reduce the rotation speed of the motor, and unstable operation at low speed can be avoided. In addition, the reducer can improve the output torque, torque The output ratio is multiplied by the reduction ratio according to the motor output, and attention should be paid in the selection not to exceed the rated torque of the reducer.

减速范例:3000rpm的马达,搭配上减速比1:5的减速机,即3000/5=600rpm=10rps。
其速度为:(导程X转速)200X10=2000MM/S。

Example of deceleration: 3000rpm motor, matched with reducer with 1:5 upper reduction ratio, that is, 3000/5 = 600 rpm = 10 RPS.
Its speed is: (lead x rotation speed) 200x10 = 2000MM/s.

※减速机会有高温产生,如果接触将有可能造成人员烫伤。所以接触检查等情况时,请切断控制器电源,静待片刻并在确认温度下降之后再行接触。如果有任何减速机搭配上的疑问,请与本公司联系。

※There is high temperature in the deceleration opportunity, and it may cause scalding if contacted. Therefore, please cut off the power supply of the controller and be quiet during contact inspection. Wait for a moment and make contact after confirming the temperature drop. If you have any questions about the matching of reducers, please contact our company.



减速机参考资料 Reducerreference

厂牌Brand	型号Model
APEX	AB060
	AB090
TWPX	PS060
	PS090
CST	RH060
	RH092
PHT	DS060
GTC	GNP60

滑台选配时可应使用需求,选择加装减速机,上列附表为减速机厂牌以及型号;而其详细规格尺寸信息,请参阅各厂牌规格。

When selecting the sliding table, you can choose to install the reducer according to the use requirements. The attached table above shows the brand and model of the reducer. And its detailed specification and size information, Please refer to the specifications of each brand.

伺服电机计算 Calculations about servo motors

A-电机扭矩计算公式:A- motor torque calculation formula:

$$T=9.5\times P/N$$

T=电机扭矩 T = motor torque

P=电机功率 P = motor power

N=电机转速 N = motor speed

B-螺杆推力计算公式:B- Screw thrust calculation formula:

$$F=T_m\times 2\times \pi \times \eta /S$$

F=螺杆推力 F=Ball screw thrust

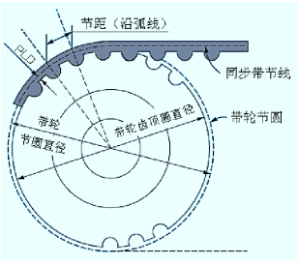
T_m=入力扭矩 T_m=Force torque

η=马达正效率 η=Positive efficiency of motor

S=螺杆导程 S=Lead of ball screw

C-皮带轮导程计算公式:B- pulley lead calculation formula:

$$\text{节圆直径PD}=\text{节距}\times\text{齿数}/\pi$$
$$\text{Pitch diameter PD}=\text{pitch}\times\text{number of teeth}/\pi$$



滚珠螺杆精度等级

Accuracy grade of ball screw

滚珠螺杆(示意图)

Ball screw(schematic diagram)



滚珠螺杆国际标准精度等级(单位:0.001mm)
International standard accuracy grade of ball screw

等级Class		研磨级Grinding grade							转造级Rolling grade		
		C0	C1	C2	C3	C4	C5	C6	C7	C8	C10
V300	ISO, DIN	—	6	—	12	—	23	—	52	—	210
	TBI/PMI	3. 5	5	—	8	—	18	—	50	—	210
	HIWIN	3. 5	5	6	8	12	18	23	50	100	210

螺杆外径、精度与制造长度对照表(单位:mm)
Diameter, accuracy and manufacturing length of ball serew

精度等级 Accuracy	外径Diameter								
	6	8	10	12	16	20	25	28	32
C3	170	250	500	630	1000	1400	1800	2000	2500
C4	170	250	500	630	1000	1400	1800	2000	2500
C5	170	250	500	630	1410	1700	2400	2500	3000
C6	400	800	1000	1200	1500	1800	2500	3000	3000
C7	400	800	1000	1200	3000	3000	4000	4000	4500

精度等级 Accuracy	外径Diameter								
	36	40	45	50	55	63	70	80	100
C3	3200	3500	4000	4500	5000	6000	7100	10000	10000
C4	3200	3500	4000	4500	5000	6000	7100	10000	10000
C5	3200	3800	4000	5000	5500	6900	7100	10000	10000
C6	4000	4000	4000	5600	5600	6900	7100	10000	10000
C7	4500	5600	5600	5600	5600	6900	7100	10000	10000

• 选配螺杆型滑台时,可应实际使用需求选配螺杆等级,下表为螺杆等级使用推荐表

When selecting the screw slide table, the screw grade can be selected according to the actual userequirements. The following table is the recommendation table for the use of screw grade.

用途Use	精密等级Accuracy	
	C5	C7
专用机Special machine	●	
木工机Woodworking machine		●
机械手臂(一般级) Robot Arm(General Grade)	●	●
传统机械Traditional machinery	●	
搬送装置Transport device	●	●
X-Y平台 X-Y stage	●	
阀门Valve		●
动力转向器Power steering gear		●
玻璃研磨机Glass grinder	●	
表面研磨机Surface grinder	●	
半导体设备Semiconductor equipment		●
全电式射出成形机 All electric injection molding	●	●



联轴器

Coupling

膜片联轴器安装注意说明 Notes on Installation of Diaphragm Coupling

锁付螺丝时有相对应之锁固力，请参阅下表，切勿过度施力或是未锁紧。
locking force when locking screws, please refer to the following table, do not overexert or unlocked.

在夹紧螺丝处于松动状态下，请确认联轴器是否能沿轴向和旋转方向轻轻移动。如果不能平稳移动的话，需重新调整两个轴的同心度（马达锁固螺丝）。

When the clamping screw is loose, please confirm whether the coupling can move slightly in the axial and rotational directions. If you can't move smoothly, you need to readjust two. Concentricity of shaft (motor locking screw).

两个轴的同心度若差异太大时，将产生异音或是造成连轴器损坏。
If the concentricity of the 2 axes is too large. it will cause abnormal sound or cause damage to the coupl ing.

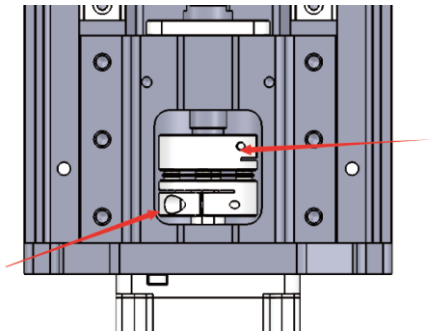


图1 Figure 1

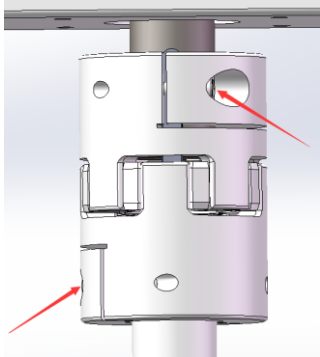
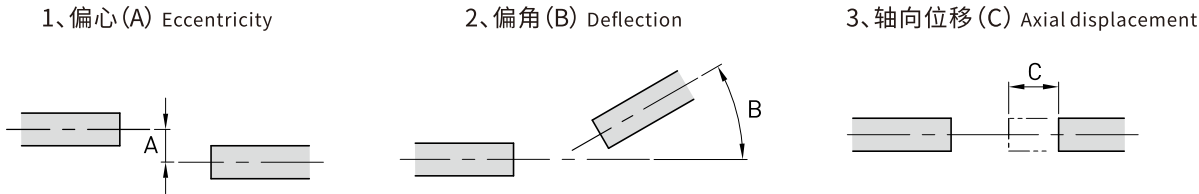


图2 Figure 2

尺寸 Size	夹紧螺栓 Clamping bolt	锁紧扭矩 Locking torque (N • m)
20	M2. 5	1. 0~1. 1
25	M2. 5	1. 0~1. 1
30	M3	1. 5~1. 9
35	M4	3. 4~4. 1
40	M4	3. 4~4. 1
50	M5	7. 0~8. 5

如图1、2先套上联轴器，用手先转动，检测同心度，然后按照左图扭力锁紧螺丝。
As shown in figure 1、2,first put on the coupling, turn it by hand to detect the concentricity,and then lock the screw according to the torsional force in the left figure.

螺杆肩部与电机轴两轴组装时，需注意以下三种基本偏差，说明图示如下：
When assembling the screw and the motor shaft, the following three basic deviation should be paid attention to. The illustration is as follows:



若自行购买马达安装，安装联轴器时需特别注意下列几点：
◆ 锁付螺丝时相对应之锁固力，请参阅右表，切勿过度施力或是未锁紧。
◆ 在夹紧螺丝虽处于松动状态下，请确认联轴器是否能沿轴向和旋转方向轻轻移动。如果不能平稳移动的话，需重新调整2个轴的同心度（马达锁固螺丝）。
◆ 2个轴的同心度若差异太大时，将产生异音或是造成连轴器损坏。

※调整2个轴的对心若有问题时，请与本公司联络。

If you purchase the motor for installation by yourself, pay special attention to the following points when installing the coupling:
◆ Please refer to the right table for the corresponding locking force when locking screws. Do not apply excessive force or unlock them.
◆ Although the clamping screw is loose, please confirm whether the coupling can be light in the axial and rotational directions. Move lightly. If it can't move smoothly, it is necessary to readjust the concentricity of the two shafts (motor locking screws).
◆ If the concentricity of two shafts is too different, abnormal sound will be produced or the coupling will be damaged.

※If there is any problem in adjusting the alignment of two axes, please contact our company.

夹紧螺栓 The clamping bolt	锁紧扭矩 Locking torque (N • m)
M2. 5	1. 0~1. 1
M2. 5	1. 0~1. 1
M3	1. 5~1. 9
M4	3. 4~4. 1
M4	3. 4~4. 1
M5	7. 0~8. 5

联轴器参考资料 Reference data of coupling

型号 Model	容许扭矩 Permissible torque [N • m]	最大容许误差 Maximum permissible error			最高转速 Max speed [min-1]	扭转弹性 Torsional elasticity [N • m/rad]	轴向弹性 Axial elasticity [N • m/rad]	转动惯量 Moment of inertia [kg • m2]	质量 Weight [kg]
		偏心 Eccentricity [mm]	偏角 Declination [°]	轴向位移 Axial displacement [mm]					
SFC-005SA2	0. 5	0. 02	0. 5	±0. 05	10000	500	140	0. 25x10-6	0. 007
SFC-010SA2	0. 8	0. 02	1	±0. 1	10000	1400	140	0. 58x10-6	0. 011
SFC-020SA2	1. 5	0. 02	1	±0. 15	10000	3700	64	2. 36x10-6	0. 025
SFC-030SA2	4	0. 02	1	±0. 2	10000	8000	64	4. 00x10-6	0. 033
								6. 06x10-6	0. 041
								8. 12x10-6	0. 049
SFC-035SA2	6	0. 02	1	±0. 25	10000	18000	112	18. 43x10-6	0. 084
SFC-040SA2	10	0. 02	1	±0. 3	10000	20000	80	16. 42x10-6	0. 076
								22. 98x10-6	0. 09
								29. 53x10-6	0. 105
SFC-050SA2	25	0. 02	1	±0. 4	10000	32000	48	54. 88x10-6	0. 156
								77. 10x10-6	0. 185
								99. 33x10-6	0. 214
SFC-060SA2	60	0. 02	1	±0. 45	10000	70000	76. 4	143. 7x10-6	0. 279
								206. 1x10-6	0. 337
								268. 5x10-6	0. 396
SFC-080SA2	100	0. 02	1	±0. 55	10000	140000	128	709. 3x10-6	0. 727
SFC-090SA2	180	0. 02	1	±0. 65	10000	100000	108	1227x10-6	0. 959
SFC-100SA2	250	0. 02	1	±0. 74	10000	120000	111	1858x10-6	1. 181

※表中的转动惯量及质量是最大孔径时之值；表中的扭转弹性常数仅为元件部分之值。
※The moment of inertia and mass in the table are the values at the maximum aperture; The values of torsional elasticity constants in the table are only the values of components.



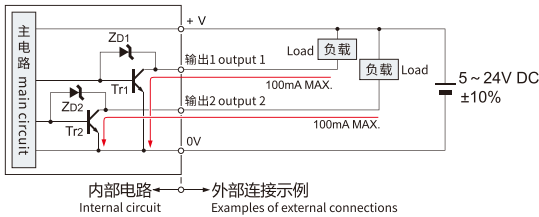
光电感应器接线说明

Wiring instructions of photoelectric sensor

直流4线式NPN输出 DC 4 wire NPN output

输入、输出电路

Input and output circuits

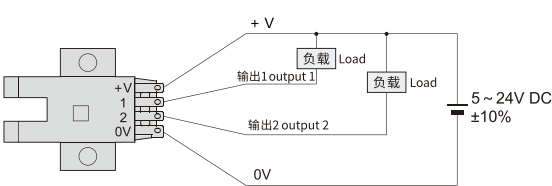


(注1): 对不使用的输出线, 请务必进行绝缘处理。
(Note 1): The unused output lines must be insulated.

符号...	ZD1、ZD2: 电涌吸收齐纳二极管 Surge absorption zener diode
Symbol...	Tr1、Tr2: NPN输出晶体管 NPN output transistor

连接图

Connected graph



输出动作 Output action

	输出动作 Output action
输出1 output 1	遮光时ON Shading time ON
输出2 output 2	入光时ON Incident light ON

使用安全注意事项

Safety use and cautions

◆ 以下为几条建议以防产品使用过程中产生问题。
Here are a few Suggestions to prevent problems during product use.

为防止事故发生及安全维护, 请使用本公司产品前, 必须了解产品的特性和使用条件、安装说明。

In order to prevent accidents and safety maintenance, before you use the company's product, you must understand the characteristics of the products and use conditions, installation instructions.

请在选型的参数范围内使用本型号的产品, 不可超出参数范围使用, 否则会造成不可预知的危险。如果是特殊条件使用, 必须确认在可控安全性能之内, 方能使用, 对产品参数如有疑问, 在未使用之前, 可咨询本公司相关技术。

Please use the product of this model within the selected parameter range, and do not use it beyond the parameter range, otherwise it will cause unpredictable danger. If it is used under special conditions, it must be confirmed that it is within the controllable safety performance before it can be used. If you have any questions about the product parameters, you can consult the relevant technology of our company before you use it.

请勿私自拆卸本产品结构, 功能做分解及改造, 如因人为造成的一切原因, 本公司不负责产品故障造成的损失。

Please do not disassemble the structure and function of this product without permission, and decompose and transform it. For all reasons caused by man-made, our company will not be responsible for the loss caused by product failure.

请注意: 当产品为垂直安装的时候, 请注意拆卸马达时, 滑座物件是否会自行下降, 建议拆卸的时候将滑座物件下降到最低端再拆卸。

Please note: When the product is installed vertically, please pay attention to whether the slide object will drop by itself when the motor is disassembled. It is recommended to remove the slide object. Lower to the lowest end before disassembly.

产品运行前, 先检查电缆线端子是否接触良好, 否则会导致电机发热发烫, 运行不畅。

Before running the product, check whether the cable terminals are in good contact or not, otherwise the motor will become hot and run poorly.

调试马达参数的时候需要考虑到惯性及加减速速度等原因, 先手动控制, 来回点动, 防止调试不适当, 撞坏物件。不允许手及其它物体接触, 保持一定安全距离, 防止造成误伤。

When debugging the parameters of the motor, we need to consider the reasons of inertia, acceleration and deceleration. We should control the motor manually and move it back and forth to prevent the inappropriate debugging and damage the object. It is not allowed to contact hands and other objects to maintain a safe distance and prevent accidental injury.

当选用螺杆传动产品的时候, 如超出螺杆细长比参数, 可能会发生共振现象, 此时应降低移动速度。如选用皮带传动产品的时候, 如电机报警, 产品运行不动, 此时因加减速机, 调节电机刚性, 加大扭矩, 从而平稳运行。

When the screw drive product is selected, if the slenderness ratio parameter of the screw exceeds, resonance may occur, so the moving speed should be reduced. Choose a belt. When the product is driven, such as the motor alarm, the product will not move. At this time, the reducer is added to adjust the rigidity of the motor and increase the torque, so as to run smoothly.

安装本产品时, 请务必确认所有的螺丝均已按要求锁紧, 否则产品运行时可能会发生危险。

When installing this product, please make sure that all screws are locked as required, otherwise the product may be in danger during operation.

请不要在接通电源的情况下进行产品拆装或零部件拆装, 否则可能发生触电、故障或其它危险。

Please do not disassemble the product or parts when the power is turned on, otherwise electric shock, malfunction or other dangers may occur.

禁止撕除警告标示, 或者警告标示被其它物品遮挡, 否则可能因为没有看到警告而导致事故发生。

It is forbidden to tear off the warning signs, or the warning signs are blocked by other objects, otherwise the accident may occur because you don't see the warning.

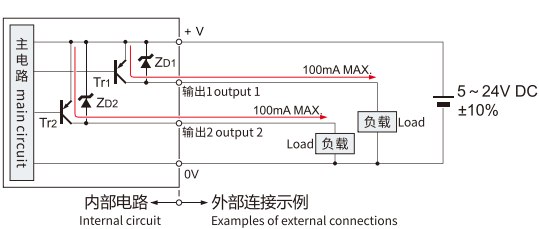
本注意事项无法完全涵盖所有的问题, 请务必详细了解产品及其使用说明, 并遵守相关安全守则, 做好必要保护措施, 以免造成产品损坏或导致人身安全问题。如有其它相关问题, 可咨询本公司。

This note can not cover all the problems. Please be sure to understand the product and its instructions in detail. comply with relevant safety codes, and take necessary protective measures to avoid product damage or personal safety problems. If you have any other related questions, you can consult us.

直流4线式PNP输出 DC 4 wire PNP output

输入、输出电路

Input and output circuits

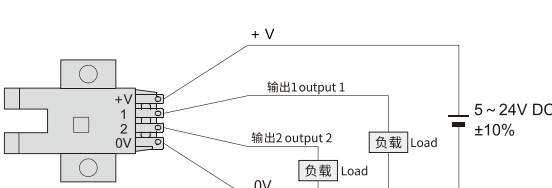


(注1): 对不使用的输出线, 请务必进行绝缘处理。
(Note 1): The unused output lines must be insulated.

符号...	ZD1、ZD2: 电涌吸收齐纳二极管 Surge absorption zener diode
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连接图

Connected graph



输出动作 Output action

	输出动作 Output action
输出1 output 1	遮光时ON Shading time ON
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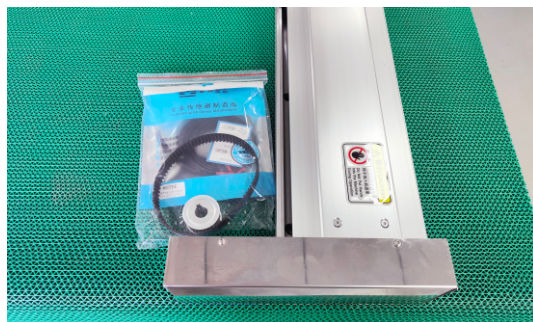


同步带轮的安装方法

Installation of timing pulley and motor

1、下图为螺杆模组的转折形式：成品模组+同步轮+同步带+槽型光电（同步带形式模组安装方法一致，可参考本文）。

1、The following figure shows the turning form of screw module: finished module+synchronous wheel+synchronous belt+groove photoelectric (the installation method of synchronous belt module is the same, please refer to this article).



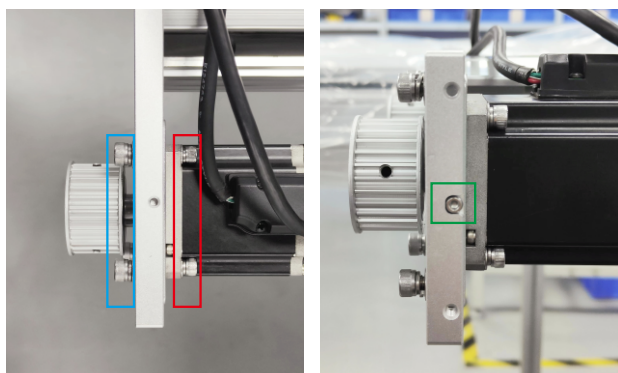
2、拆卸固定钣金的螺丝后，即可看到螺杆端同步轮我厂已安装好。只需要客户安装电机/减速机端的同步轮。

2、After removing the screws fixing the sheet metal, we can see that the screw end synchronous wheel has been installed in our factory. Only the customer needs to install the synchronous wheel at the motor/reducer end.



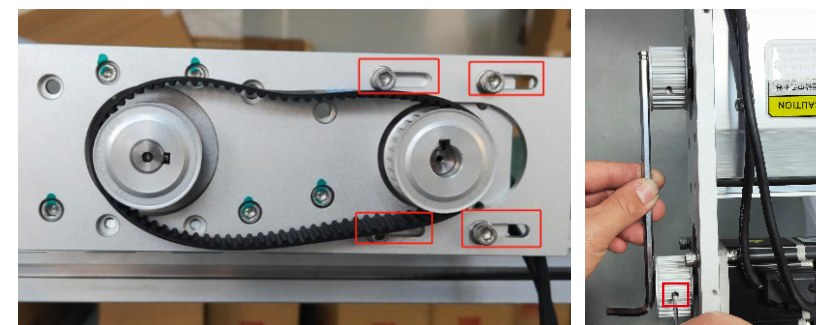
3、安装电机（一般电机包装内有螺丝提供），并锁紧固定电机的4颗螺丝（红色区域）之后拧松固定拉板的固定螺丝（蓝色和绿色区域）。

3、Install the motor (screws are provided in the general motor package), and after locking the four screws (red areas) that fix the motor, loosen the fixing screws (blue and green areas) that fix the pull plate.



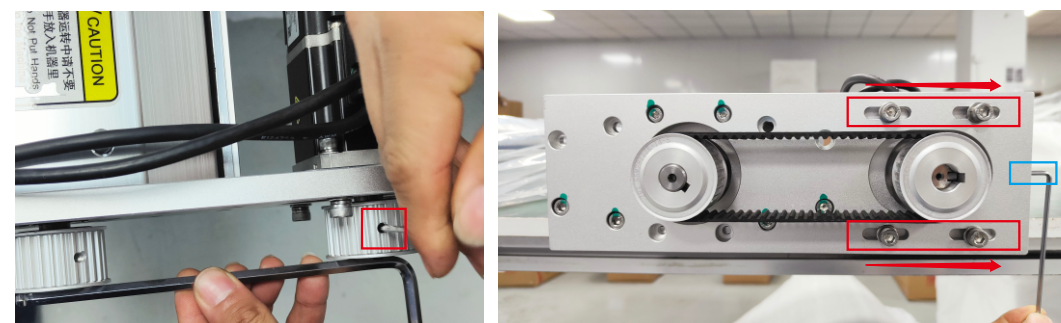
4、因拧松固定拉板的螺丝。电机端同步轮可左右来回活动。借助6MM六角扳手（不限于扳手）。

4、Loosen the screw fixing the pull plate. The synchronous wheel at the motor end can move back and forth left and right. With the help of a 6MM hex wrench (not limited to wrenches).



5、固定同步轮上紧固螺丝（一般情况下2个）。蓝色区域M3螺丝锁紧，红色区域螺丝会向右侧移动。蓝色区域张紧中，可用手感受同步带的张紧，也可使用专业设备测试张紧。最后在安装钣金折罩，固定螺丝即可。

5、Fastening screws on the synchronizing wheel (usually 2). The blue area M3 screw is locked, and the red area screw will move to the right. In the blue area, feel is available. When the timing belt is tensioned, you can also use professional equipment to test the tension. Finally, install the sheet metal folding cover and fix the screws.





维护保养手册

一、日常检查项目

线性模组是一种常见的传动机构, 在实际操作中, 被广泛应用到各种各样的设备中, 因使用环境和使用工况不同, 需要及时检查和维护。

日 常 检 查 项 目	
1. 检查部件表面是否有损伤, 压痕和摩擦情况。	2. 滚珠螺杆、轨道、轴承是否有异常震动或噪音。
3. 电机、联轴器是否有异常震动或噪音。	4. 所见部位是否有不明粉尘、油渍、痕迹等。

二、周期维护项目

配 件	维 护 方 案	维 护 周 期	具 体 操 作
滚珠螺杆	增加润滑脂(粘度:30-40cts) 清理旧油污, 注入新润滑脂。	每月一次或每行走100KM的距离	用无尘布直接擦拭干净螺杆珠槽和螺母两端, 将新润滑脂直接注入油孔或涂抹螺杆表面。
线性滑轨	增加润滑脂(粘度:30-150cts) 清理旧油污, 注入新润滑脂。	每月一次或每行走100KM的距离	用无尘布直接擦拭干净轨道表面及轨道珠槽, 将新润滑脂直接注入油孔。

三、异常问题以及解决方法

线 性 模 组 异 常 情 况	维 修 、 排 除 方 法
电源接入时产生异音	1. 调整伺服驱动器内参数“机械共振抑制”数值。 2. 调整伺服驱动器内参数“自动调谐”数值。
马达转动时产生异音	1. 调整伺服驱动器内参数“机械共振抑制”数值。 2. 调整伺服驱动器内参数“自动调谐”数值。 3. 检查马达刹车是否释放。 4. 检查机构是否因超载产生变形。
马达运转时滑台不顺畅	1. 检查刹车是否释放。 2. 将马达与线性模组分离, 手推滑动座, 判断问题点原因。 3. 检查联轴器固定螺丝是否松动。 4. 检查线性模组移动区域是否有异物掉落。
线性模组行走距离与实际距离不符	1. 检查输入行走数值是否正确。 2. 检查导程输入数值是否正确。
马达运动ON,滑台没有移动	1. 检查刹车是否释放。 2. 检查联轴器固定螺丝是否松动。 3. 将马达与线性模组分离, 判断问题点、原因。

另本公司负责自身商品的故障维修, 并不负责因产品故障引起的其他损失。

Maintenance manual

一、Daily inspection items

Linear module is a common transmission mechanism, which is widely used in all kinds of equipment in actual operation. It needs to be checked and maintained in time because of the different environment and working conditions.

Daily inspection items	
1. Check the surface of parts for damage, indentation and friction.	2. Is there any abnormal vibration or noise in the screw, track and bearing.
3. Whether the motor and coupling have abnormal vibration or noise.	4. See if there are any unknown dust, oil stains, traces, etc.

二、Periodic maintenance project

Parts	Maintenance scheme	Maintenance cycle	Specific operation
Ball screw	Add grease (viscosity: 30-40cts) Clean up old grease and inject new grease.	Once a month or every 100KM distance.	Clean the screw bead groove and both ends of the nut directly with a dust-free cloth, and directly inject new grease into the oil hole or coat the screw surface.
Linear slide rail	Add grease (viscosity: 30-150cts) Clean up old grease and inject new grease.	Once a month or every 100KM distance.	Clean the track surface and track bead groove directly with a dust-free cloth, and directly inject new grease into the oil hole.

三、Exceptions and solutions

Linear module abnormal situation	Maintenance and troubleshooting methods
Abnormal sound is produced when the power supply is connected.	1. Adjust the value of the servo drive parameter "mechanical resonance suppression". 2. Adjust the value of Auto tuning in the servo driver.
Abnormal sound is produced when the motor rotates.	1. Adjust the value of the servo drive parameter "mechanical resonance suppression". 2. Adjust the value of Auto tuning in the servo driver. 3. Check whether the motor brake release. 4. Check whether the mechanism is deformed due to overload.
The sliding table is not smooth when the motor is running.	1. Check the brake release. 2. Separate the motor from the linear module and push the sliding seat to determine the cause of the problem. 3. Check the coupling setting screws for loosening. 4. Check whether foreign objects have fallen from the moving area of the linear module.
The linear walking distance of the module is inconsistent with the actual distance.	1. Check whether the input walking value is correct. 2. Check whether the lead input value is correct.
The motor is ON, and the slide table does not move.	1. Check the brake release. 2. Check whether the coupling fixing screw is loose. 3. Separate the motor from the linear module to determine the cause of the problem.

In addition, the company is responsible for the fault maintenance of its own goods, and is not responsible for other losses caused by product failure.



维护保养手册

一、日常检查项目

线性模组是一种常见的皮带传动机构, 在实际操作中, 被广泛应用到各种各样的设备中, 因使用环境和使用工况不同, 需要及时检查和维护。

日 常 检 查 项 目	
1. 检查部件表面是否有损伤, 压痕和摩擦情况。	2. 检查皮带是否张紧, 是否达到张力计参数标准。
3. 调试的时候因查阅同步带参数避免速度过快撞机。	4. 模组程序启动, 人应离开模组安全距离, 避免人身伤害。

二、周期维护项目

配 件	维 护 方 案	维 护 周 期	具 体 操 作
同步带	垂直使用情况下, 皮带张紧力校核。	每半个月检查下皮带松弛。	把张力计对着皮带间距10MM处, 手拨动皮带, 皮带震动显示数值, 是否达到出厂时的参数值, 若不是, 拧紧张紧机构。
线性滑轨	增加润滑脂(粘度:30-150cts)清理旧油污, 注入新润滑脂。	每月一次或每行走100KM的距离。	用无尘布直接擦拭干净轨道表面及轨道珠槽, 将新润滑脂直接注入油孔。

三、异常问题以及解决方法

线 性 模 组 异 常 情 况	维 修 、排 除 方 法
电源接入时产生异音	1. 调整伺服驱动器内参数“机械共振抑制”数值。 2. 调整伺服驱动器内参数“自动调谐”数值。
如联轴器, 同步轮出现打滑	1. 检查同步轮, 联轴器是否锁紧。 2. 检查同步轮, 联轴器是否带键槽。 3. 同步轮和联轴器的轴是否匹配。
马达运转时滑台不顺畅	1. 检查刹车是否释放。 2. 将马达与线性模组分离, 手推滑动座, 判断问题点原因。 3. 检查联轴器固定螺丝是否松动。 4. 检查线性模组移动区域是否有异物掉落。
皮带模组运行出现定位精度不准	1. 检查皮带是否松弛, 皮带出现跳齿。 2. 检查皮带导程输入数值是否正确。
如伺服电机报警, 显示过载	1. 检查刹车是否释放。 2. 检查联轴器固定螺丝是否松动。 3. 因加减速机, 加大速比, 增大扭矩, 降低速度。

另本公司负责自身商品的故障维修, 并不负责因产品故障引起的其他损失。

Maintenance manual

一、Daily inspection items

Linear module is a common belt transmission mechanism, which is widely used in all kinds of equipment in actual operation. It needs to be checked and maintained in time because of the different environment and working conditions.

Daily inspection items	
1. Check the surface of parts for damage, indentation and friction.	2. Check whether the belt is tensioned and meets the parameter standard of tensiometer.
3. When debugging, consult the timing belt parameters to avoid too fast collision.	4. When the module starts, people should leave the module at a safe distance to avoid personal injury.

二、Periodic maintenance project

Parts	Maintenance scheme	Maintenance cycle	Specific operation
Synchronous belt	Under vertical use, belt tension Check.	Check the belt slack every half month.	Point the tensiometer at the belt spacing of 10mm, and touch the belt by hand. The vibration of the belt shows whether the value reaches the factory parameter value. If not, screw the tensioning mechanism.
Linear slide rail	Add grease (viscosity: 30-150cts) Clean up old grease and inject new grease.	Once a month or every 100KM distance.	Clean the track surface and track bead groove directly with a dust-free cloth, and directly inject new grease into the oil hole.

三、Exceptions and solutions

Linear module abnormal situation	Maintenance and troubleshooting methods
Abnormal sound is produced when the power supply is connected.	1. Adjust the value of the servo drive parameter "mechanical resonance suppression". 2. Adjust the value of Auto tuning in the servo driver.
For example, the coupling and synchronous wheel slip.	1. Check whether the synchronizing wheel and coupling are locked. 2. Check whether the synchronizing wheel and coupling have keyways. 3. Whether the shafts of the synchronizing wheel and the coupling are matched.
The sliding table is not smooth when the motor is running.	1. Check the brake release. 2. Separate the motor from the linear module and push the sliding seat to determine the cause of the problem. 3. Check the coupling setting screws for loosening. 4. Check whether foreign objects have fallen from the moving area of the linear module.
The positioning accuracy of belt running is inaccurate.	1. Check whether the belt is slack, and the belt has tooth jumping. 2. Check whether the input value of belt lead is correct.
If the servo motor alarms, overload is displayed.	1. Check the brake release. 2. Check whether the coupling fixing screw is loose. 3. Increase the speed ratio, torque and speed by adding a reducer.

In addition, the company is responsible for the fault maintenance of its own goods, and is not responsible for other losses caused by product failure.

HNR
HCR
HNB
HCB
HNT
XYZ
参考资料 Reference data



伺服滑台需求规格调查表

客户名称:							邮箱:						
电话:							地址:						
接洽人:							职称:						
使用需求	行程 (mm):						最大速度 (mm/s):						
	负载 (kg):						重复定位精度 (mm):						
	停留时间 (s):						加减速时间 (s):						
	安装方式:												
	工件力矩 (mm)												
		A	B	C	A	B	C	A	C				
组合形式	A系列	A1 ☐		A2 ☐		A3 ☐		A4 ☐		A: _____			
	G系列	G1 ☐		G2 ☐		G3 ☐		G4 ☐		G: _____			
	F系列	F1 ☐		F2 ☐		F3 ☐		F4 ☐		F: _____			
	P系列	P1 ☐		P2 ☐		P3 ☐		P4 ☐		P: _____			
Y轴悬臂过长, 建议跨距0-500以内使用辅助轨, 500-800使用辅助轴, 800-1200使用双驱。													
电机连接方式	X轴	M ☐ MD ☐	MP ☐ MU ☐	MR ☐ ML ☐	LP ☐ LU ☐	RP ☐ RU ☐	DL ☐ DR ☐						
	Y轴	M ☐ MD ☐	MP ☐ MU ☐	MR ☐ ML ☐	LP ☐ LU ☐	RP ☐ RU ☐	DL ☐ DR ☐						
	Z轴	M ☐ MD ☐	MP ☐ MU ☐	MR ☐ ML ☐	LP ☐ LU ☐	RP ☐ RU ☐	DL ☐ DR ☐						
	单轴 ☐ 多轴 ☐	M ☐ MD ☐	MP ☐ MU ☐	MR ☐ ML ☐	LP ☐ LU ☐	RP ☐ RU ☐	DL ☐ DR ☐						
伺服电机	品牌: _____						型号: _____						
传感器位置	内置 ☐ 外挂 ☐		类型: NPN ☐ PNP ☐				数目: _____个						
应用方式	取放物料 ☐		CCD检测 ☐		加工物件 ☐		涂胶 ☐ 搬运 ☐						
	定点检测 ☐		位移检测 ☐		锁螺丝 ☐		其他: _____						
应用环境	无尘环境 ☐		传动方式	皮带 ☐		螺杆 ☐		齿轮齿条 ☐					
	一般环境 ☐												
模组噪音要求	不要求 ☐		70~80db ☐		60~70db ☐		(分贝等级会影响单价)						
导轨厂牌	皮带 ☐				指定厂牌:		(导轨品牌会影响单价)						
设备设计模式	量产机:						开发机:						
因组合形式较多, 实际细节请和设计部门详细讨论。													
备注:													
客户名称:		客户确认签名:				日期:							

Linear Servo Actuator Demand Specification Survey

Customer name:							Email:						
Telephone:							Address:						
Contact person:							Title:						
Usage requirement	Stroke(mm):						maximum speed(mm/s):						
	Load (kg):						Repetition positioning accuracy(mm):						
	Residence time(s):						Acceleration and deceleration time(s):						
	Installation method:												
	Load and Cantilever Length (mm)												
A		B	C	A	B	C	A	C					
Combination form	A Series	A1 ☐		A2 ☐		A3 ☐		A4 ☐		A: _____			
	G Series	G1 ☐		G2 ☐		G3 ☐		G4 ☐		G: _____			
	F Series	F1 ☐		F2 ☐		F3 ☐		F4 ☐		F: _____			
	P Series	P1 ☐		P2 ☐		P3 ☐		P4 ☐		P: _____			
The Y-axis cantilever is too long. It is recommended to use auxiliary rails within the span of 0-500, auxiliary shafts for 500-800 and double drives for 800-1200.													
Motor connection mode	X axis	M ☐ MD ☐	MP ☐ MU ☐	MR ☐ ML ☐	LP ☐ LU ☐	RP ☐ RU ☐	DL ☐ DR ☐						
	Y axis	M ☐ MD ☐	MP ☐ MU ☐	MR ☐ ML ☐	LP ☐ LU ☐	RP ☐ RU ☐	DL ☐ DR ☐						
	Z axis	M ☐ MD ☐	MP ☐ MU ☐	MR ☐ ML ☐	LP ☐ LU ☐	RP ☐ RU ☐	DL ☐ DR ☐						
	single axis ☐ multi axis ☐	M ☐ MD ☐	MP ☐ MU ☐	MR ☐ ML ☐	LP ☐ LU ☐	RP ☐ RU ☐	DL ☐ DR ☐						
Servo motor	Brand: _____						Model: _____						
Sensor position	Inside ☐ Outside ☐		Type: NPN ☐ PNP ☐				Quantity: _____ Pcs						
Application mode	Take and place materials ☐		CCD detection ☐		Machining material ☐		Dispense ☐ Handling ☐						
	Fixed-point detection ☐		Displacement detection ☐		Lock screw ☐		Other: _____						
Application environment	Dust free environment ☐		Drive Method	Screw ☐		Belt ☐		Gear rack ☐					
	General environment ☐												
Module noise requirements	Does not require ☐		70~80db ☐		60~70db ☐		(decibel level will affect the unit price)						
Ball screw brand	Screw ☐				Designated brand:		(Ball screw brand will affect unit price)						
Equipment design mode	Mass production machine:						Development machine:						
As there are many combinations, please discuss the actual details with the design department in detail.													
Remarks:													
Customer name:				Signature:				Date:					

HNR
HCR
HNB
HCB
HNT
XYZ
参考资料 Reference data