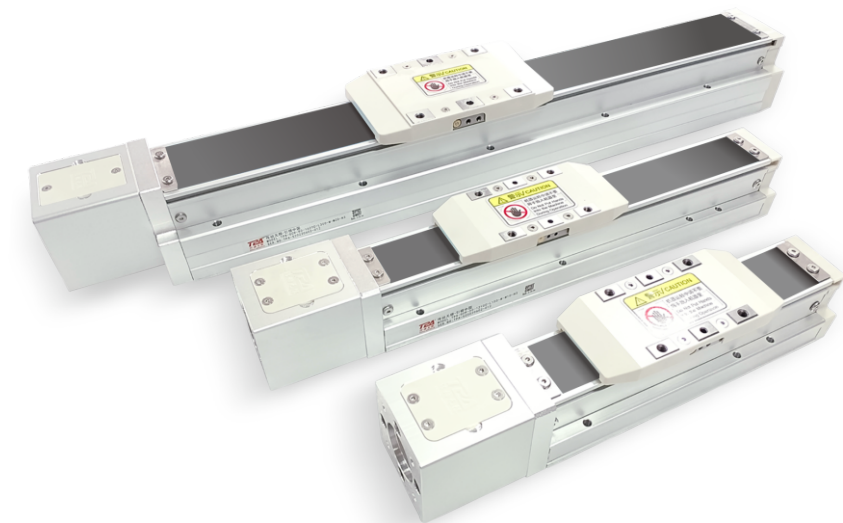


LINEAR MODULES WITH BUILD-IN U RAILS 内嵌式铝基模组



TPA
玖钧传动·智造兴邦

详细代理商资料查询TPA官网 Please check TPA official website for detailed agent information

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Address: Times building, No.57, Long Guan East rd, Longhua district, Shenzhen

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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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013

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TPA-GCR-50E-----017P	TPA-GCR-120E-----037P
TPA-GCR-65-----021P	TPA-GCR-150-----041P
TPA-GCR-80-----025P	TPA-GCR-170-----046P
TPA-GCR-80E-----029P	

■ 内嵌式皮带模组 Built-in Rail Belt Driven Type Linear Actuator

049

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097

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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



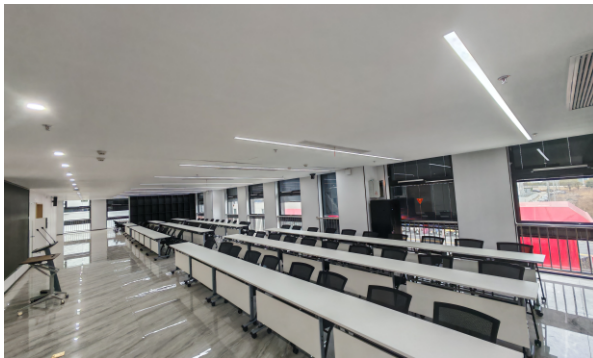
华东制造基地 East China Manufacturing Base



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

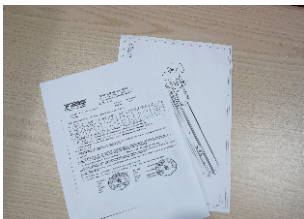


办公环境 Office environment

TPA模组生产流程
Production process



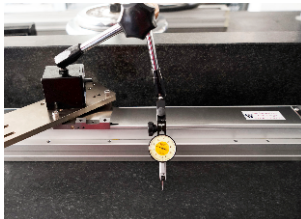
1. 按照客户需求设计定制图纸。
Design customized drawings according to customer requirements.



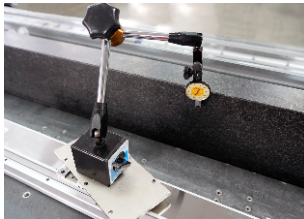
2. 订单确认, 客户回传合同及图纸。
Order confirmation, Customers return contracts and drawings.



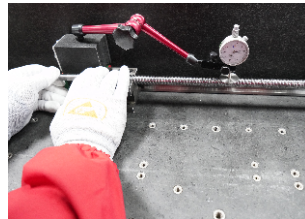
3. 按照图纸CNC生产加工。
CNC production and processing according to drawings



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.



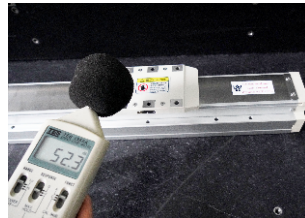
6. 检查螺杆全跳动。
Check the full run-out of the screw.



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

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	是/否	是/否	是/否
1.2 丝杆无油污、无划伤	是/否	是/否	是/否
1.3 丝杆无油污、无划伤	是/否	是/否	是/否
1.4 丝杆无油污、无划伤	是/否	是/否	是/否
1.5 丝杆无油污、无划伤	是/否	是/否	是/否
1.6 丝杆无油污、无划伤	是/否	是/否	是/否
1.7 丝杆无油污、无划伤	是/否	是/否	是/否
1.8 丝杆无油污、无划伤	是/否	是/否	是/否
1.9 丝杆无油污、无划伤	是/否	是/否	是/否
1.10 丝杆无油污、无划伤	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	100	100	100
2.3 丝杆螺距	2	2	2
2.4 丝杆螺距	2	2	2
2.5 丝杆螺距	2	2	2
2.6 丝杆螺距	2	2	2
2.7 丝杆螺距	2	2	2
2.8 丝杆螺距	2	2	2
2.9 丝杆螺距	2	2	2
2.10 丝杆螺距	2	2	2
3. 性能检查			
3.1 丝杆无卡顿	是/否	是/否	是/否
3.2 丝杆无卡顿	是/否	是/否	是/否
3.3 丝杆无卡顿	是/否	是/否	是/否
3.4 丝杆无卡顿	是/否	是/否	是/否
3.5 丝杆无卡顿	是/否	是/否	是/否
3.6 丝杆无卡顿	是/否	是/否	是/否
3.7 丝杆无卡顿	是/否	是/否	是/否
3.8 丝杆无卡顿	是/否	是/否	是/否
3.9 丝杆无卡顿	是/否	是/否	是/否
3.10 丝杆无卡顿	是/否	是/否	是/否
4. 噪音检查			
4.1 噪音≤60dB	是/否	是/否	是/否
4.2 噪音≤60dB	是/否	是/否	是/否
4.3 噪音≤60dB	是/否	是/否	是/否
4.4 噪音≤60dB	是/否	是/否	是/否
4.5 噪音≤60dB	是/否	是/否	是/否
4.6 噪音≤60dB	是/否	是/否	是/否
4.7 噪音≤60dB	是/否	是/否	是/否
4.8 噪音≤60dB	是/否	是/否	是/否
4.9 噪音≤60dB	是/否	是/否	是/否
4.10 噪音≤60dB	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.



内嵌式铝基模组内部结构图说明

Description of internal structure diagram of embedded aluminum-based linear actuator

滑座刚性强化 Carriage rigidity strengthening

本体与滑座一体成型,改善原始刚性较差问题。
It is integrally formed with the slide base to solve the problem of poor original rigidity.

滑座最优化设计,无需塞装螺母,使得滚珠螺杆副机构和U型轨道副结构整合在一个滑座基座上:

- ①减少了配合间隙带来的精度误差;
- ②自主发明结构;
- ③高刚性的整体化结构设计;
- ④整体滑座重量更轻;

Optimal design of the slide base, no need to plug nuts, makes the ball screw pair mechanism and U-shaped rail The track pair structure is integrated on a slide base:

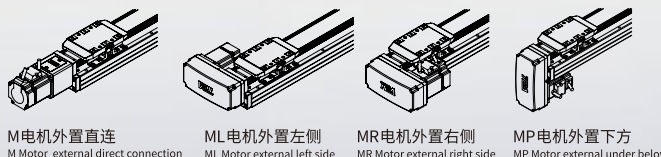
- ① reducing the precision error caused by fit clearance;
- ② Self-invented structure;
- ③ Integrated structural design with high rigidity;
- ④ The overall slider is lighter in weight;

体积更小 Smaller size

宽度缩小,让设备安装所需空间更小。
The width is reduced, so that the space required for equipment installation is smaller.

马达安装位置 Motor installation position

多方向马达安装位置可供选择,让机台设计更加方便。
Multiple motor installation position provides the flexibility for machine design.



马达品牌 Motor brand

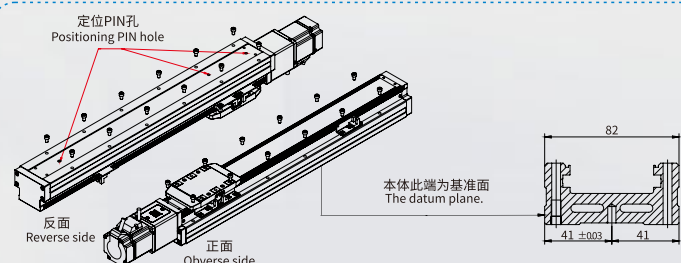
可搭配各品牌的伺服马达。Can be matched with servo motors of various brands.

马达品牌 Motor brand		
三菱 Mitsubishi	松下 Panasonic	台达 Delta

其它马达品牌规格,请联系TPA业务人员。
For other motor brand specifications, please contact TPA business personnel.

组装,省时、方便 Easy assemble

- ①不需拆卸钢带,即可由上往下固定或由下往上固定。
 - ②本体侧面增加安装基准面承靠。
 - ③本体底部有定位PIN孔。
- ① It can be fixed from top to bottom or from bottom to top without removing the steel belt.
② Install datum bearing on the side of the body.
③ The bottom of the body is provided with a positioning PIN hole.



特性 Characteristics

- ①可定制行程。
 - ②高刚性。
 - ③安装维护方便。
 - ④体积小、重量轻。
 - ⑤高精度。
 - ⑥密封防尘性能佳。
- ① Can customize the trip. ② High rigidity. ③ Easy installation and maintenance.
④ Small size and light weight. ⑤ High precision. ⑥ Good sealing and dustproof performance.

应用领域 Application field

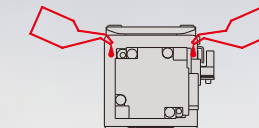
- ①FPD产业。
 - ②医疗自动化产业。
 - ③半导体。
 - ④精密测量仪器。
- ① FPD industry. ② Medical automation industry. ③ semiconductor. ④ Precision measuring instruments.

不易发尘 Reduce dust

特殊钢带结构设计,可减少发尘;可用于洁净室环境。
Special steel strip cover sealing design can prevent dirt and foreign objects from penetrating inside. Can be used in Clean Room environment.

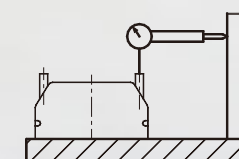
保养简单 Easy to maintain

全系列两侧皆可外部注油,不需拆盖。
External greasing design, easy maintenance without removing the cover.

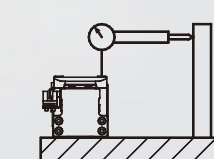


精度提升 Improve accuracy

因为采用铝本体结构,本体强度大幅增加,顺畅度更好。且钢材轨道嵌入铝本体后再研磨处理,因此行走的等高度及直线精度也提升到 $\pm 0.02\text{mm}$ 以下。
Because of the aluminum body structure, the body strength is greatly increased and the smoothness is better. And the steel track is embedded in the aluminum body, after grinding treatment, so the walking height and linear accuracy is also improved to $\pm 0.02\text{mm}$ or less.



普通开放式滑台直线度 $\pm 0.05\text{mm}$
*行走1000mm时。
The straightness of the common is $\pm 0.05\text{mm}$.
*Measure length is 1000mm.



GCR50直线度 $\pm 0.02\text{mm}$
*行走800mm时。
Straightness of GCR50 is $\pm 0.02\text{mm}$.
*Measure length is 800mm.



重复精度
Repeat Accuracy
±0.005 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
800mm

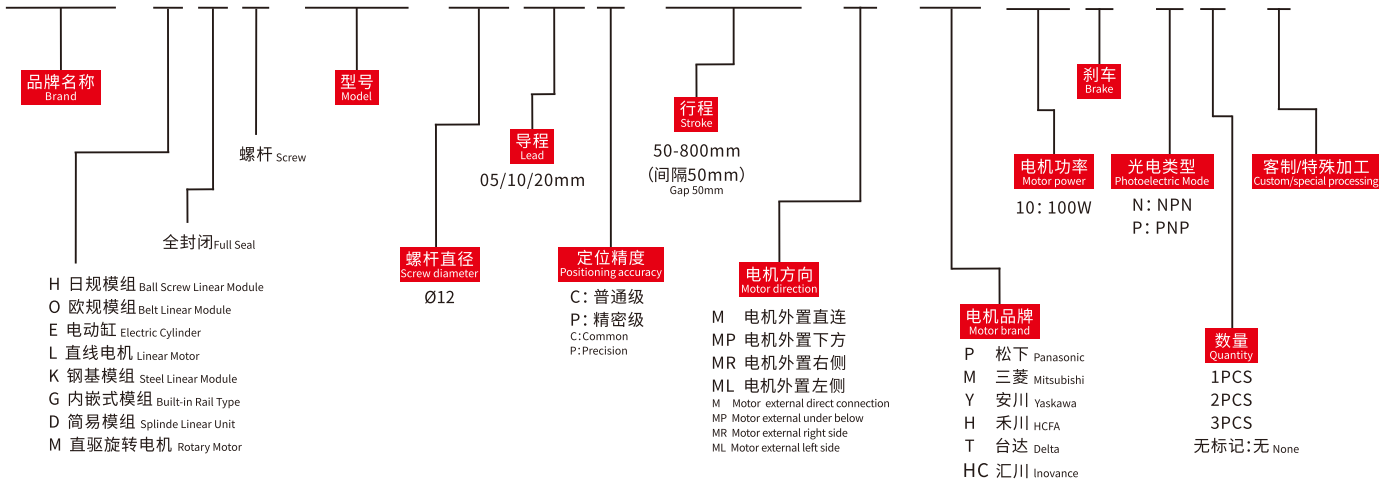
最高速度
Max Speed
1000mm/s

马达容量
Motor Output
100W

滚珠螺杆
Ball Screw
Ø12 mm

型号表达方式 Ordering method

TPA-GCR-40E-1210C-L800-M-HC10B-N3-F

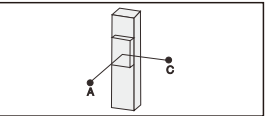
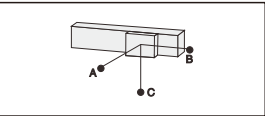
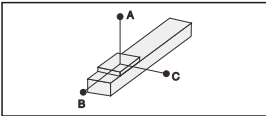


产品性能参数如下 Product performance parameters are as follows

规格 Spec	重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.005		
	螺杆导程 (mm) Ball screw lead (mm)	5	10	20
	最高速度 (mm/s) Maximum speed (mm/s)	250	500	1000
	最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	25	12
		垂直使用 (kg) Vertical(kg)	10	2
	定格推力 (N) Rated thrust (N)	341	170	85
部 品 Parts	标准行程 (mm) Stroke pitch (mm)	50~800mm/50 间隔 50 mm Pitch		
	AC伺服马达容量 (W) AC servo motor output (w)	100		
	滚珠螺杆外径 (mm) Ball screw Ø (mm)	C7Ø12		
	联轴器 (mm) Coupling(mm)	7X8		
原点感应器 Original Sense		外挂 Outside	TPA-N674-WR	

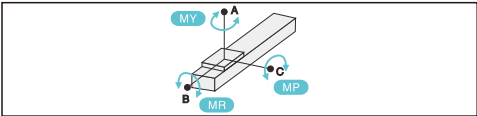
※1 行程超过550mm时,会产生螺杆偏摆,此时请将速度调降。
※1 When the stroke exceeds 550mm, the screw deflection will occur.
Please reduce the speed at this time.
※2 马达加减速设定0.2秒。
※2 Acceleration and deceleration value is set 0.2 second.

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	9.5kg	618	71	95	导程 5 Lead	9.5kg	95	71	618	导程 5 Lead	5kg	138	138	
	19kg	418	31	45		19kg	43	31	399		7kg	105	105	
	28kg	257	12	25		28kg	24	12	247		9.5kg	86	86	
导程 10 Lead	4.5kg	570	138	185	导程 10 Lead	4.5kg	171	138	570	导程 10 Lead	0.9kg	760	760	
	9.5kg	335	67	85		9.5kg	81	65	335		2.8kg	247	247	
	14kg	238	40	52		14kg	50	40	226		4kg	147	147	
导程 20 Lead	4.5kg	304	114	130	导程 20 Lead	4.5kg	124	114	304	导程 20 Lead	0.8kg	570	570	
	7.5kg	209	67	80		7.5kg	71	67	209		1.5kg	285	285	
	9.5kg	166	52	60		9.5kg	57	52	162		2kg	238	238	

静态容许负载惯量 Static loading moment

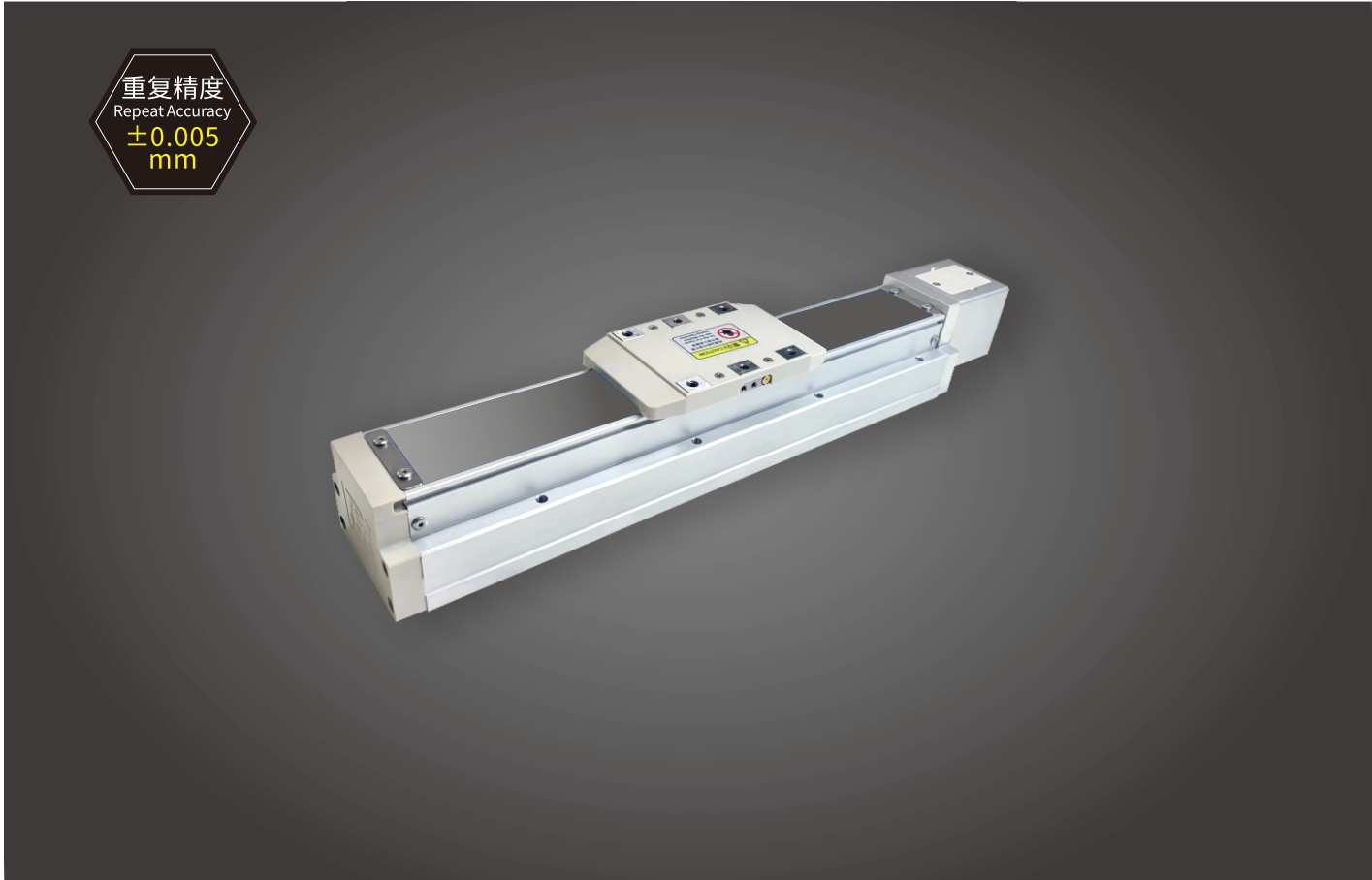


(单位Unit:N.m)	
MY	79
MP	79
MR	116

*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)	100	220	HG-KR13	MR-J4-10A
		有刹车(垂直式样) With brakes (vertical type)	100	220	HG-KR13B	MR-J4-10A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	100	220	MHMD012G1U	MADHT1505
		有刹车(垂直式样) With brakes (vertical type)	100	220	MHMD012G1V	MADHT1505
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	100	220	ECMA-C20401ES	ASD-B20121-B
		有刹车(垂直式样) With brakes (vertical type)	100	220	ECMA-C20401FS	ASD-B20121-B



重复精度
Repeat Accuracy
±0.005mm

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

800mm

最高速度
Max Speed

1000mm/s

马达容量
Motor Output

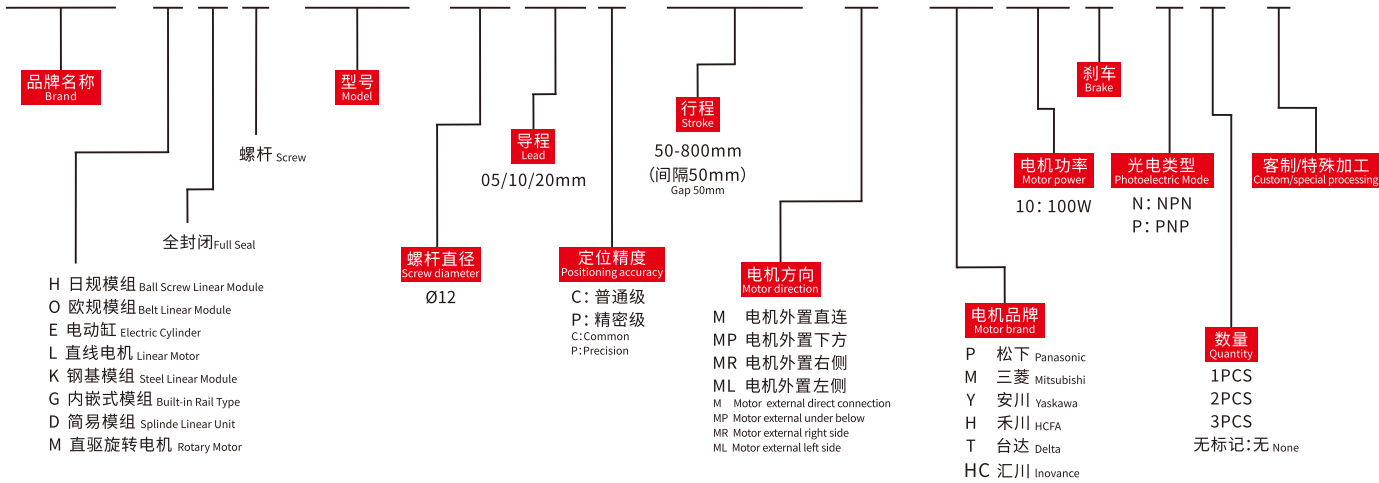
100W

滚珠螺杆
Ball Screw

Ø12mm

型号表达方式 Ordering method

TPA-GCR-50E-1210C-L800-M-HC10B-N3-F



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

规格 Spec	重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.005		
	螺杆导程 (mm) Ball screw lead (mm)	5	10	20
	最高速度 (mm/s) Maximum speed (mm/s)	250	500	1000
	最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	30	25
		垂直使用 (kg) Vertical (kg)	12	8
	定格推力 (N) Rated thrust (N)	341	170	85
部 品 Parts	标准行程 (mm) Stroke pitch (mm)	50~800mm/50 间隔 50 mm Pitch		
	AC伺服马达容量 (W) AC servo motor output (w)	100		
	滚珠螺杆外径 (mm) Ball screw Ø (mm)	C7Ø12		
	联轴器 (mm) Coupling (mm)	7X8		
原 点 感 应 器 Original Sense	外挂 Outside	TPA-N674-WR		

※1 行程超过600mm时,会产生螺杆偏摆,此时请将速度调降。
※1 When the stroke exceeds 600mm, the screw deflection will occur. Please reduce the speed at this time.
※2 马达加减速设定0.2秒。
※2 Acceleration and deceleration value is set 0.2 second.

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

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

垂直安装 Vertical installation		A	C
导程 5 Lead	6kg	145	145
	8kg	110	110
	10kg	90	90
导程 10 Lead	1kg	800	800
	3kg	260	260
	5kg	155	155
导程 20 Lead	1kg	600	600
	2kg	300	300
	2.5kg	250	250

静态容许负载惯量 Static loading moment

(单位Unit:N.m)	
MY	103
MP	103
MR	144

*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)	100	220	HG-KR13	MR-J4-10A
		有刹车(垂直式样) With brakes (vertical type)	100	220	HG-KR13B	MR-J4-10A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	100	220	MHMD012G1U	MADHT1505
		有刹车(垂直式样) With brakes (vertical type)	100	220	MHMD012G1V	MADHT1505
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	100	220	ECMA-C20401ES	ASD-B20121-B
		有刹车(垂直式样) With brakes (vertical type)	100	220	ECMA-C20401FS	ASD-B20121-B

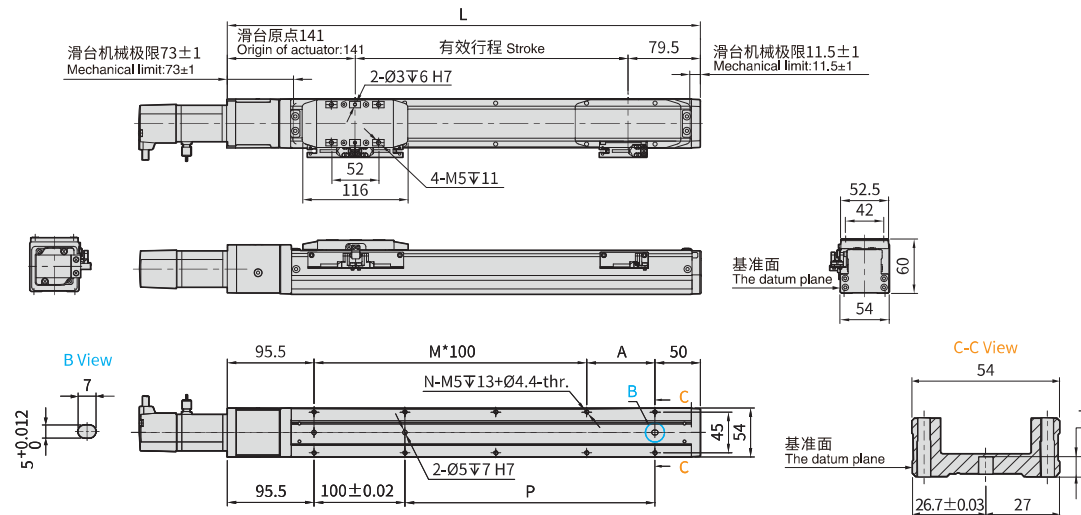


电机外置直连/电机外置下方

Motor external direct connection/Motor external under below

M 电机外置直连 Motor external direct connection

单位:Unit: mm



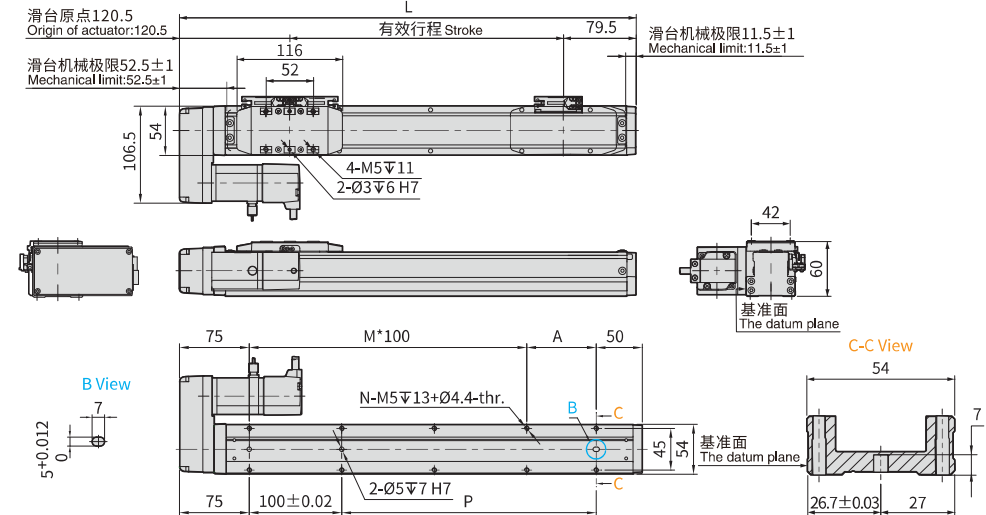
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.63	1.79	1.95	2.11	2.27	2.43	2.59	2.75	2.91	3.07	3.23	3.39	3.55	3.71	3.87	4.03

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

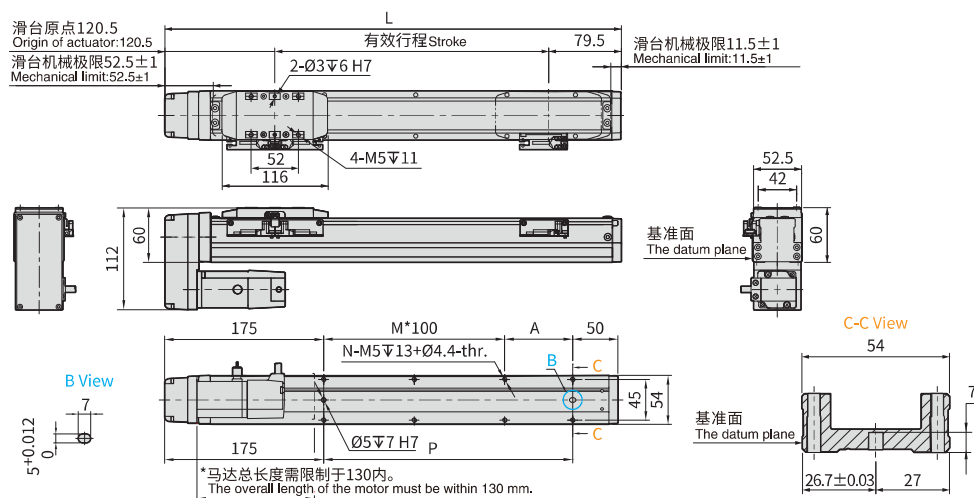
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.68	1.8	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.6	3.74	4.12

MP 电机外置下方 Motor external under below

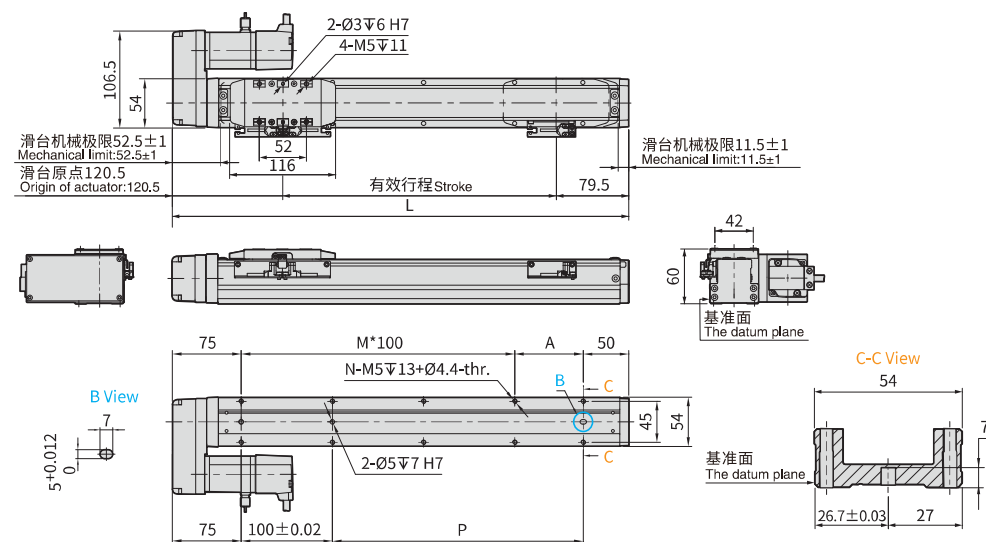
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.68	1.8	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.6	3.74	4.12

MR 电机外置右侧 Motor external right side

单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	1.68	1.8	2.03	2.14	2.42	2.53	2.58	2.78	2.89	2.98	3.18	3.31	3.47	3.6	3.74	4.12



重复精度
Repeat Accuracy
 ± 0.005
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 1000mm

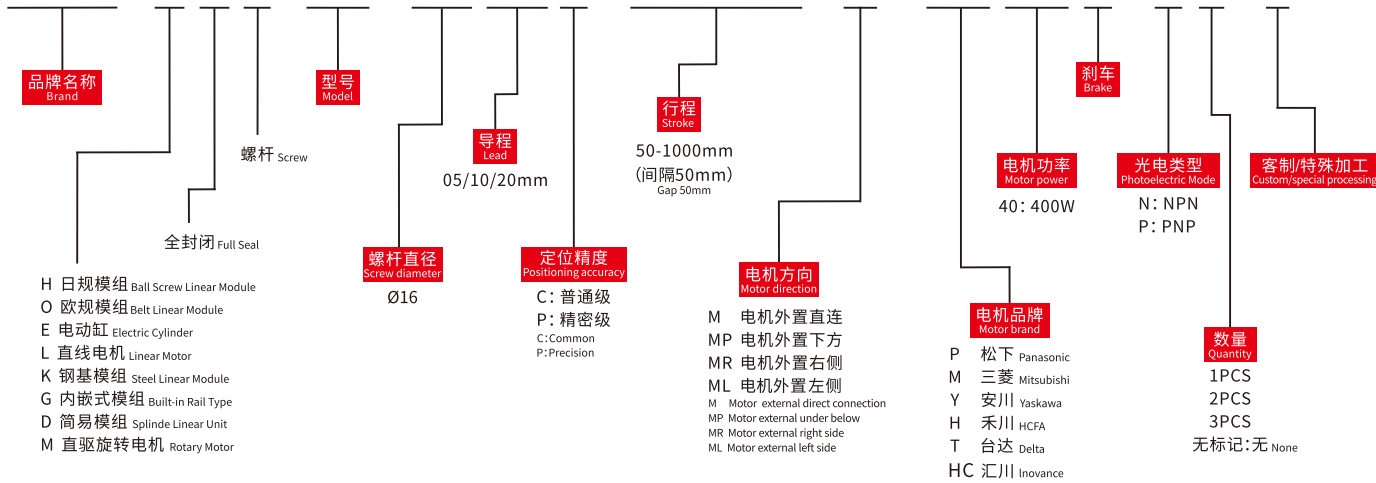
最高速度
Max Speed 1000mm/s

马达容量
Motor Output 400W

滚珠螺杆
Ball Screw $\varnothing 16$ mm

型号表达方式 Ordering method

TPA-GCR-65-1610C-L1000-M-HC40B-N3-F

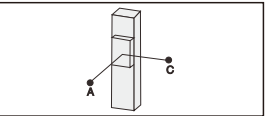
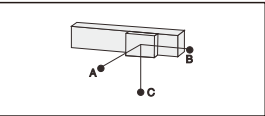
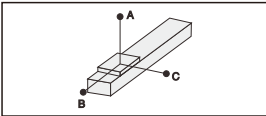


产品性能参数如下 Product performance parameters are as follows

规格 Spec	重复定位精度 (mm) Repeated positioning accuracy (mm)	± 0.005		
	螺杆导程 (mm) Ball screw lead (mm)	5	10	20
	最高速度 (mm/s) Maximum speed (mm/s)	250	500	1000
	最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	40	30
		垂直使用 (kg) Vertical (kg)	15	10
	定格推力 (N) Rated thrust (N)	510	255	127
部 品 Parts	标准行程 (mm) Stroke pitch (mm)	50~1000mm/50 间隔 50 mm Pitch		
	AC伺服马达容量 (W) AC servo motor output (w)	400		
	滚珠螺杆外径 (mm) Ball screw $\varnothing$ (mm)	C7 $\varnothing 16$		
	联轴器 (mm) Coupling (mm)	10X14 ^(注1)		
原点感应器 Original Sense		外挂 Outside	TPA-N674-WR	

※1 行程超过750mm时,会产生螺杆偏摆,此时请将速度调降。
※1 When the stroke exceeds 750mm, the screw deflection will occur. Please reduce the speed at this time.
※2 马达加减速设定0.2秒。
※2 Acceleration and deceleration value is set 0.2 second.
*注1:使用Panasonic200W马达时,马达轴心为 $\varnothing 11$;其他品牌,马达轴心为 $\varnothing 14$ 。
*注1: Motor(200W) Shaft Diameter: Panasonic;11mm;Other:14mm.

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	8kg 1440	394	701
	13kg 720	192	100
	25kg 565	96	64
导程 10 Lead	5kg 1210	261	599
	10kg 640	136	179
	20kg 426	82	92
导程 20 Lead	3kg 660	192	208
	6kg 396	116	125
	12kg 238	70	75

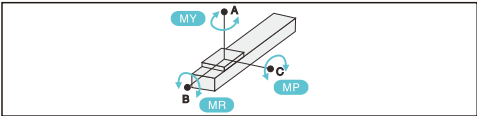
(单位Unit:mm)

侧面安装 Side mounting	A	B	C
导程 5 Lead	8kg 370	394	1440
	13kg 100	192	720
	25kg 64	96	565
导程 10 Lead	5kg 299	261	1210
	10kg 179	136	640
	20kg 92	82	426
导程 20 Lead	3kg 208	192	660
	6kg 125	116	396
	12kg 75	70	238

(单位Unit:mm)

垂直安装 Vertical installation	A	C
导程 5 Lead	1kg 1114	1114
	3kg 378	378
	5kg 235	235
导程 10 Lead	1kg 1114	1114
	3kg 378	378
	5kg 235	235
导程 20 Lead	3kg 573	573
	-	-
	-	-

静态容许负载惯量 Static loading moment



(单位Unit:N.m)

MY	211
MP	211
MR	372

*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

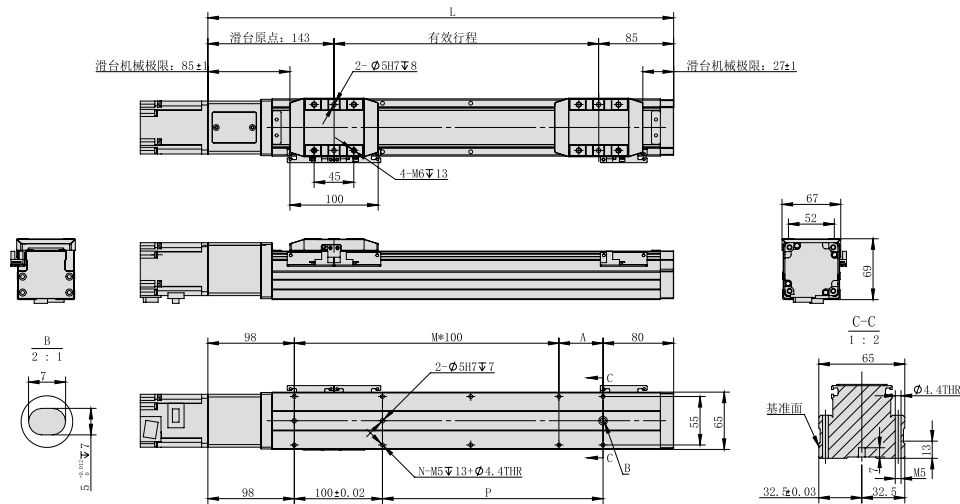
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	400	220	HG-KR43	MR-J4-40A
		有刹车(垂直式样) With brakes (vertical type)	400	220	HG-KR43B	MR-J4-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMD042G1U	MADHT2510
		有刹车(垂直式样) With brakes (vertical type)	400	220	MHMD042G1V	MADHT2510
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECMA-C20604ES	ASD-B20421-B
		有刹车(垂直式样) With brakes (vertical type)	400	220	ECMA-C20604FS	ASD-B20421-B



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

M 电机外置直连 Motor external direct connection

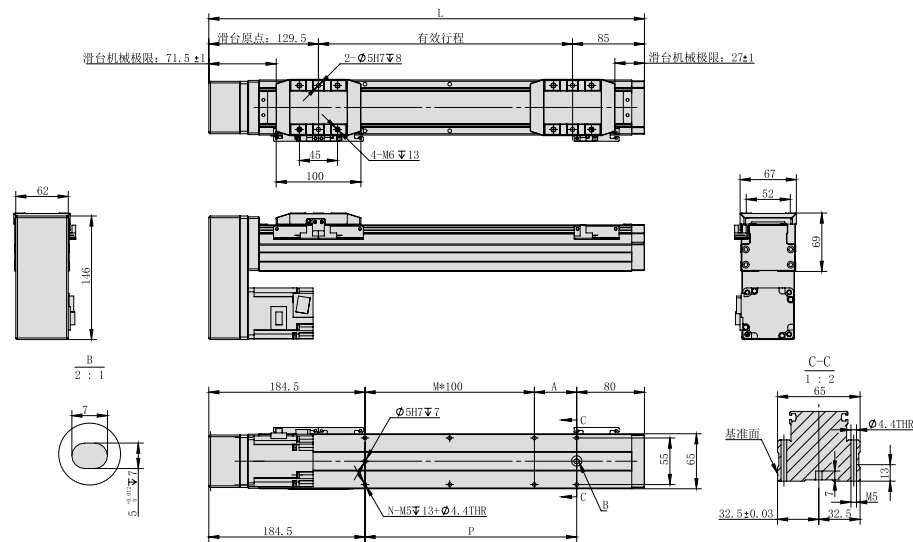
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	278	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24
P	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
KG	2.77	3.04	3.31	3.58	3.85	4.12	4.39	4.66	4.93	5.2	5.47	5.76	6.01	6.28	6.55	6.82	7.09	7.37	7.63	7.9

MP 电机外置下方 Motor external under below

单位:Unit: mm

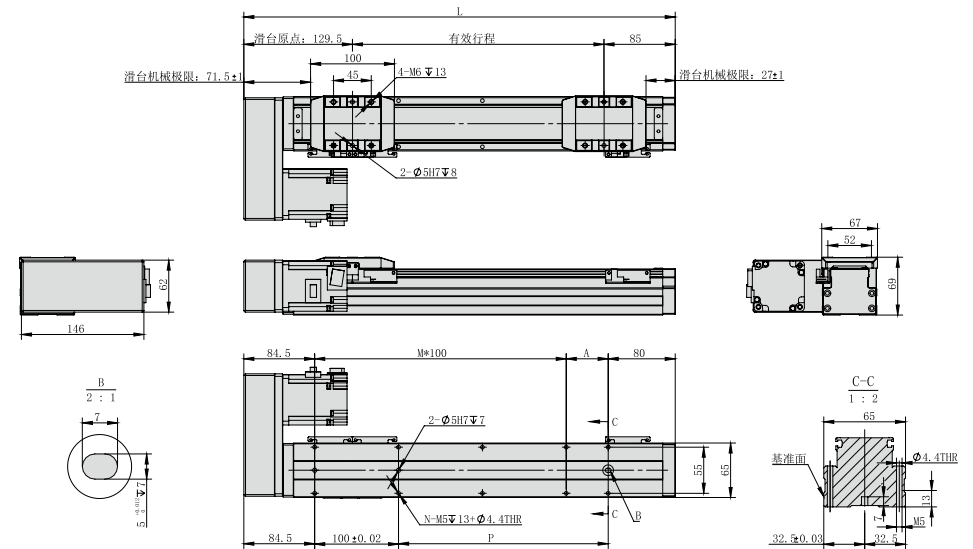


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	264.5	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5
A	0	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	0	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9
N	2	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22
P	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
KG	2.84	3.11	3.38	3.65	3.92	4.19	4.46	4.73	5.00	5.27	5.54	5.81	6.08	6.35	6.62	6.89	7.16	7.43	7.70	7.97

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

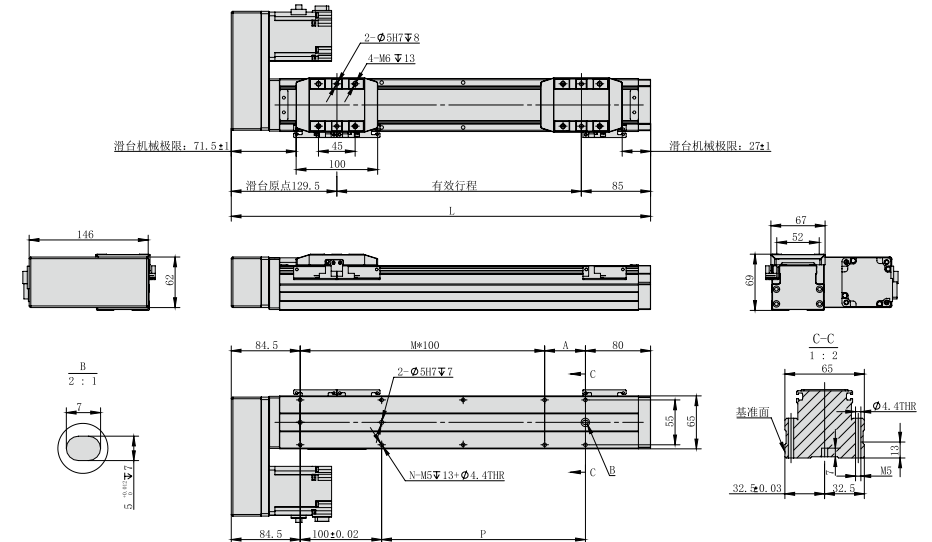
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	264.5	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24
P	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
KG	2.84	3.11	3.38	3.65	3.92	4.19	4.46	4.73	5.00	5.27	5.54	5.81	6.08	6.35	6.62	6.89	7.16	7.43	7.70	7.97

MR 电机外置右侧 Motor external right side

单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	264.5	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24
P	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
KG	2.84	3.11	3.38	3.65	3.92	4.19	4.46	4.73	5.00	5.27	5.54	5.81	6.08	6.35	6.62	6.89	7.16	7.43	7.70	7.97



重复精度
Repeat Accuracy
 ± 0.005
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

1100mm

最高速度
Max Speed

1600mm/s

马达容量
Motor Output

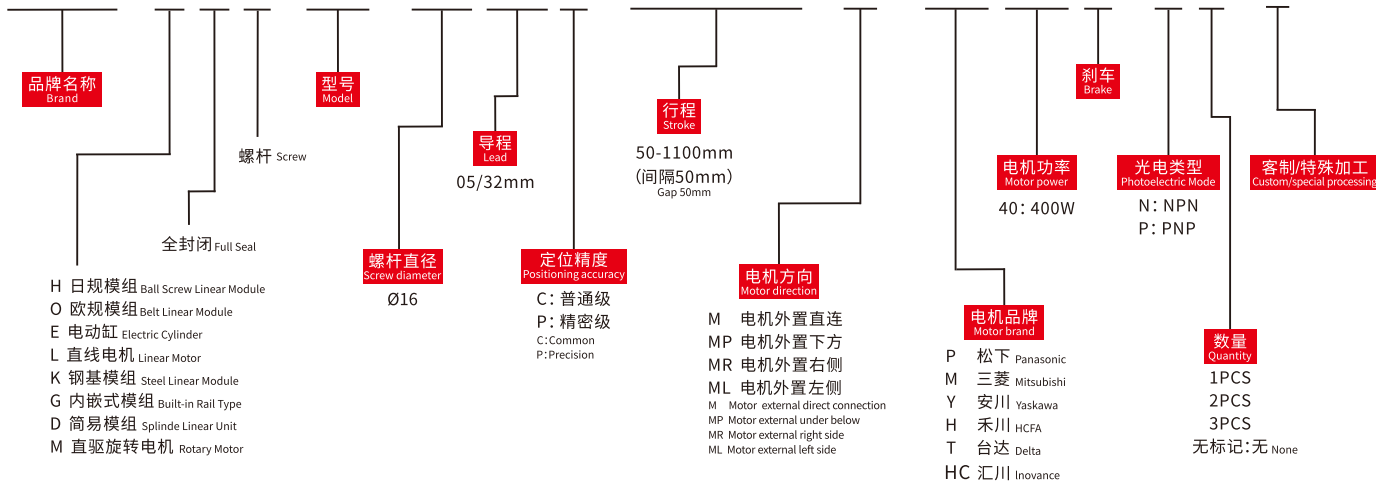
400W

滚珠螺杆
Ball Screw

Ø16mm

型号表达方式 Ordering method

TPA-GCR-80-1605C-L1100-M-HC40B-N3-F



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

规格 Spec	重复定位精度 (mm)	Repeated positioning accuracy (mm)	± 0.005	
	螺杆导程 (mm)	Ball screw lead (mm)	5	32
	最高速度 (mm/s)	Maximum speed (mm/s)	250	1600
	最大可搬重量 Maximum Payload	水平使用 (kg)	Horizontal (kg)	50
		垂直使用 (kg)	Vertical (kg)	18
	定格推力 (N)	Rated thrust (N)	683	109
部品 Parts	标准行程 (mm)	Stroke pitch (mm)	50~1100mm/50 间隔 50 mm Pitch	
	AC伺服马达容量 (W)	AC servo motor output (w)	400	
	滚珠螺杆外径 (mm)	Ball screw Ø (mm)	C7Ø16	
	联轴器 (mm)	Coupling (mm)	10X14	
原点感应器 Original Sense		外挂 Outside	TPA-N674-WR	

※1 行程超过750mm时,会产生螺杆偏摆,此时请将速度调降。

※1 When the stroke exceeds 750mm, the screw deflection will occur. Please reduce the speed at this time.

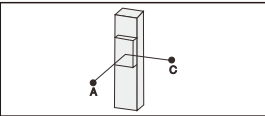
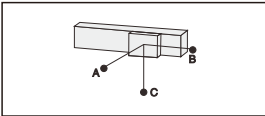
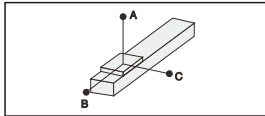
※2 马达加减速设定0.2秒。

※2 Acceleration and deceleration value is set 0.2 second.

*注1: 使用Panasonic200W马达时,马达轴心为Ø11;其他品牌,马达轴心为Ø14。

*注1: Motor(200W) Shaft Diameter: Panasonic;11mm;Other:14mm.

容许负载力矩表 N.m Allowable overhang

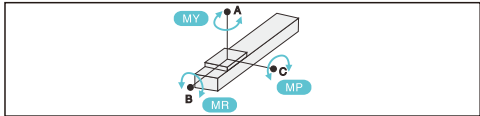


(单位Unit:mm)				
水平安装 Horizontal installation	A	B	C	
导程 5 Lead	20kg	1560	153	237
	35kg	890	81	126
	50kg	550	53	82
导程 32 Lead	3kg	861	467	521
	5kg	754	325	398
	8kg	613	200	265

(单位Unit:mm)				
侧面安装 Side mounting	A	B	C	
导程 5 Lead	20kg	214	153	1435
	35kg	113	81	845
	50kg	74	53	506
导程 32 Lead	3kg	496	485	375
	5kg	336	315	149
	8kg	251	200	465

(单位Unit:mm)			
垂直安装 Vertical installation	A	C	
导程 5 Lead	10kg	331	331
	15kg	220	220
	-	-	-
导程 32 Lead	2kg	614	614
	-	-	-
	-	-	-

静态容许负载惯量 Static loading moment



MY	318
MP	318
MR	626

*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-KR43	MR-J4-40A
		有刹车(垂直式样) With brakes (vertical type)	400	220	HG-KR43B	MR-J4-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMD042G1U	MADHT2510
		有刹车(垂直式样) With brakes (vertical type)	400	220	MHMD042G1V	MADHT2510
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECMA-C20604ES	ASD-B20421-B
		有刹车(垂直式样) With brakes (vertical type)	400	220	ECMA-C20604FS	ASD-B20421-B

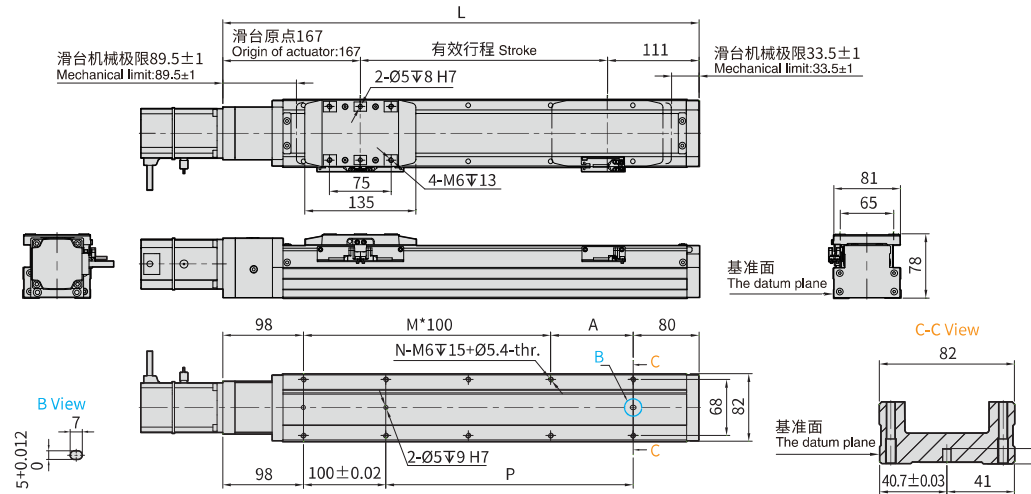


电机外置直连/电机外置下方

Motor external direct connection/Motor external below

M 电机外置直连 Motor external direct connection

单位:Unit: mm



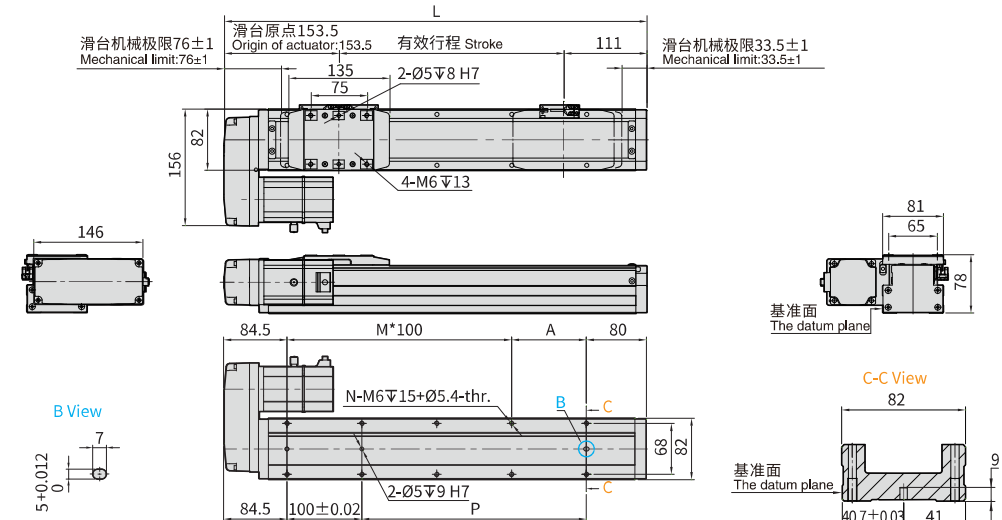
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	3.91	4.29	4.7	5	5.35	5.68	6.05	6.35	6.64	6.97	7.41	7.71	8.12	8.41	8.65	8.96	9.37	9.62	10.01	10.28	10.7	11.12

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

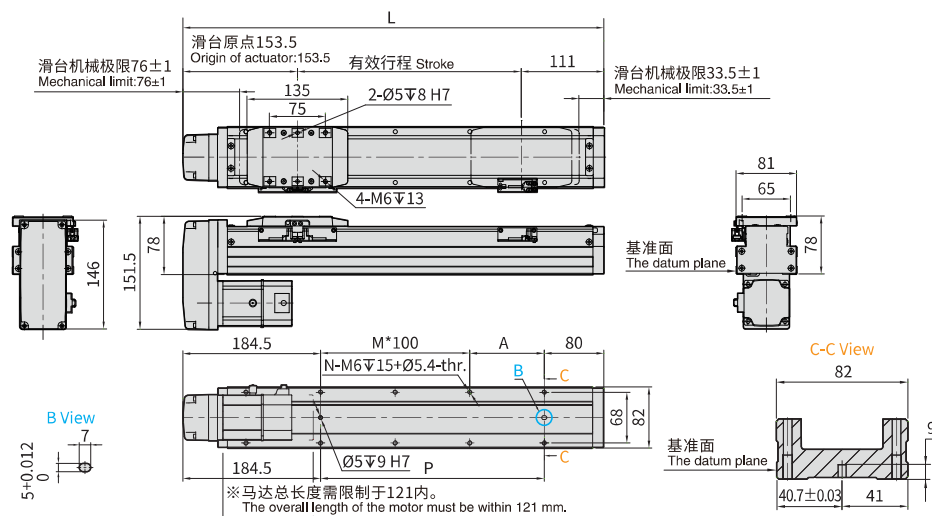
单位:Unit: mm



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

MP 电机外置下方 Motor external under below

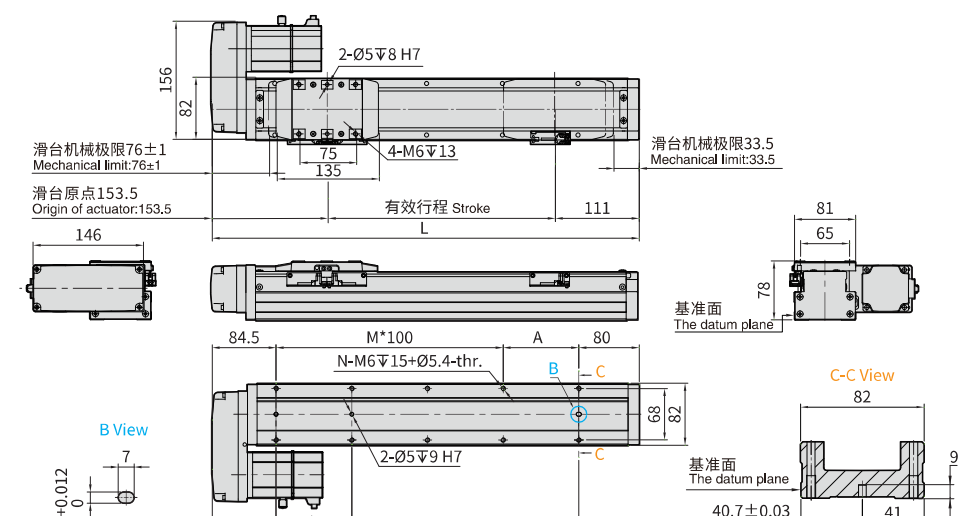
单位:Unit: mm



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

MR 电机外置右侧 Motor external right side

单位:Unit: mm



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



重复精度
Repeat Accuracy
 ± 0.005
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 1100mm

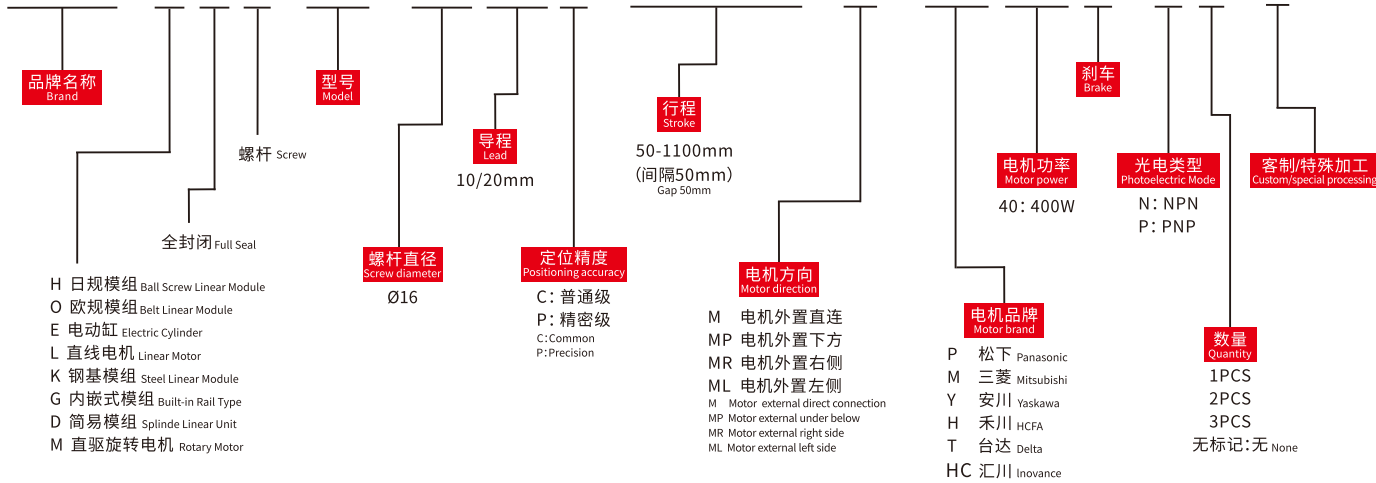
最高速度
Max Speed 1600mm/s

马达容量
Motor Output 400W

滚珠螺杆
Ball Screw $\varnothing 16$ mm

型号表达方式 Ordering method

TPA-GCR-80E-1610C-L1100-M-HC40B-N3-F



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

规格 Spec	重复定位精度 (mm) Repeated positioning accuracy (mm)	± 0.005	
	螺杆导程 (mm) Ball screw lead (mm)	10	20
	最高速度 (mm/s) ^{※2} Maximum speed (mm/s)	500	1000
	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)	341	174
部品 Parts	标准行程 (mm) ^{※1} Stroke pitch (mm)	50~1100mm/50 间隔 50 mm Pitch	
	AC伺服马达容量 (W) AC servo motor output (w)	400	
	滚珠螺杆外径 (mm) Ball screw $\varnothing$ (mm)	C7 $\varnothing 16$	
	联轴器 (mm) Coupling (mm)	10X14	
原点感应器 Original Sense		外挂 Outside	TPA-N674-WR

※1 行程超过750mm时,会产生螺杆偏摆,此时请将速度调降。
※1 When the stroke exceeds 750mm, the screw deflection will occur. Please reduce the speed at this time.
※2 马达加减速设定0.2秒。
※2 Acceleration and deceleration value is set 0.2 second.
*注1:使用Panasonic200W马达时,马达轴心为 $\varnothing 11$;其他品牌,马达轴心为 $\varnothing 14$ 。
*注1: Motor(200W) Shaft Diameter: Panasonic;11mm;Other:14mm.

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	7kg	1211	200	288
	14kg	587	95	137
	21kg	379	60	87
导程 20 Lead	4kg	849	282	345
	6kg	560	185	226
	13kg	414	136	166

(单位Unit:mm)

侧面安装 Side mounting		A	B	C
导程 10 Lead	7kg	217	200	980
	14kg	123	95	560
	21kg	52	60	367
导程 20 Lead	4kg	311	282	532
	6kg	204	185	194
	13kg	150	136	381

(单位Unit:mm)

垂直安装 Vertical installation		A	C
导程 10 Lead	4kg	412	412
	6kg	258	258
	—	—	—
导程 20 Lead	2kg	648	655
	—	—	—
	—	—	—

静态容许负载惯量 Static loading moment

(单位Unit:N.m)	
MY	318
MP	318
MR	626

*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-KR43	MR-J4-40A
		有刹车(垂直式样) With brakes (vertical type)	400	220	HG-KR43B	MR-J4-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMD042G1U	MADHT2510
		有刹车(垂直式样) With brakes (vertical type)	400	220	MHMD042G1V	MADHT2510
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECMA-C20604ES	ASD-B20421-B
		有刹车(垂直式样) With brakes (vertical type)	400	220	ECMA-C20604FS	ASD-B20421-B

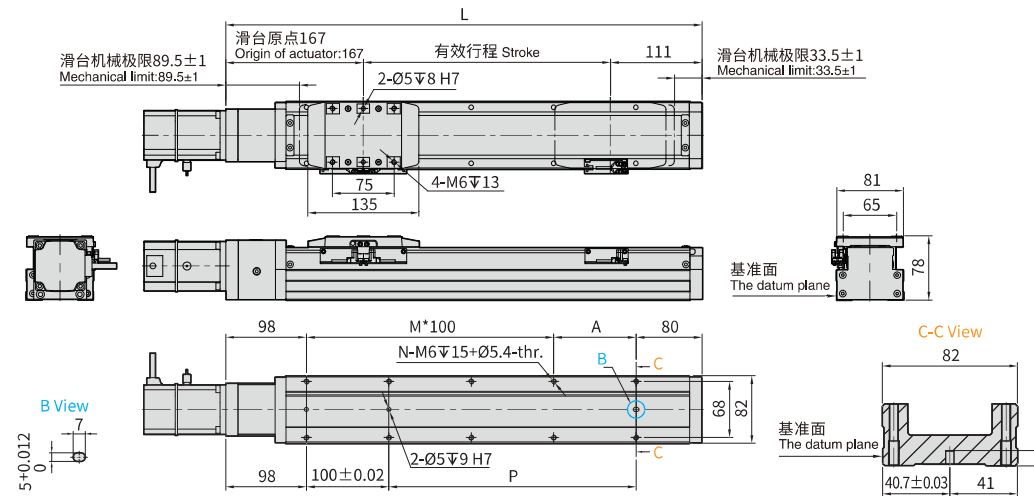


电机外置直连/电机外置下方

Motor external direct connection/Motor external below

M 电机外置直连 Motor external direct connection

单位:Unit: mm



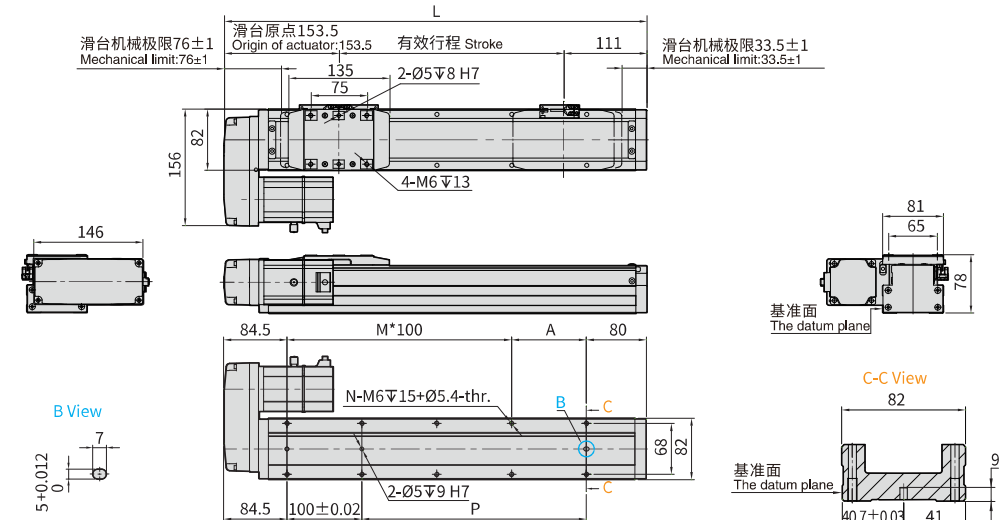
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
KG	3.91	4.29	4.7	5	5.35	5.68	6.05	6.35	6.64	6.97	7.41	7.71	8.12	8.41	8.65	8.96	9.37	9.62	10.01	10.28	10.7	11.12

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

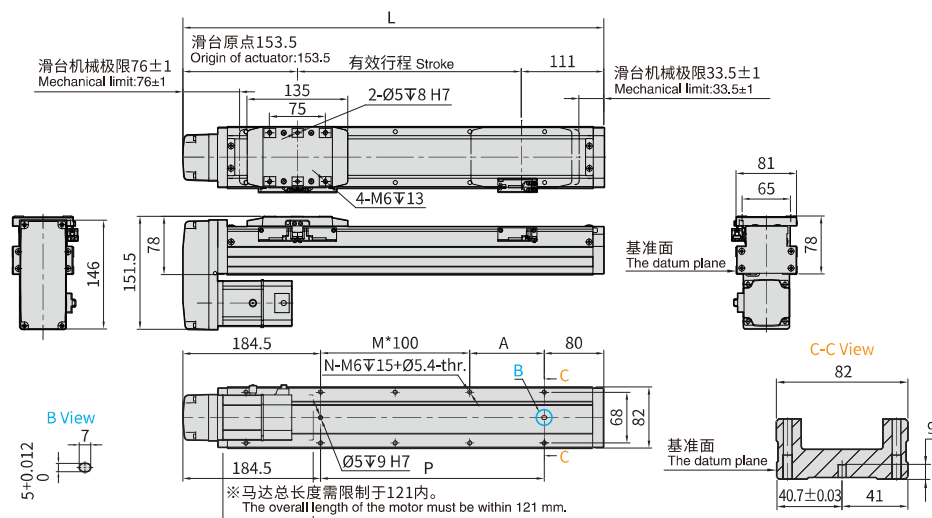
单位:Unit: mm



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

MP 电机外置下方 Motor external under below

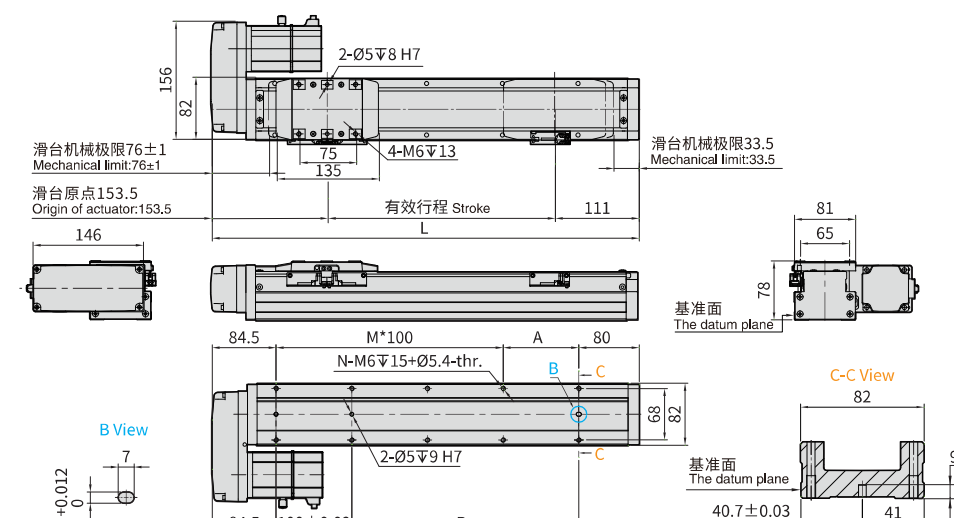
单位:Unit: mm



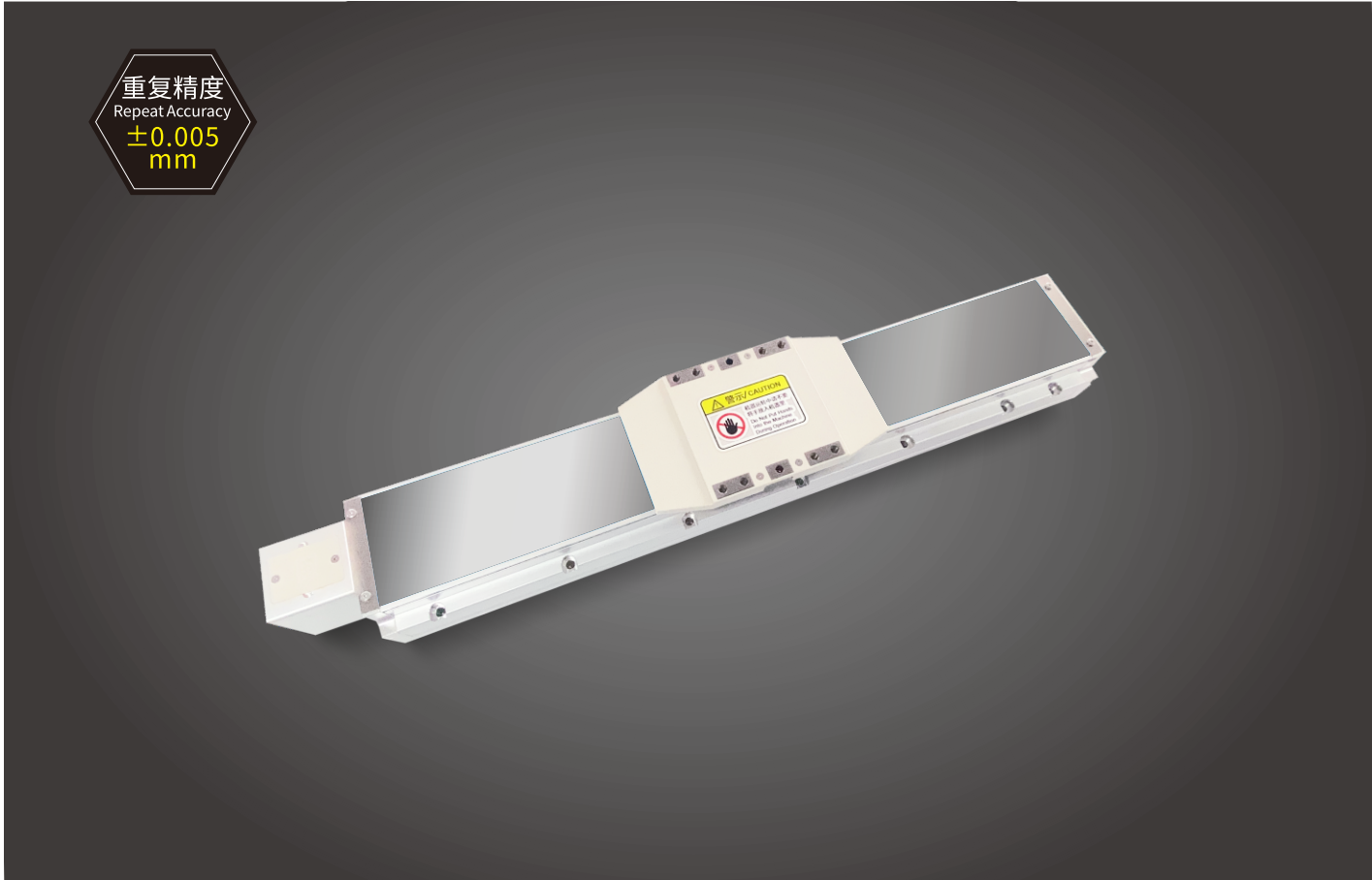
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100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

MR 电机外置右侧 Motor external right side

单位:Unit: mm



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



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 1250mm

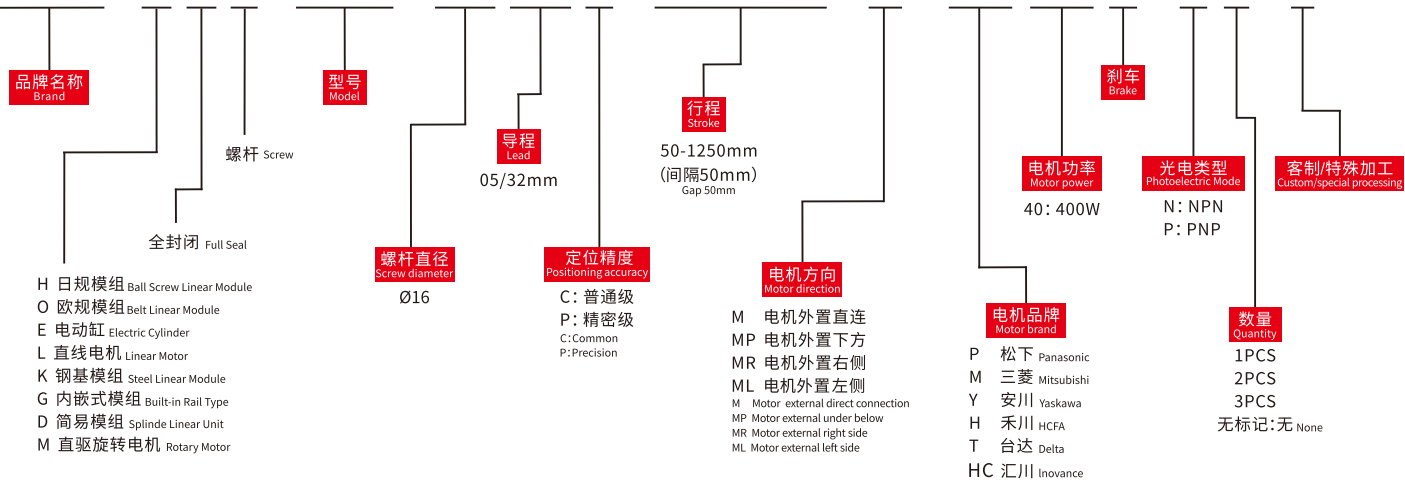
最高速度
Max Speed 1600mm/s

马达容量
Motor Output 400W

滚珠螺杆
Ball Screw Ø16mm

型号表达方式 Ordering method

TPA-GCR-120-1605C-L1250-M-HC40B-N3-F

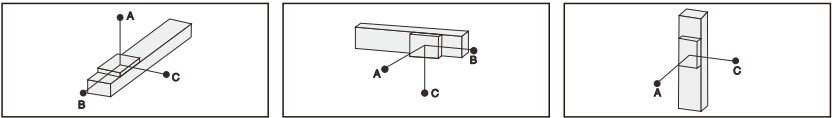


产品性能参数如下 Product performance parameters are as follows

规格 Spec	重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.005	
	螺杆导程 (mm) Ball screw lead (mm)	5	32
	最高速度 (mm/s) Maximum speed (mm/s)	250	1600
	最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	110
		垂直使用 (kg) Vertical(kg)	33
部 品 Parts	定格推力 (N) Rated thrust (N)	1388	218
	标准行程 (mm) Stroke pitch (mm)	50~1250mm/50 间隔 50 mm Pitch	
	AC伺服马达容量 (W) AC servo motor output (w)	400	
	滚珠螺杆外径 (mm) Ball screw Ø (mm)	C7Ø16	
	联轴器 (mm) Coupling(mm)	10X14	
原 点 感 应 器 Original Sense	外挂 Outside	TPA-N674-WR	

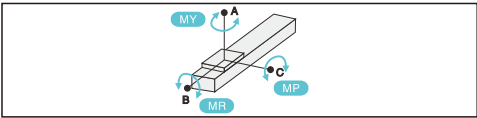
※1 行程超过750mm时,会产生螺杆偏摆,此时请将速度调降。
※1 When the stroke exceeds 750mm, the screw deflection will occur.
Please reduce the speed at this time.
※2 马达加减速设定0.2秒。
※2 Acceleration and deceleration value is set 0.2 second.

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	C	
5	60kg	2850	250	340	55kg	280	280	3300	15kg	1200	1200
	80kg	2100	180	250	75kg	200	195	2400	22kg	820	820
	110kg	1500	120	170	110kg	130	125	1550	33kg	550	550
32	15kg	1100	570	550	15kg	440	570	1050	5kg	1600	1600
	25kg	620	330	320	30kg	210	270	520	8kg	1000	1000
	30kg	520	270	260	-	-	-	-	-	-	-

静态容许负载惯量 Static loading moment



(单位Unit:N.m)	
MY	606
MP	606
MR	1168

*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-KR43	MR-J4-40A
		有刹车(垂直式样) With brakes (vertical type)	400	220	HG-KR43B	MR-J4-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMD042G1U	MADHT2510
		有刹车(垂直式样) With brakes (vertical type)	400	220	MHMD042G1V	MADHT2510
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECMA-C20604ES	ASD-B20421-B
		有刹车(垂直式样) With brakes (vertical type)	400	220	ECMA-C20604FS	ASD-B20421-B

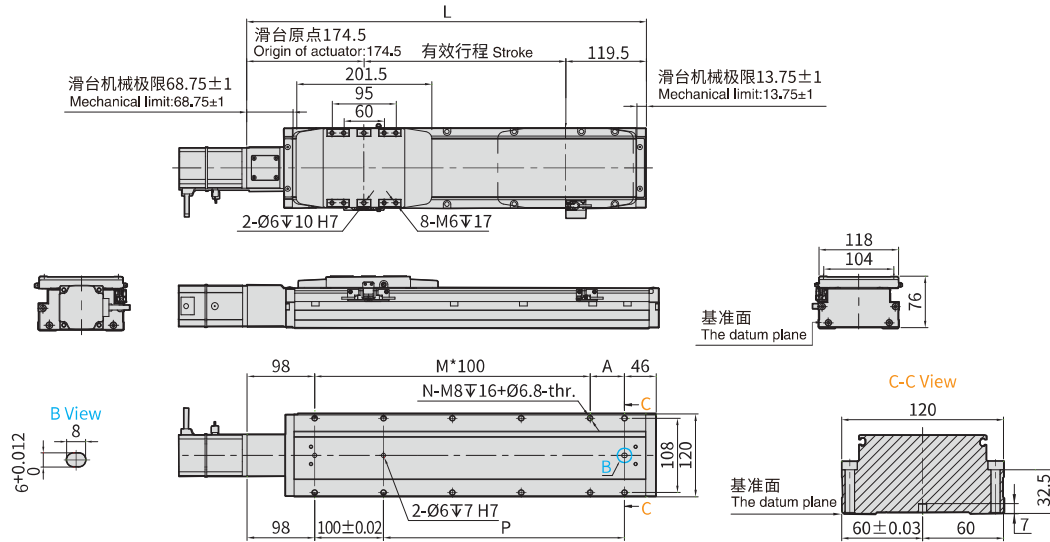


电机外置直连/电机外置下方

Motor external direct connection/Motor external under below

M 电机外置直连 Motor external direct connection

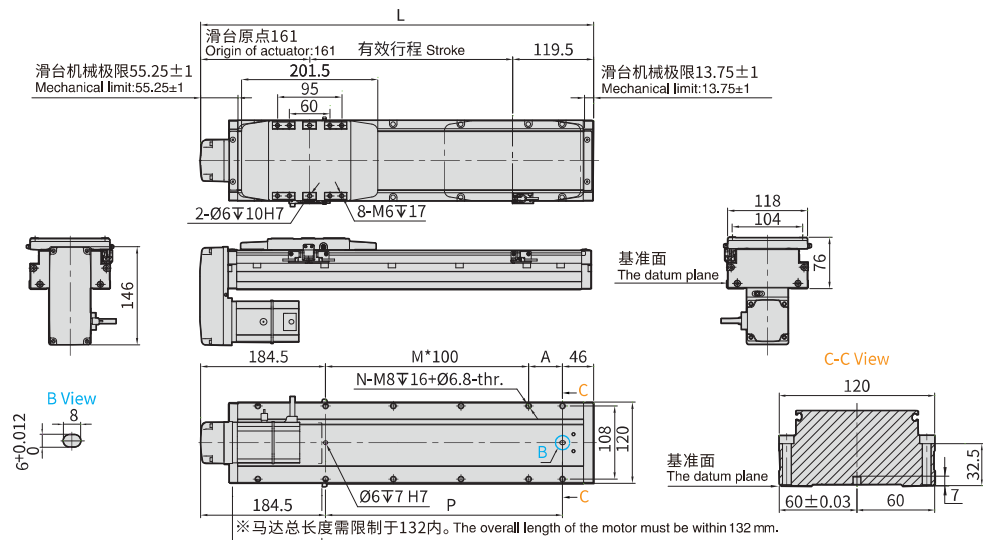
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	344	394	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
KG	5.05	5.40	5.75	6.10	6.45	6.80	7.15	7.50	7.85	8.20	8.55	8.90	9.25	9.60	9.95	10.30	10.65	11.00	11.35	11.70	12.05	12.40	12.75	13.10	13.45

MP 电机外置下方 Motor external under below

单位:Unit: mm



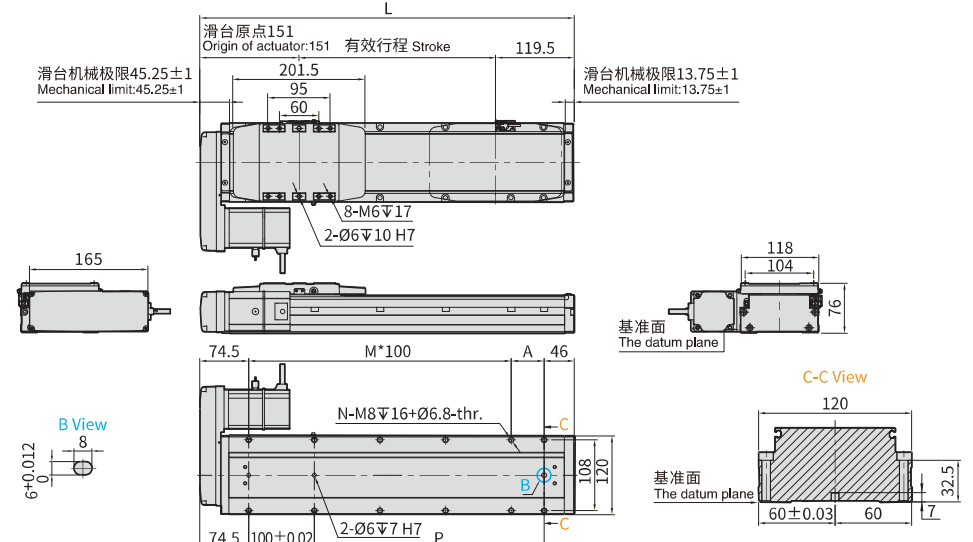
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	330.5	380.5	430.5	480.5	530.5	580.5	630.5	680.5	730.5	780.5	830.5	880.5	930.5	980.5	1030.5	1080.5	1130.5	1180.5	1230.5	1280.5	1330.5	1380.5	1430.5	1480.5	1530.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
KG	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.26	13.61

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

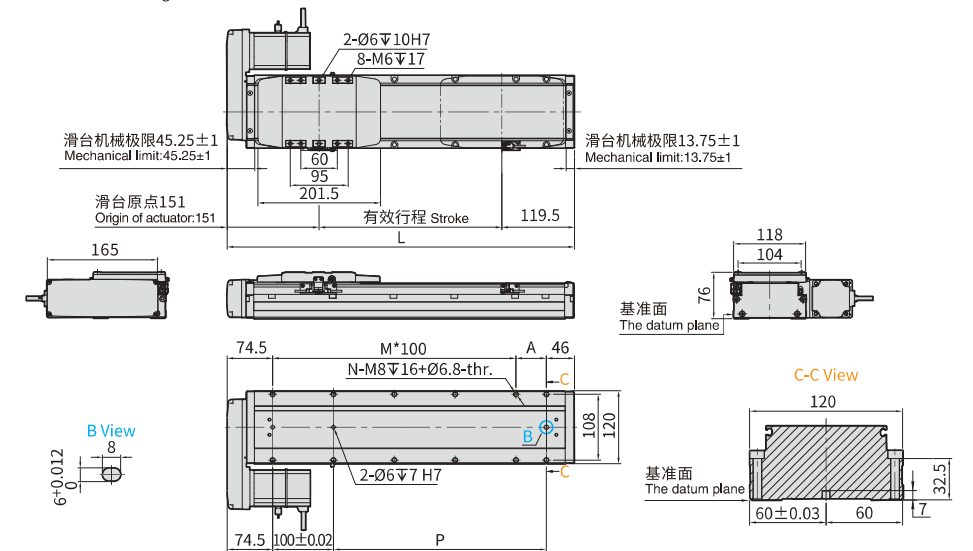
单位:Unit: mm



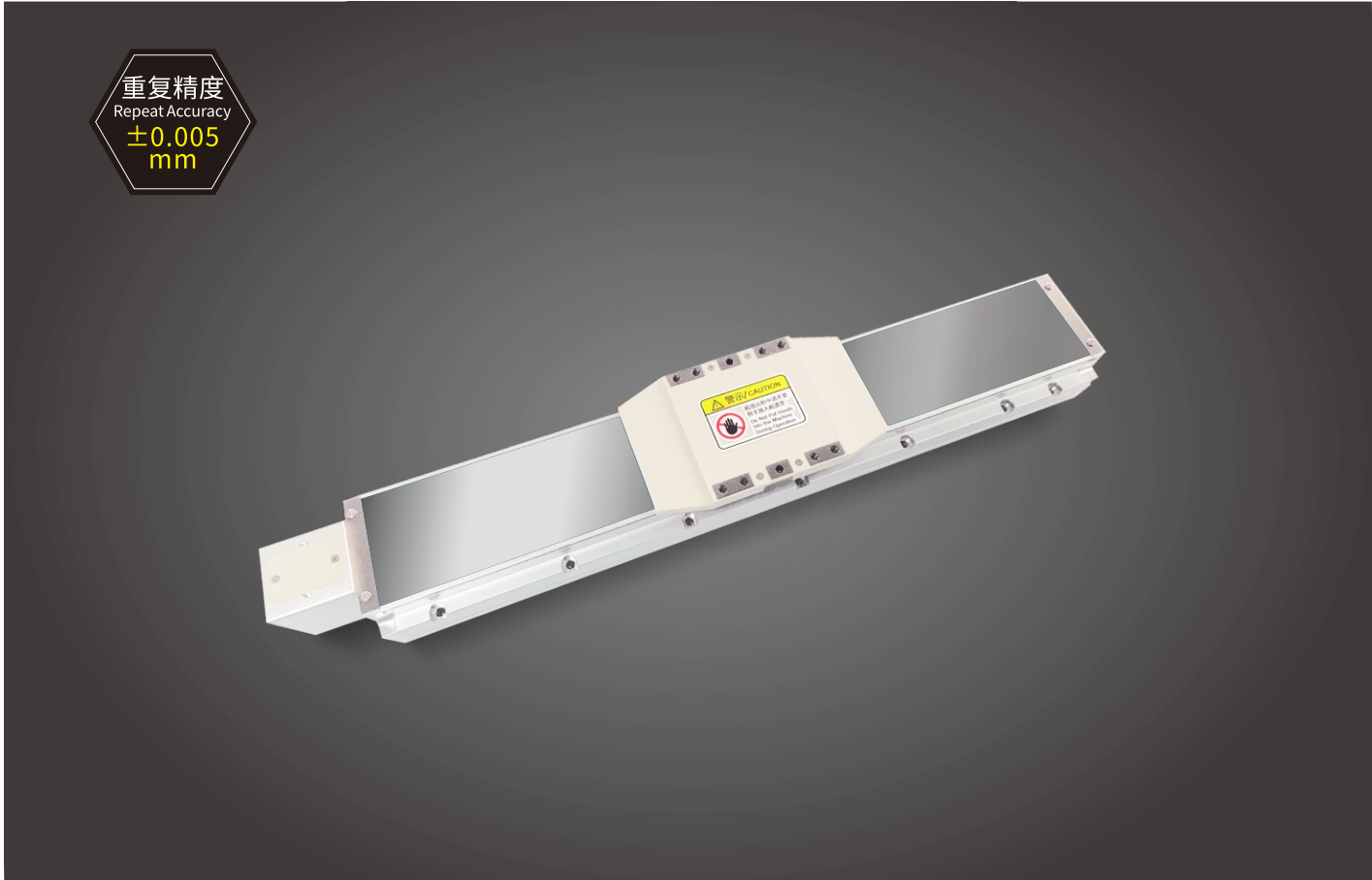
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5	1070.5	1120.5	1170.5	1220.5	1270.5	1320.5	1370.5	1420.5	1470.5	1520.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
KG	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.26	13.61

MR 电机外置右侧 Motor external right side

单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5	1070.5	1120.5	1170.5	1220.5	1270.5	1320.5	1370.5	1420.5	1470.5	1520.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
KG	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.26	13.61



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 1250mm

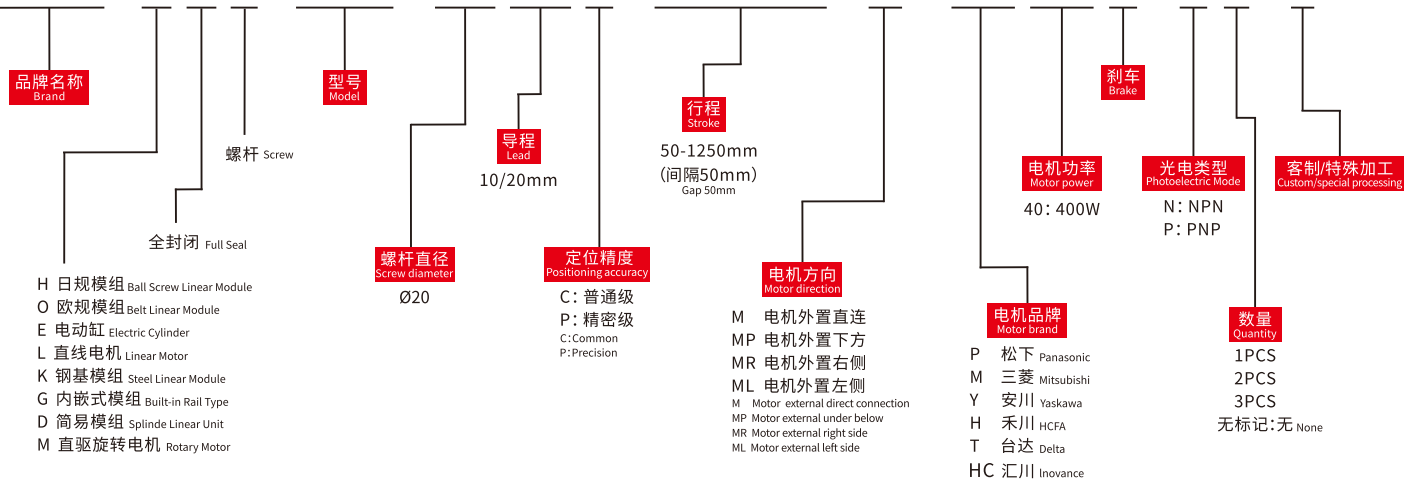
最高速度
Max Speed 1000mm/s

马达容量
Motor Output 400W

滚珠螺杆
Ball Screw Ø20 mm

型号表达方式 Ordering method

TPA-GCR-120E-2010C-L1250-M-HC40B-N3-F



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

规格 Spec	重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.005	
	螺杆导程 (mm) Ball screw lead (mm)	10	20
	最高速度 (mm/s) Maximum speed (mm/s)	500	1000
	最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	88
		垂直使用 (kg) Vertical (kg)	25
	定格推力 (N) Rated thrust (N)	694	347
部 品 Parts	标准行程 (mm) Stroke pitch (mm)	50~1250mm/50 间隔 50 mm Pitch	
	AC伺服马达容量 (W) AC servo motor output (w)	200	
	滚珠螺杆外径 (mm) Ball screw Ø (mm)	C7Ø20	
	联轴器 (mm) Coupling (mm)	12X14	
原点感应器 Original Sense		外挂 Outside	TPA-N674-WR

※1 行程超过750mm时,会产生螺杆偏摆,此时请将速度调降。
※1 When the stroke exceeds 750mm, the screw deflection will occur. Please reduce the speed at this time.
※2 马达加减速设定0.2秒。
※2 Acceleration and deceleration value is set 0.2 second.

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
导程 10 Lead	21kg	1995	343	420
	35kg	1190	196	245
	62kg	665	98	133
导程 20 Lead	7kg	2380	875	980
	15kg	1150	385	434
	28kg	630	203	231

侧面安装 Side mounting		A	B	C
导程 10 Lead	25kg	280	294	1750
	39kg	172	175	1085
	62kg	105	105	665
导程 20 Lead	8kg	630	749	2100
	14kg	385	441	1260
	28kg	182	210	630

垂直安装 Vertical installation		A	C
导程 10 Lead	27kg	1120	1120
	10kg	805	805
	15kg	511	511
导程 20 Lead	5kg	1260	1260
	7kg	875	875
	-	-	-

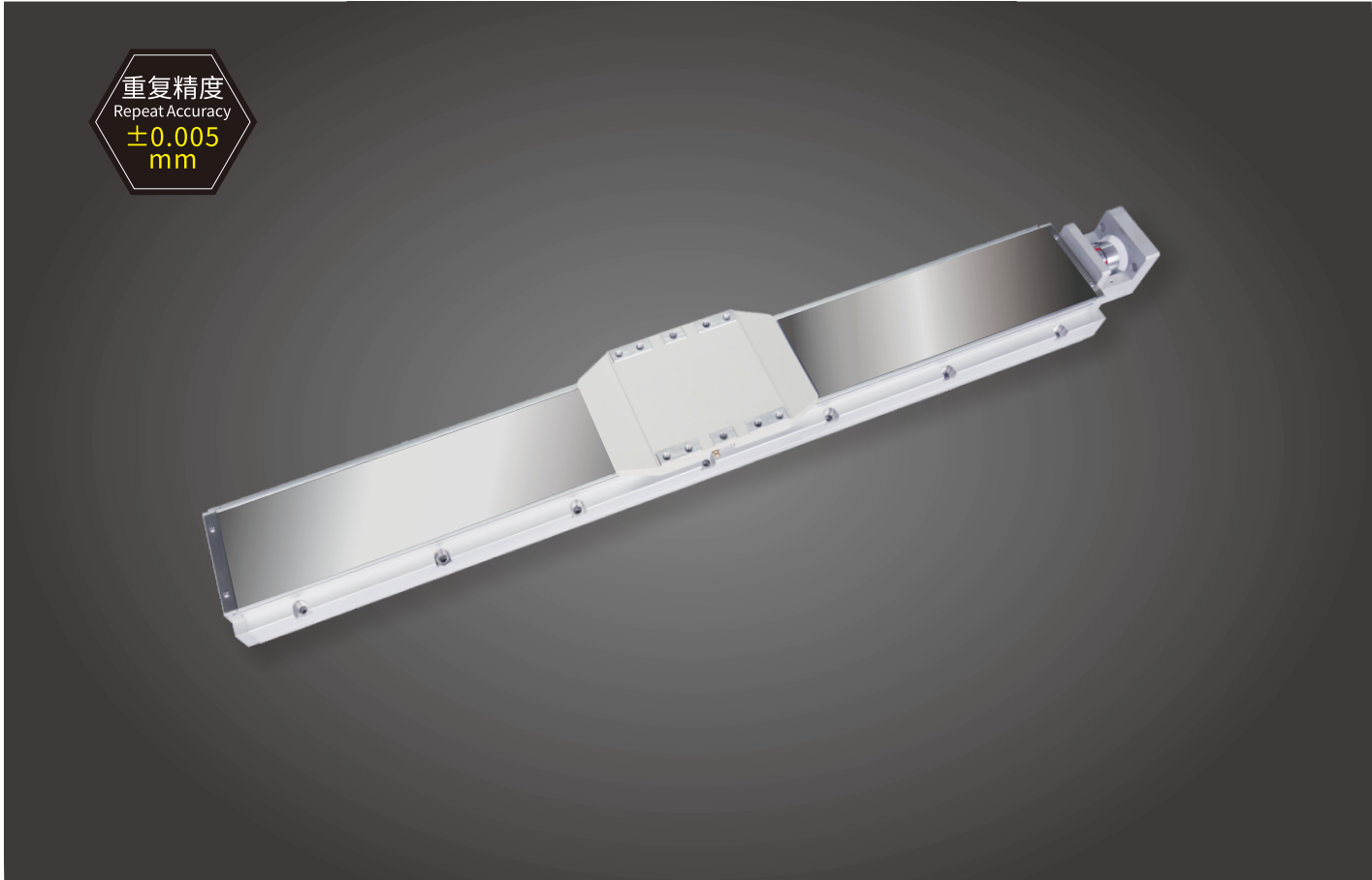
静态容许负载惯量 Static loading moment

MY	1168
MP	606
MR	606

*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-KR43	MR-J4-40A
		有刹车(垂直式样) With brakes (vertical type)	400	220	HG-KR43B	MR-J4-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMD042G1U	MADHT2510
		有刹车(垂直式样) With brakes (vertical type)	400	220	MHMD042G1V	MADHT2510
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECMA-C20604ES	ASD-B20421-B
		有刹车(垂直式样) With brakes (vertical type)	400	220	ECMA-C20604FS	ASD-B20421-B



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 1350mm

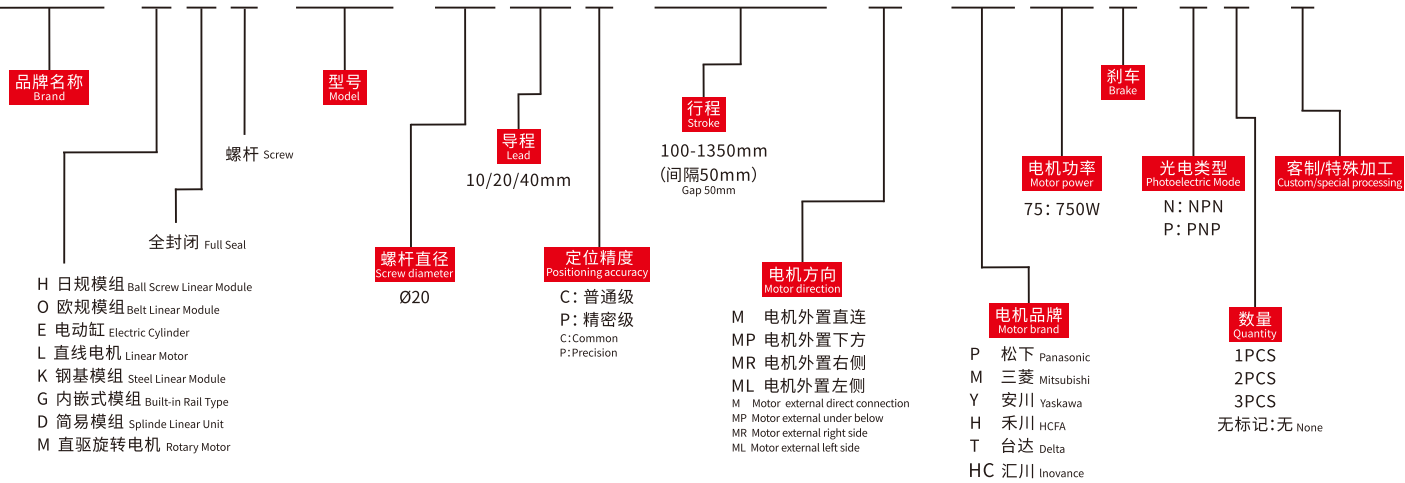
最高速度
Max Speed 2000mm/s

马达容量
Motor Output 750W

滚珠螺杆
Ball Screw Ø20 mm

型号表达方式 Ordering method

TPA-GCR-150-2010C-L1350-M-HC75B-N3-F

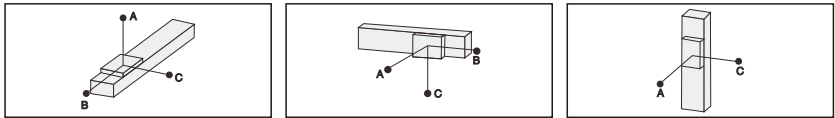


产品性能参数如下 Product performance parameters are as follows

规格 Spec	重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.005		
	螺杆导程 (mm) Ball screw lead (mm)	10	20	40
	最高速度 (mm/s) Maximum speed (mm/s)	500	1000	2000
	最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	120	83
		垂直使用 (kg) Vertical (kg)	40	25
	定格推力 (N) Rated thrust (N)	1281	640	320
部 品 Parts	标准行程 (mm) Stroke pitch (mm)	100~1350mm/50 间隔 50 mm Pitch		
	AC伺服马达容量 (W) AC servo motor output (w)	750		
	滚珠螺杆外径 (mm) Ball screw Ø (mm)	C7Ø20		
	联轴器 (mm) Coupling (mm)	12X19		
原 点 感 应 器 Original Sense	外挂 Outside	TPA-N674-WR		

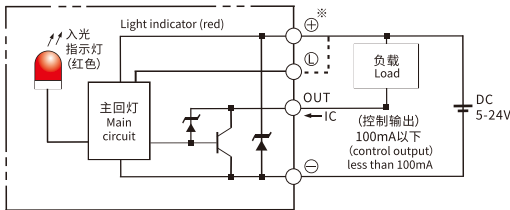
※1 行程超过850mm时,会产生螺杆偏摆,此时请将速度调降。
※1 When the stroke exceeds 850mm, the screw deflection will occur. Please reduce the speed at this time.
※2 马达加减速设定0.2秒。
※2 Acceleration and deceleration value is set 0.2 second.

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	C		
10	65kg	1911	338	373	10	60kg	408	368	2092	10	15kg	1618	1618	
20	85kg	1445	248	276	20	80kg	296	266	1554	20	25kg	970	970	
	120kg	1000	164	182		120kg	182	182	1102		40kg	607	607	
40	35kg	1666	547	538	40	30kg	633	644	1961	40	10kg	1922	1922	
	55kg	1030	331	328		50kg	365	369	1143		14kg	1377	1377	
Lead	83kg	654	206	204	Lead	83kg	230	231	656	Lead	25kg	769	769	
	15kg	1126	740	577		12kg	729	936	1417		7kg	1356	1356	
Lead	22kg	755	491	384	Lead	22kg	384	491	755	Lead	12kg	790	790	
	43kg	366	231	183		43kg	183	231	366		-	-	-	

感应器连接图<原点及端点> Sensor layout



GCR

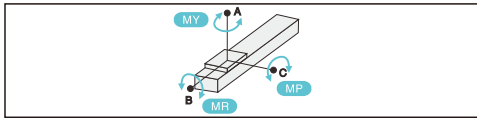
GCB

GCBS

GCRS

参考资料
Reference data

静态容许负载惯量 Static loading moment



(单位Unit:N.m)	
MY	886
MP	826
MR	1500

*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-KR73	MR-J4-T0A
		有刹车(垂直式样) With brakes (vertical type)	750	220	HG-KR73B	MR-J4-T0A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMD082G1U	MADHT3520
		有刹车(垂直式样) With brakes (vertical type)	750	220	MHMD082G1V	MADHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECMA-C20807ES	ASD-B20721-B
		有刹车(垂直式样) With brakes (vertical type)	750	220	ECMA-C20807FS	ASD-B20721-B



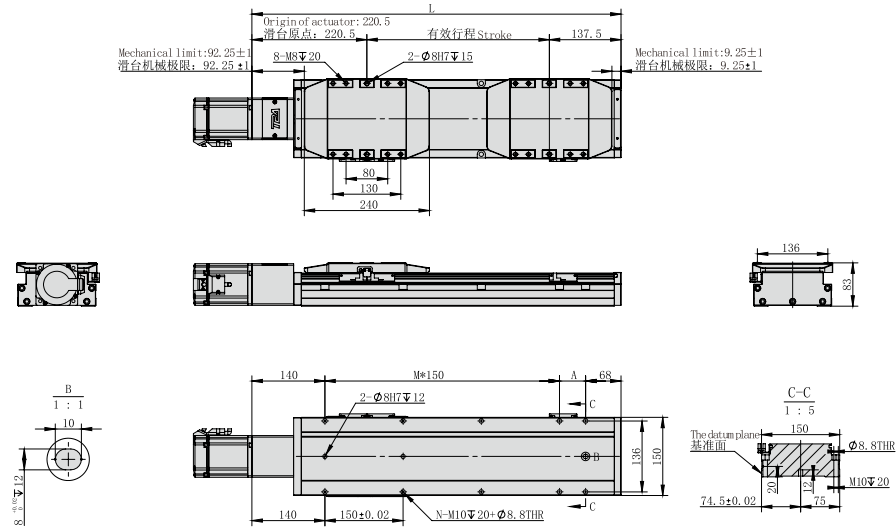
电机外置直连/电机外置下方

Motor external direct connection/Motor external under below

M

电机外置直连 Motor external direct connection

单位:Unit: mm

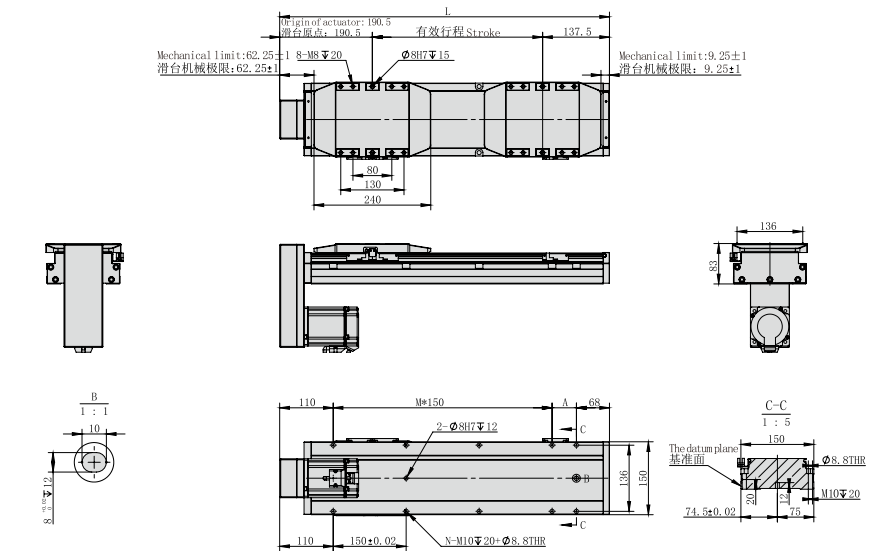


有效行程 Valid Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
L	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
KG	10.02	10.79	11.57	12.34	13.11	13.88	14.65	15.42	16.19	17.73	18.50	19.28	19.55	20.05	20.82	21.59	22.36	23.13	23.90	24.67	25.44	26.21	26.98	27.75	28.52	29.29

MP

电机外置下方 Motor external under below

单位:Unit: mm



有效行程 Valid Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
L	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
KG	10.30	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.40	24.18	24.95	25.72	26.49	27.26	28.03	28.80	29.57

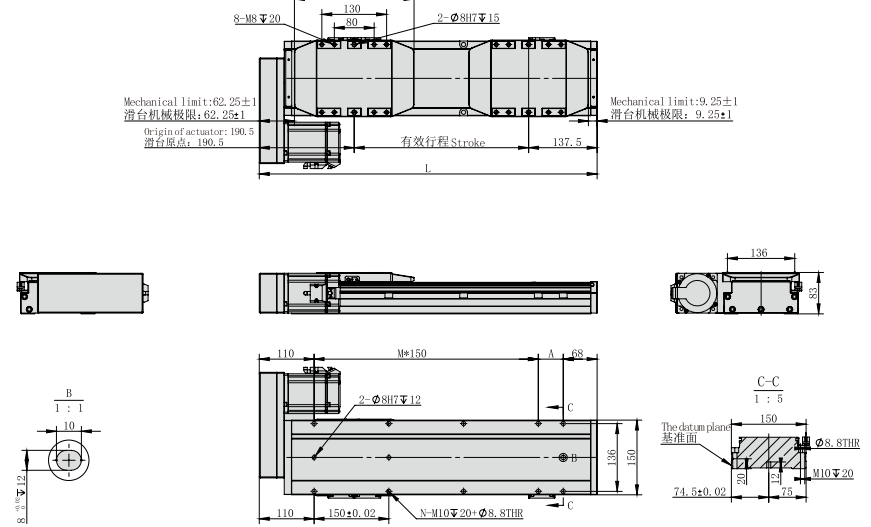
电机外置左侧/电机外置右侧

Motor external left side/Motor external right side

ML

电机外置左侧 Motor external left side

单位:Unit: mm

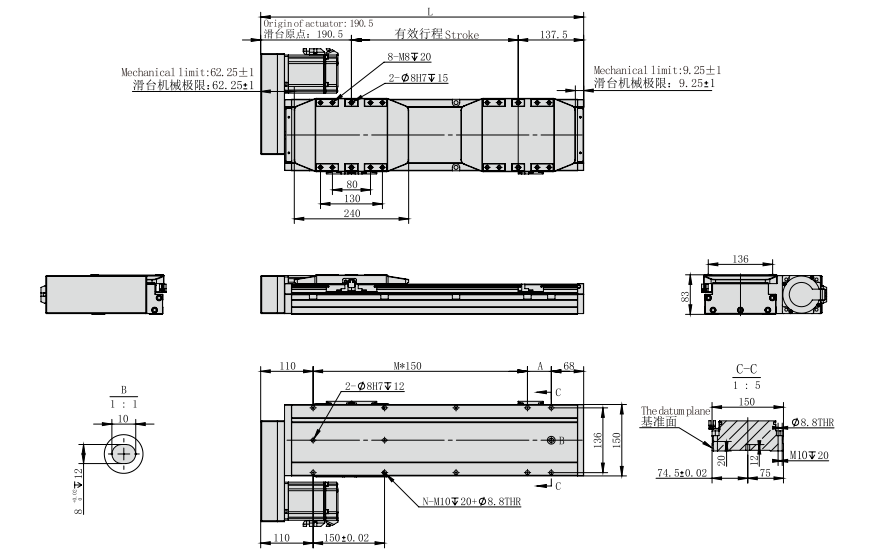


有效行程 Valid Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
L	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
KG	10.30	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.40	24.18	24.95	25.72	26.49	27.26	28.03	28.80	29.57

MR

电机外置右侧 Motor external right side

单位:Unit: mm



有效行程 Valid Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
L	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378	1428	1478	1528	1578	1628	1678
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
KG	10.30	11.07	11.84	12.61	13.38	14.15	14.92	15.69	16.47	17.24	18.01	18.78	19.55	20.32	21.09	21.86	22.63	23.40	24.18	24.95	25.72	26.49	27.26	28.03	28.80	29.57



重复精度
Repeat Accuracy
±0.005 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
1700mm

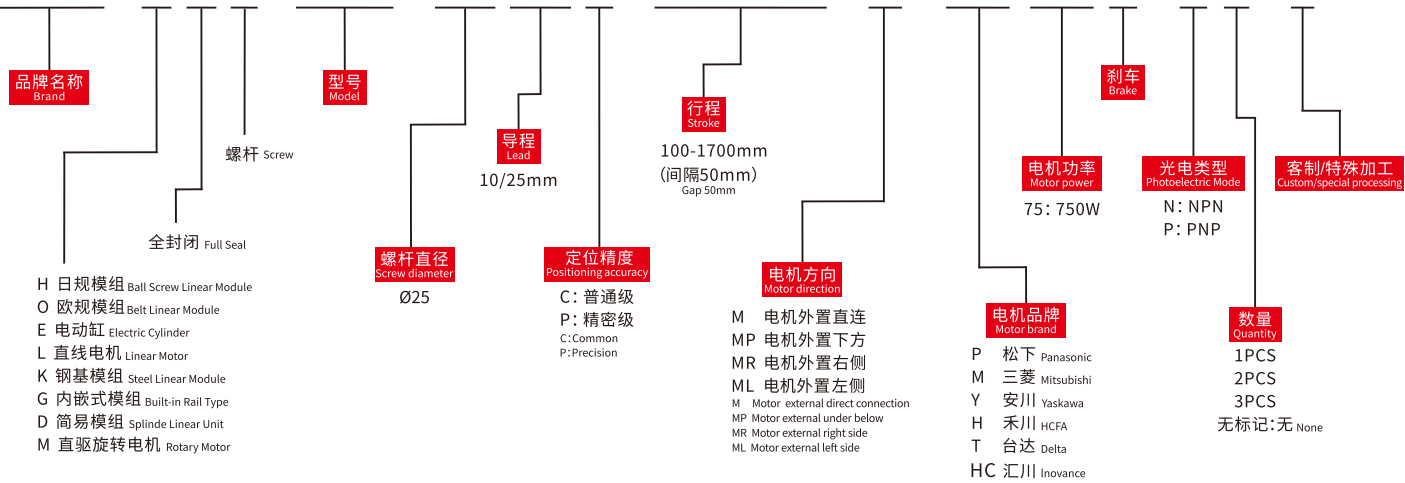
最高速度
Max Speed
2000mm/s

马达容量
Motor Output
750W

滚珠螺杆
Ball Screw
Ø25 mm

型号表达方式 Ordering method

TPA-GCR-170-2525C-L1700-M-HC75B-N3-F



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

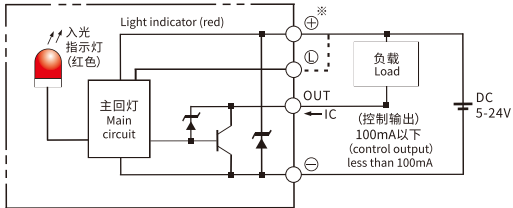
规格 Spec	重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.005	
	螺杆导程 (mm) Ball screw lead (mm)	10	25
	最高速度 (mm/s) Maximum speed (mm/s)	500	1250
	最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	160
		垂直使用 (kg) Vertical (kg)	50
	定格推力 (N) Rated thrust (N)	1301	650
部 品 Parts	标准行程 (mm) Stroke pitch (mm)	100~1700mm/50 间隔 50 mm Pitch	
	AC伺服马达容量 (W) AC servo motor output (w)	750	
	滚珠螺杆外径 (mm) Ball screw Ø (mm)	C7Ø25	
	联轴器 (mm) Coupling (mm)	15X19	
原点感应器 Original Sense		外挂 Outside	TPA-N674-WR

※1 行程超过850mm时,会产生螺杆偏摆,此时请将速度调降。
※1 When the stroke exceeds 850mm, the screw deflection will occur. Please reduce the speed at this time.
※2 马达加减速设定0.2秒。
※2 Acceleration and deceleration value is set 0.2 second.

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	C	
60kg	2204	436	561	60kg	561	436	2204	10kg	2937	2937	
90kg	1433	279	361	90kg	361	279	1433	20kg	1472	1472	
120kg	1025	195	250	120kg	250	195	1025	40kg	733	733	
20kg	2541	1016	1095	20kg	1095	1016	2541	5kg	4123	4123	
30kg	1663	657	710	30kg	710	657	1663	10kg	2066	2066	
60kg	808	314	340	60kg	340	314	808	19kg	1034	1034	
导程 25 Lead	A	B	C	导程 25 Lead	A	B	C	导程 25 Lead	A	C	
60kg	2204	436	561	60kg	561	436	2204	10kg	2937	2937	
90kg	1433	279	361	90kg	361	279	1433	20kg	1472	1472	
120kg	1025	195	250	120kg	250	195	1025	40kg	733	733	
20kg	2541	1016	1095	20kg	1095	1016	2541	5kg	4123	4123	
30kg	1663	657	710	30kg	710	657	1663	10kg	2066	2066	
60kg	808	314	340	60kg	340	314	808	19kg	1034	1034	

感应器连接图<原点及端点> Sensor layout



GCR

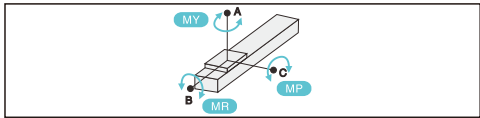
GCB

GCBS

GCRS

参考资料
Reference data

静态容许负载惯量 Static loading moment



(单位Unit:N.m)	
MY	1113
MP	1113
MR	2191

*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

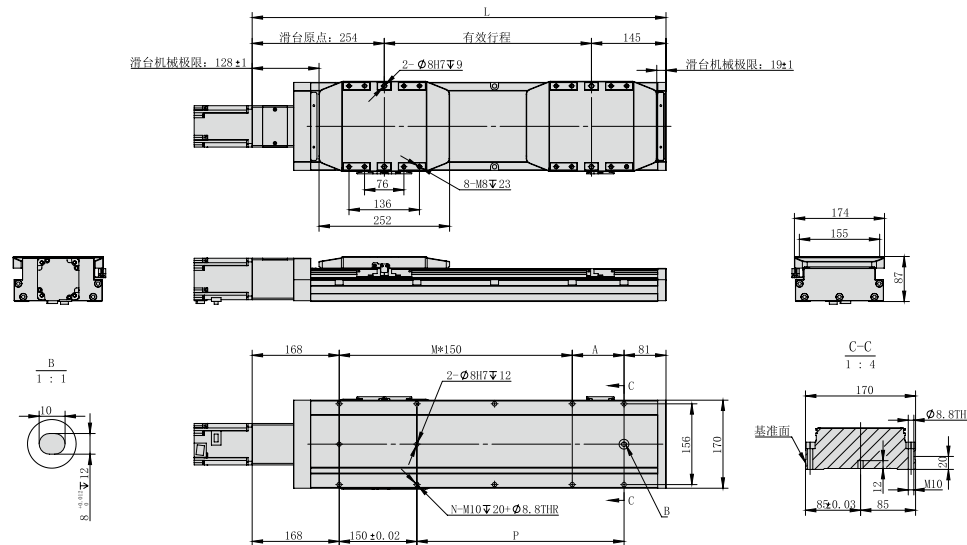
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	750	220	HG-KR73	MR-J4-70A
		有刹车(垂直式样) With brakes (vertical type)	750	220	HG-KR73B	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMD082G1U	MADHT3520
		有刹车(垂直式样) With brakes (vertical type)	750	220	MHMD082G1V	MADHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECMA-C20807ES	ASD-B20721-B
		有刹车(垂直式样) With brakes (vertical type)	750	220	ECMA-C20807FS	ASD-B20721-B

电机外置直连/电机外置下方

Motor external direct connection/Motor external under below

M 电机外置直连 Motor external direct connection

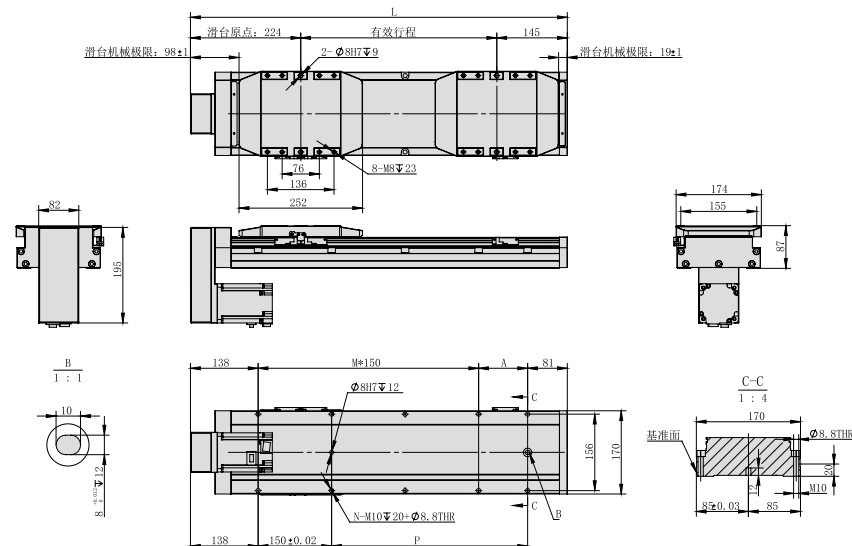
单位:Unit:mm



有效行程 Valid 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
L	499	549	599	649	699	749	799	849	899	949	999	1049	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999	2049	2099	2149	2099
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50
M	1	1	2	2	2	3	3	3	4	4	4	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11	12	
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	22	22	22	22	24	24	24	26	26	26	28
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
KG	12.3	13.1	13.9	14.7	15.5	16.3	17.1	17.9	18.7	19.5	20.3	21.1	21.9	22.7	23.5	24.3	25.1	25.9	26.7	27.5	28.3	29.1	29.9	30.7	31.5	32.3	33.1	33.9	34.7	35.5	36.3	37.1	38.9

MP 电机外置下方 Motor external under below

单位:Unit:mm



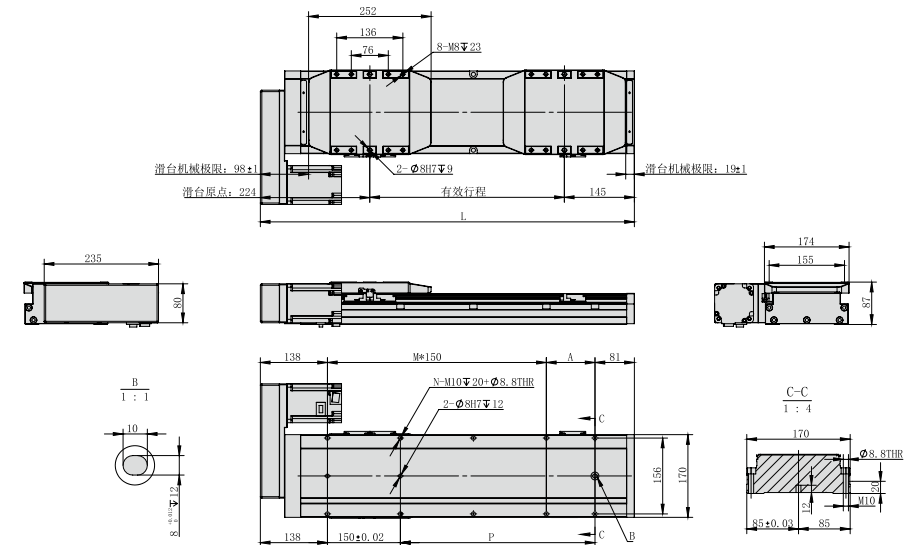
有效行程 Valid Stages	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519	1569	1619	1669	1719	1769	1819	1869	1919	1969	2019	2069
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11	12
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26	28
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
KG	13	13.8	14.6	15.4	16.2	17	17.8	18.6	19.4	20.2	21	21.8	22.6	23.4	24.2	25	25.8	26.6	27.4	28.2	29	29.8	30.4	31.2	32	32.8	33.6	34.2	35	35.8	36.6	37.4	38.2

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

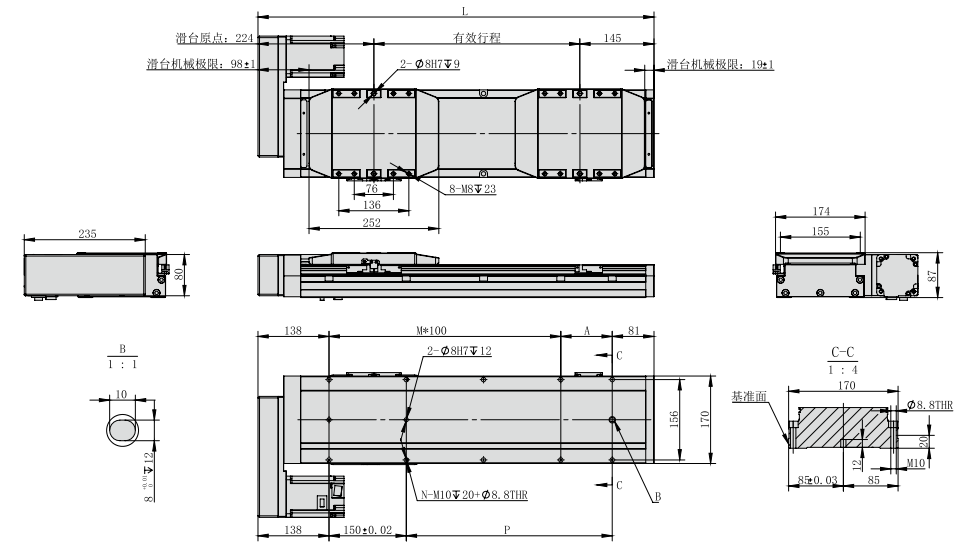
单位:Unit:mm



有效行程 Valid 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
L	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	1769	1819	1869	1919	1969	2019	2069
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11	12
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26	28
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
KG	13	13.8	14.6	15.4	16.2	17	17.8	18.6	19.4	20.2	21	21.8	22.6	23.4	24.2	25	25.8	26.6	27.4	28.2	29	29.8	30.4	31.2	32	32.8	33.6	34.2	35	35.8	36.6	37.4	38.2

MR 电机外置右侧 Motor external right side

单位:Unit:mm



有效行程 Valid 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
L	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	1769	1819	1869	1919	1969	2019	2069
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11	12
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26	28
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
KG	13	13.8	14.6	15.4	16.2	17	17.8	18.6	19.4	20.2	21	21.8	22.6	23.4	24.2	25	25.8	26.6	27.4	28.2	29	29.8	30.4	31.2	32	32.8	33.6	34.2	35	35.8	36.6	37.4	38.2



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
1700mm

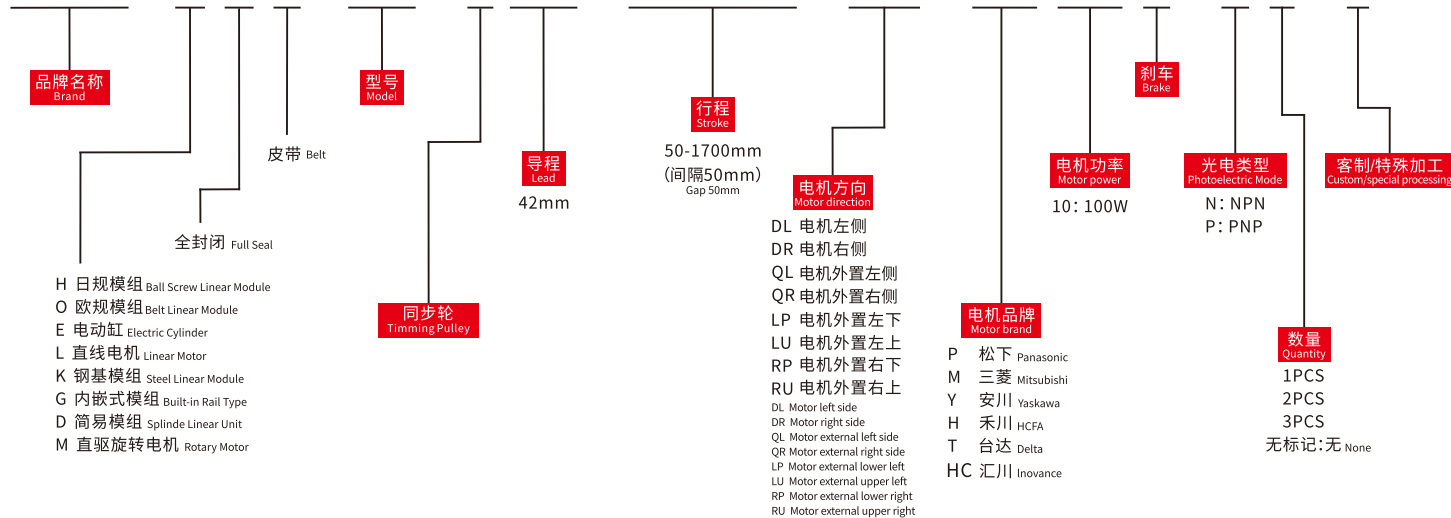
最高速度
Max Speed
2100mm/s

马达容量
Motor Output
100W

皮带宽度
Belt width
9 mm

型号表达方式 Ordering method

TPA-GCB-50-P42-L1700-DL-HC10B-N3-F

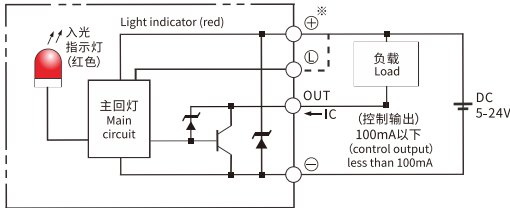


产品性能参数如下 Product performance parameters are as follows

规格 Spec	重复定位精度 (mm) Repeated positioning accuracy (mm)		± 0.04
	导程 (mm) Lead (mm)		42
	最高速度 (mm/s) Maximum speed (mm/s)		2100
	最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	3
		垂直使用 (kg) Vertical(kg)	-
部品 Parts	定格推力 (N) Rated thrust (N)		35
	标准行程 (mm) Stroke pitch (mm)		50~1700mm/50 间隔 50 mm Pitch
	AC伺服马达容量 (W) AC servo motor output (w)		100
	皮带宽度 (mm) Belt width(mm)		9
原点感应器 Original Sense		外挂 Outside	TPA-N674-WR

※1 马达加减速设定0.4秒。
※1 Acceleration and deceleration value is set 0.4 second.

感应器连接图<原点及端点> Sensor layout



GCR

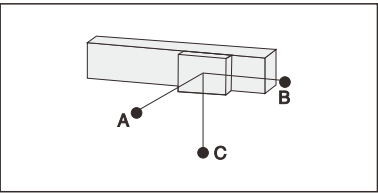
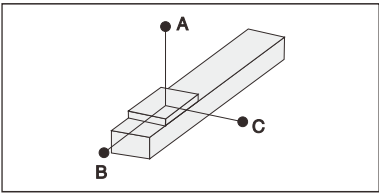
GCB

GCBS

GCRS

参考资料
Reference data

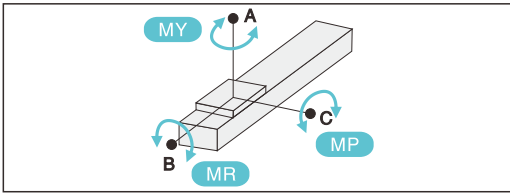
容许负载力矩表 N.m Allowable overhang



(单位Unit:mm)				
水平安装 Horizontal installation		A	B	C
导程 42 Lead	3kg	520	150	254
	-	-	-	-
	-	-	-	-

(单位Unit:mm)				
侧面安装 Side mounting		A	B	C
导程 42 Lead	3kg	238	140	488
	-	-	-	-
	-	-	-	-

静态容许负载惯量 Static loading moment



(単位Unit:N.m)	
MY	103
MP	103
MR	144

*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

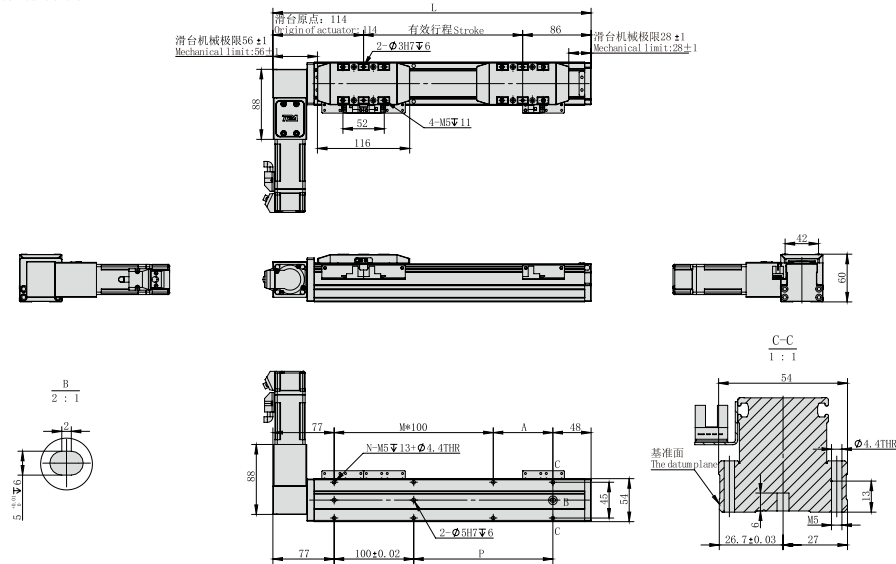
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	100	220	HG-KR13	MR-J4-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	100	220	MHMD042G1U	MADHT1505
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	100	220	ECMA-C20604ES	ASD-B20121-B



电机左侧/电机右侧
Motor left side/Motor right side

DL 电机左侧 Motor left side

单位:Unit: mm

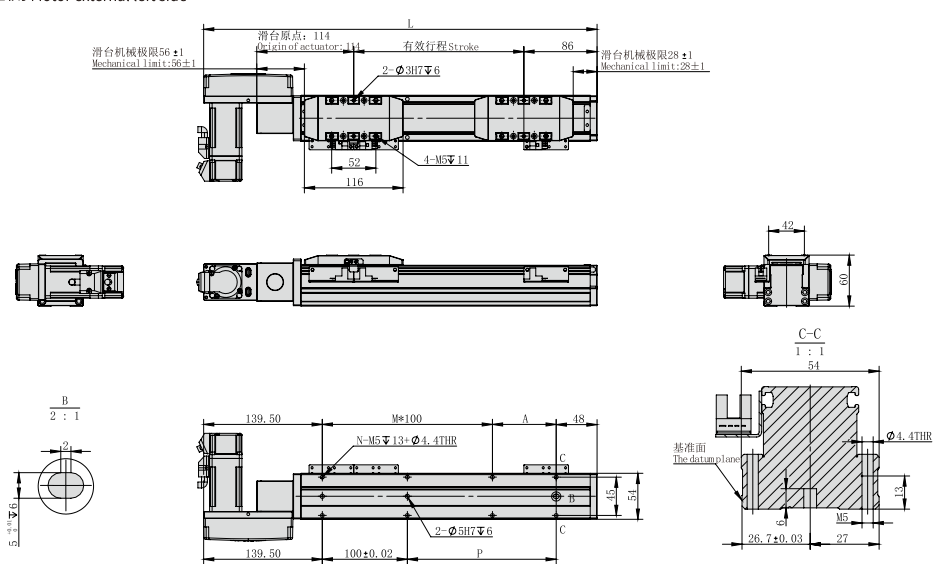


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17
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	36	36	38	38
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475	1525	1575	1625	1675
KG	1.05	1.15	1.25	1.35	1.45	1.55	1.65	1.75	1.85	1.95	2.05	2.15	2.25	2.35	2.45	2.55	2.65	2.75	2.85	2.95	3.05	3.15	3.25	3.35	3.45	3.55	3.65	3.75	3.85	3.95	4.05	4.15	4.25	4.35

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

QL 电机外置左侧 Motor external left side

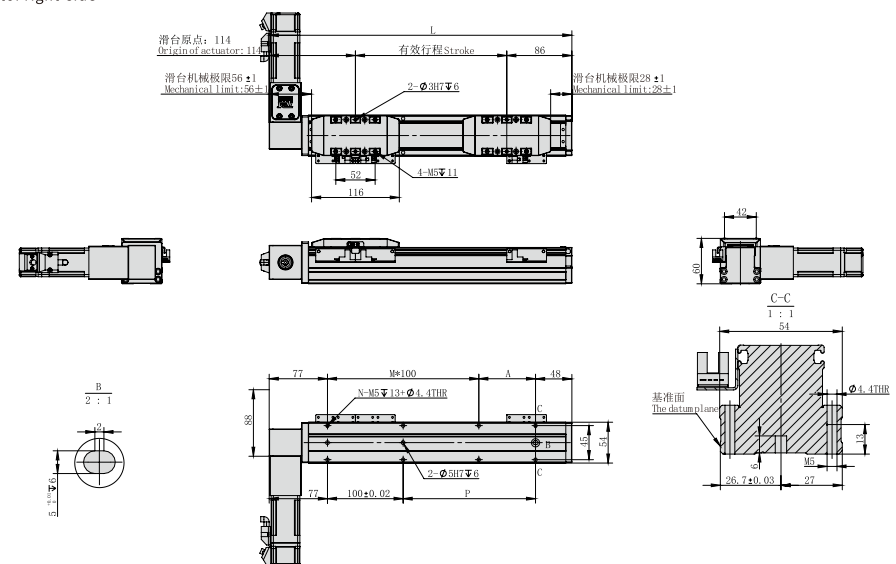
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	312.5	362.5	412.5	462.5	512.5	562.5	612.5	662.5	712.5	762.5	812.5	862.5	912.5	962.5	1012.5	1062.5	1112.5	1162.5	1212.5	1262.5	1312.5	1362.5	1412.5	1462.5	1512.5	1562.5	1612.5	1662.5	1712.5	1762.5	1812.5	1862.5	1912.5	1962.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17
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	36	36	38	38
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475	1525	1575	1625	1675
KG	1.05	1.15	1.25	1.35	1.45	1.55	1.65	1.75	1.85	1.95	2.05	2.15	2.25	2.35	2.45	2.55	2.65	2.75	2.85	2.95	3.05	3.15	3.25	3.35	3.45	3.55	3.65	3.75	3.85	3.95	4.05	4.15	4.25	4.35

DR 电机右侧 Motor right side

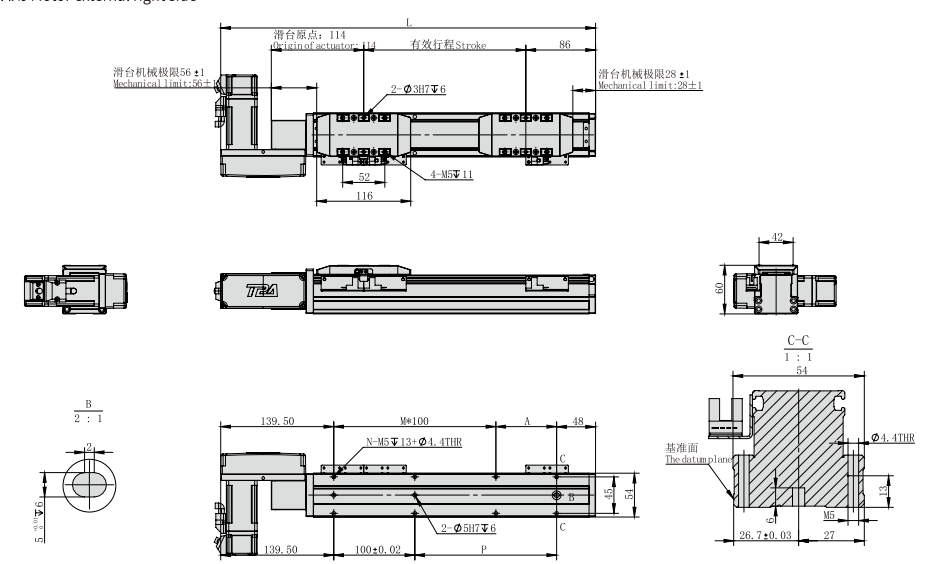
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	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
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17
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	36	36	38	38
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475	1525	1575	1625	1675
KG	1.05	1.15	1.25	1.35	1.45	1.55	1.65	1.75	1.85	1.95	2.05	2.15	2.25	2.35	2.45	2.55	2.65	2.75	2.85	2.95	3.05	3.15	3.25	3.35	3.45	3.55	3.65	3.75	3.85	3.95	4.05	4.15	4.25	4.35

电机外置右侧 Motor external right side

单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	312.5	362.5	412.5	462.5	512.5	562.5	612.5	662.5	712.5	762.5	812.5	862.5	912.5	962.5	1012.5	1062.5	1112.5	1162.5	1212.5	1262.5	1312.5	1362.5	1412.5	1462.5	1512.5	1562.5	1612.5	1662.5	1712.5	1762.5	1812.5	1862.5	1912.5	1962.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17
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	36	36	38	38
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475	1525	1575	1625	1675
KG	1.05	1.15	1.25	1.35	1.45	1.55	1.65	1.75	1.85	1.95	2.05	2.15	2.25	2.35	2.45	2.55	2.65	2.75	2.85	2.95	3.05	3.15	3.25	3.35	3.45	3.55	3.65	3.75	3.85	3.95	4.05	4.15	4.25	4.35



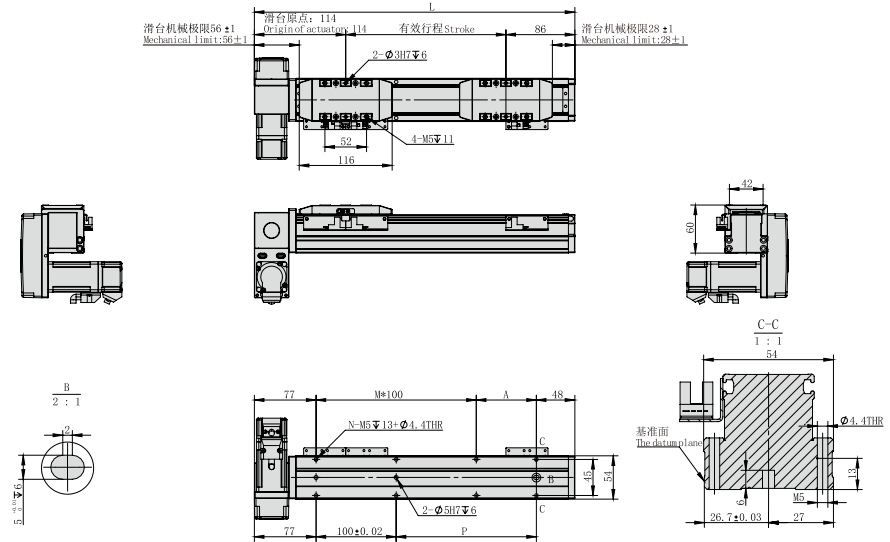
电机外置左下/电机外置左上

Motor external lower left/Motor external upper left

LP

电机外置左下 Motor external lower left

单位:Unit: mm

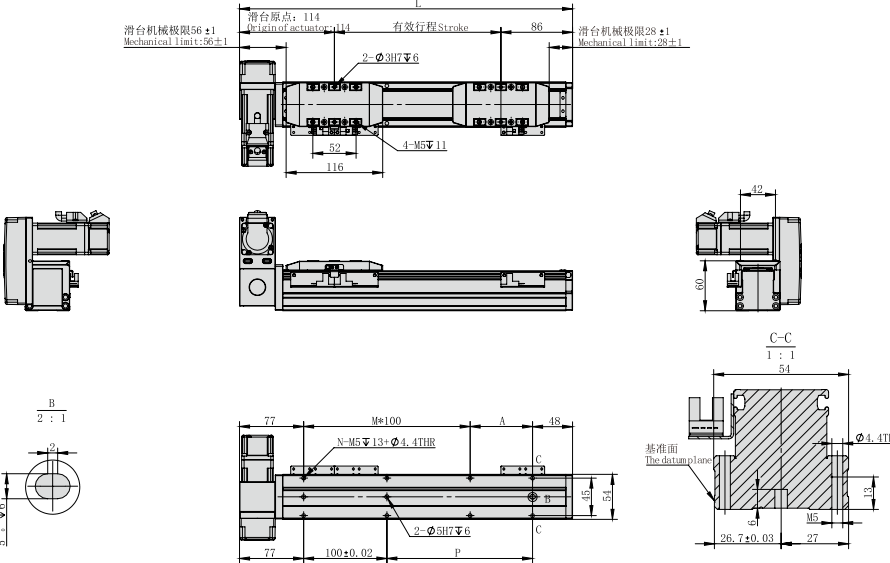


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17
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	36	36	38	38
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475	1525	1575	1625	1675
KG	1.05	1.15	1.25	1.35	1.45	1.55	1.65	1.75	1.85	1.95	2.05	2.15	2.25	2.35	2.45	2.55	2.65	2.75	2.85	2.95	3.05	3.15	3.25	3.35	3.45	3.55	3.65	3.75	3.85	3.95	4.05	4.15	4.25	4.35

LU

电机外置左上 Motor external upper left

单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	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
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17
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	36	36	38	38
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475	1525	1575	1625	1675
KG	1.05	1.15	1.25	1.35	1.45	1.55	1.65	1.75	1.85	1.95	2.05	2.15	2.25	2.35	2.45	2.55	2.65	2.75	2.85	2.95	3.05	3.15	3.25	3.35	3.45	3.55	3.65	3.75	3.85	3.95	4.05	4.15	4.25	4.35

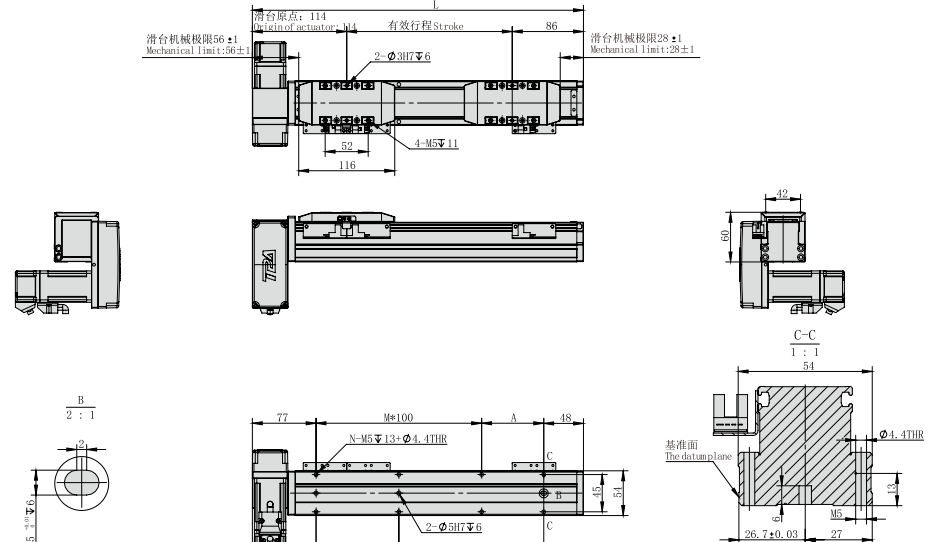
电机外置右下/电机外置右上

Motor external lower right/Motor external upper right

RP

电机外置右下 Motor external lower right

单位:Unit: mm

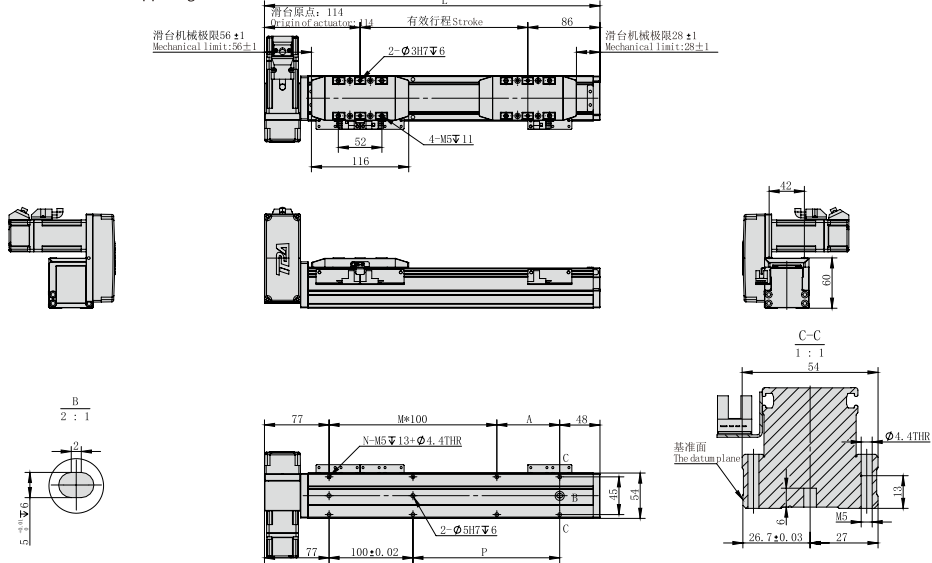


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17
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	36	36	38	38
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475	1525	1575	1625	1675
KG	1.05	1.15	1.25	1.35	1.45	1.55	1.65	1.75	1.85	1.95	2.05	2.15	2.25	2.35	2.45	2.55	2.65	2.75	2.85	2.95	3.05	3.15	3.25	3.35	3.45	3.55	3.65	3.75	3.85	3.95	4.05	4.15	4.25	4.35

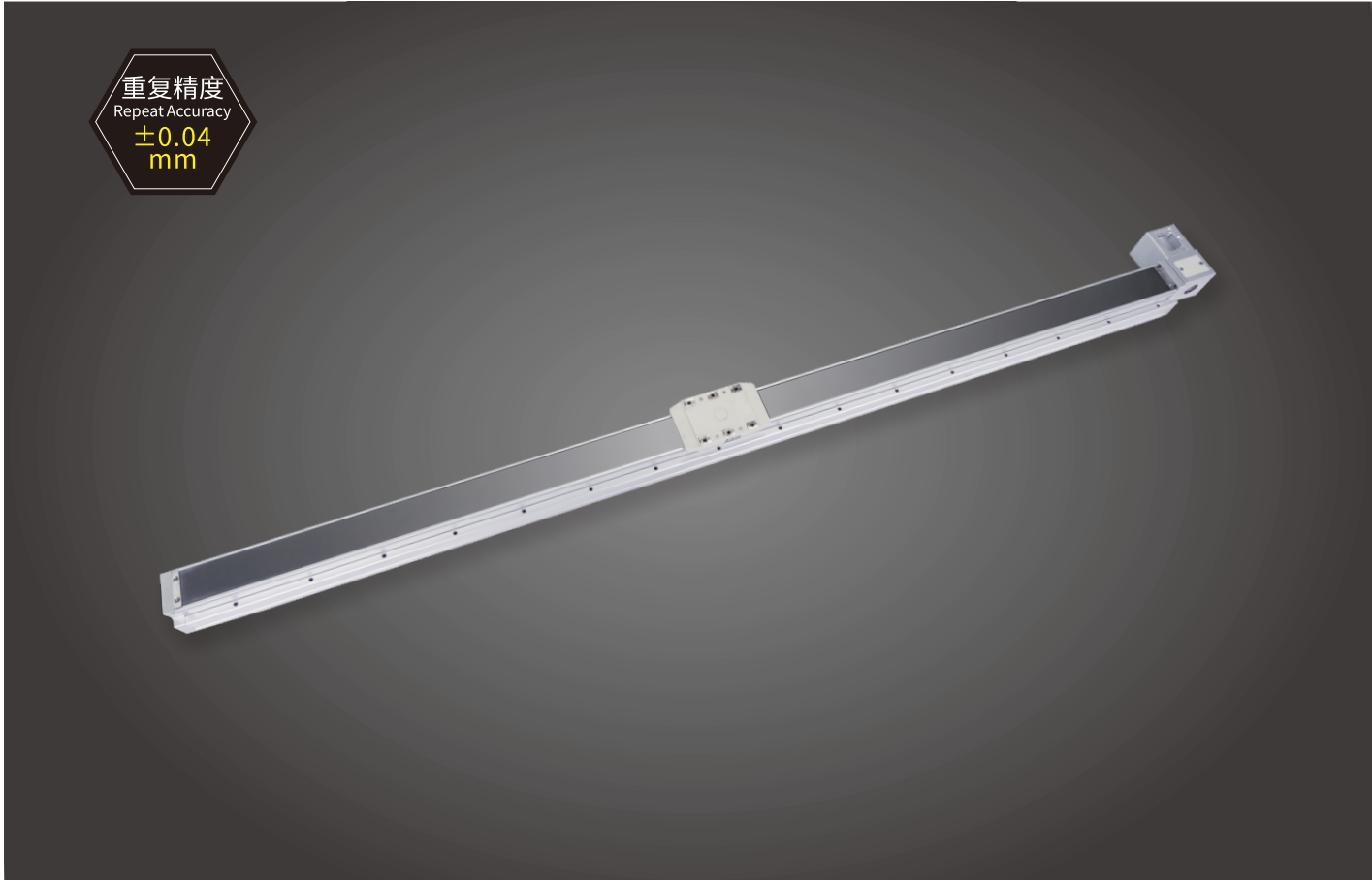
RU

电机外置右上 Motor external upper right

单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	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
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17
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	36	36	38	38
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475	1525	1575	1625	1675
KG	1.05	1.15	1.25	1.35	1.45	1.55	1.65	1.75	1.85	1.95	2.05	2.15	2.25	2.35	2.45	2.55	2.65	2.75	2.85	2.95	3.05	3.15	3.25	3.35	3.45	3.55	3.65	3.75	3.85	3.95	4.05	4.15	4.25	4.35



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
1700mm

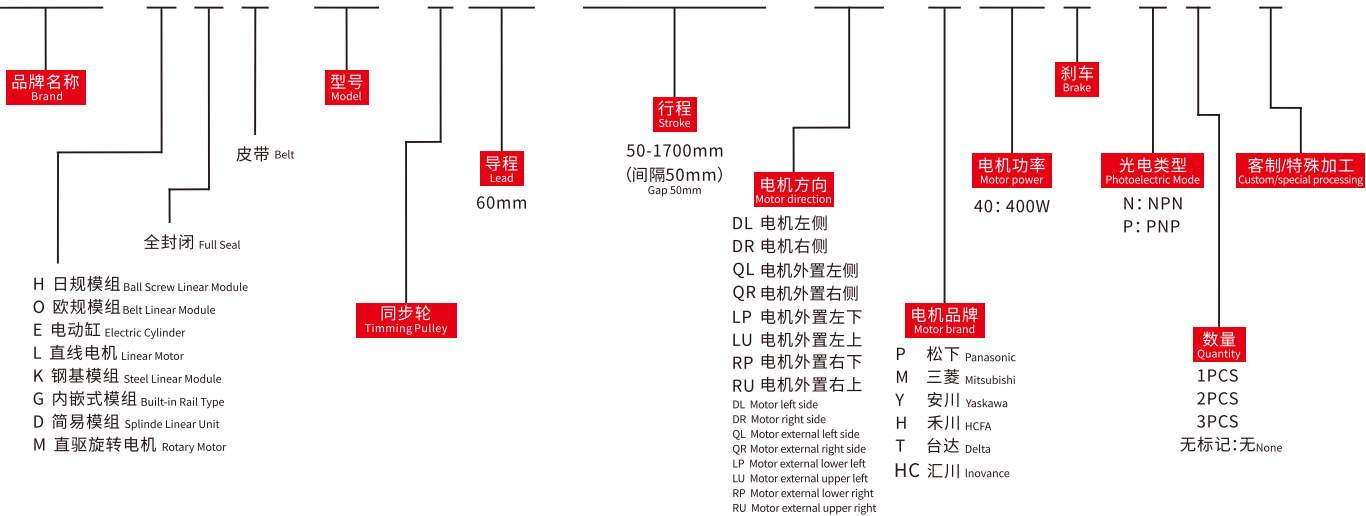
最高速度
Max Speed
3000mm/s

马达容量
Motor Output
400W

皮带宽度
Belt width
15mm

型号表达方式 Ordering method

TPA-GCB-80-P60-L1700-DL-HC40B-N3-F

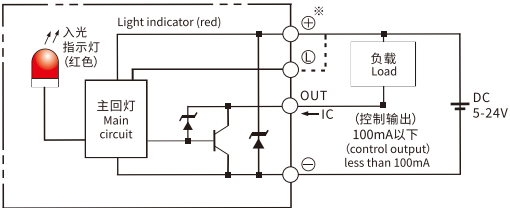


产品性能参数如下 Product performance parameters are as follows

规格 Spec	重复定位精度 (mm) Repeated positioning accuracy (mm)		±0.04
	导程 (mm) Lead (mm)		60
	最高速度 (mm/s) Maximum speed (mm/s)		3000
	最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	12
		垂直使用 (kg) Vertical(kg)	-
部品 Parts	定格推力 (N) Rated thrust (N)		65
	标准行程 (mm) Stroke pitch (mm)		50~1700mm/50 间隔 50 mm Pitch
	AC伺服马达容量 (W) AC servo motor output (w)		400
	皮带宽度 (mm) Belt width(mm)		15
原点感应器 Original Sense		外挂 Outside	TPA-N674-WR

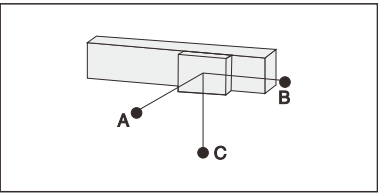
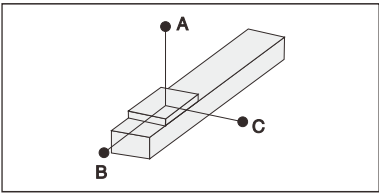
※1 马达加减速设定0.4秒。
※1 Acceleration and deceleration value is set 0.4 second.

感应器连接图<原点及端点> Sensor layout



GCR
GCB
GCBS
GCRS
参考资料 Reference data

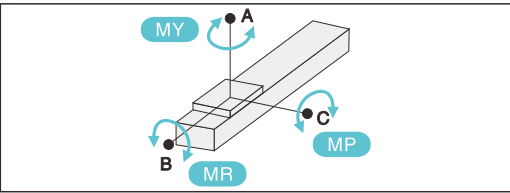
容许负载力矩表 N.m Allowable overhang



(单位Unit:mm)		A	B	C
导程 60 Lead	水平安装 Horizontal installation			
	4kg	1794	688	538
	8kg	858	324	253
	12kg	670	251	197

(单位Unit:mm)		A	B	C
导程 60 Lead	侧面安装 Side mounting			
	4kg	348	446	1170
	8kg	285	365	961
	12kg	197	251	670

静态容许负载惯量 Static loading moment



(单位Unit:N.m)		MY	318
		MP	318
		MR	626

*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

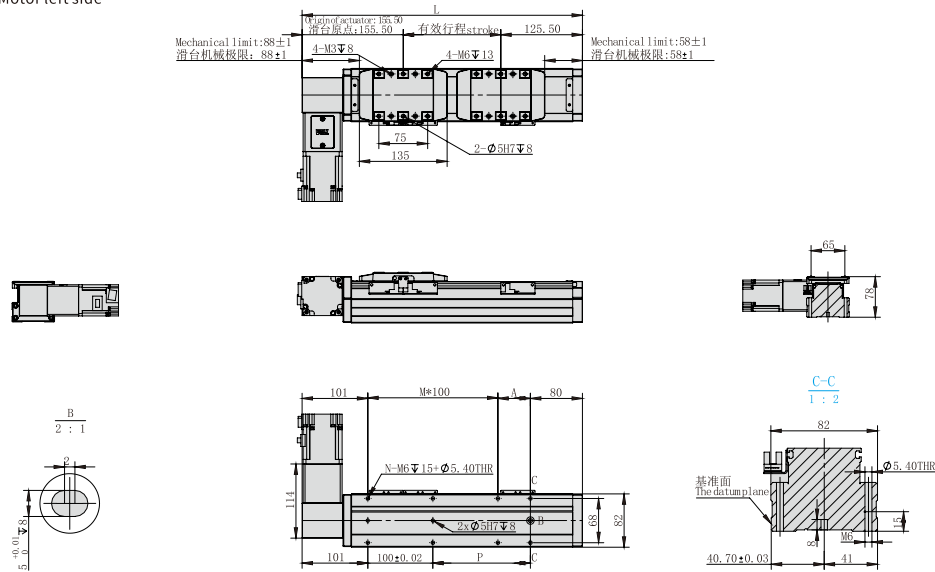
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	400	220	HG-KR43	MR-J4-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMD042G1U	MADHT2510
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECMA-C20604ES	ASD-B20421-B



电机左侧/电机右侧
Motor left side/Motor right side

DL 电机左侧 Motor left side

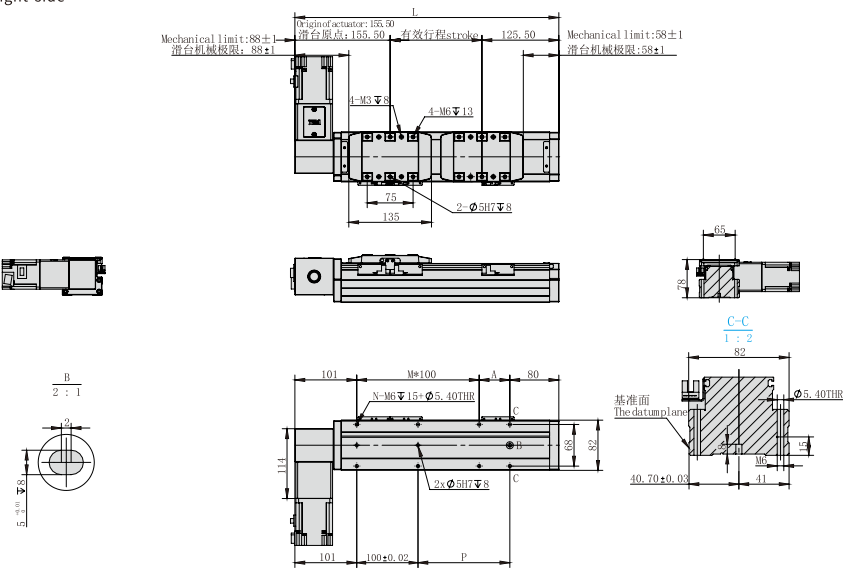
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	331	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831	1881	1931	1981
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
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	16	16	17	17
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	36	36	38	38
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
KG	3.15	3.42	3.69	3.96	4.23	4.5	4.77	5.04	5.31	5.58	5.85	6.12	6.39	6.66	6.93	7.2	7.47	7.74	8.01	8.28	8.55	8.82	9.09	9.36	9.63	9.9	10.2	10.4	10.7	11	11.3	11.5	11.8	12.1

DR 电机右侧 Motor right side

单位:Unit: mm

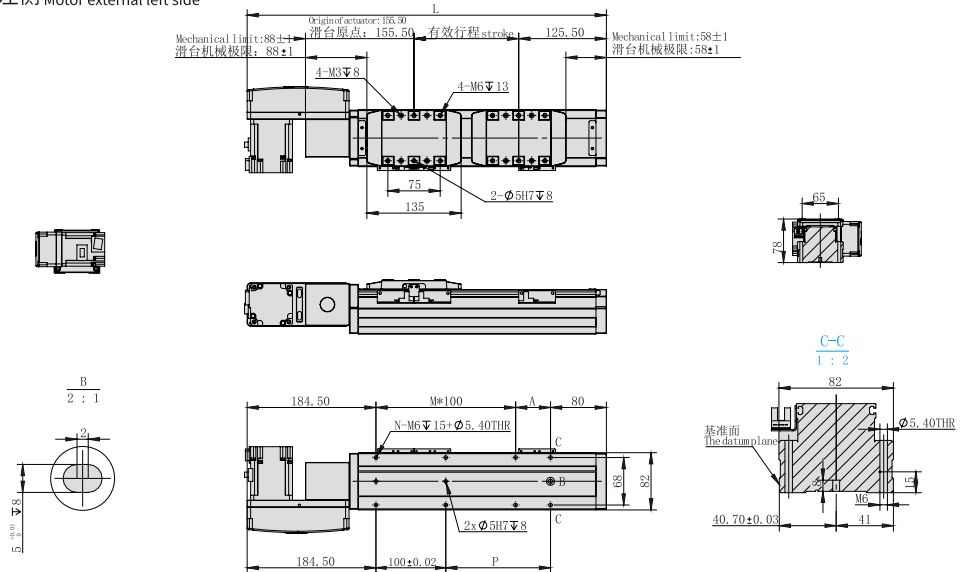


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	331	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831	1881	1931	1981
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
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	16	16	17	17
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	36	36	38	38
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
KG	3.15	3.42	3.69	3.96	4.23	4.5	4.77	5.04	5.31	5.58	5.85	6.12	6.39	6.66	6.93	7.2	7.47	7.74	8.01	8.28	8.55	8.82	9.09	9.36	9.63	9.9	10.2	10.4	10.7	11	11.3	11.5	11.8	12.1

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

QL 电机外置左侧 Motor external left side

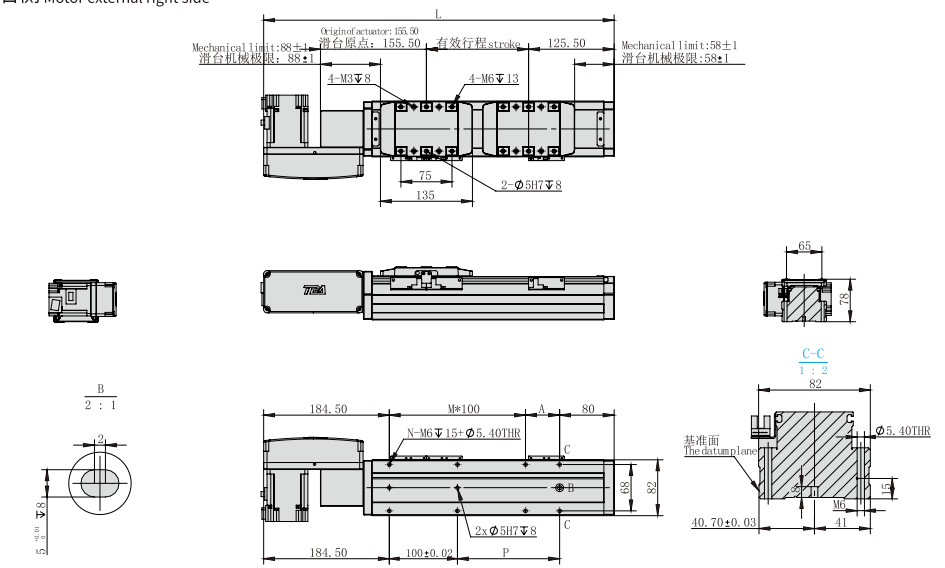
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5	1414.5	1464.5	1514.5	1564.5	1614.5	1664.5	1714.5	1764.5	1814.5	1864.5	1914.5	1964.5	2014.5	2064.5
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
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	16	16	17	17
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	36	36	38	38
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
KG	3.15	3.42	3.69	3.96	4.23	4.5	4.77	5.04	5.31	5.58	5.85	6.12	6.39	6.66	6.93	7.2	7.47	7.74	8.01	8.28	8.55	8.82	9.09	9.36	9.63	9.9	10.2	10.4	10.7	11	11.3	11.5	11.8	12.1

QR 电机外置右侧 Motor external right side

单位:Unit: mm



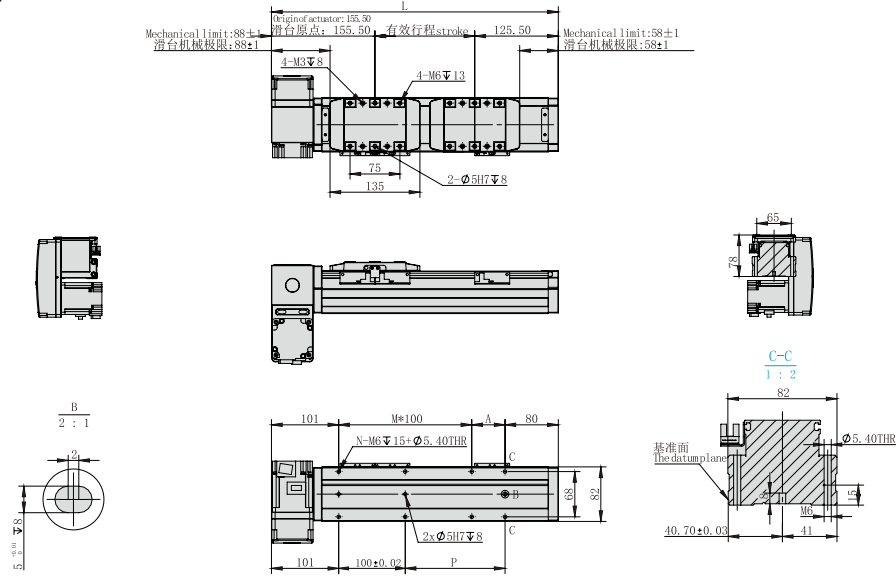
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5	1414.5	1464.5	1514.5	1564.5	1614.5	1664.5	1714.5	1764.5	1814.5	1864.5	1914.5	1964.5	2014.5	2064.5
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
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	16	16	17	17
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	36	36	38	38
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
KG	3.15	3.42	3.69	3.96	4.23	4.5	4.77	5.04	5.31	5.58	5.85	6.12	6.39	6.66	6.93	7.2	7.47	7.74	8.01	8.28	8.55	8.82	9.09	9.36	9.63	9.9	10.2	10.4	10.7	11	11.3	11.5	11.8	12.1



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

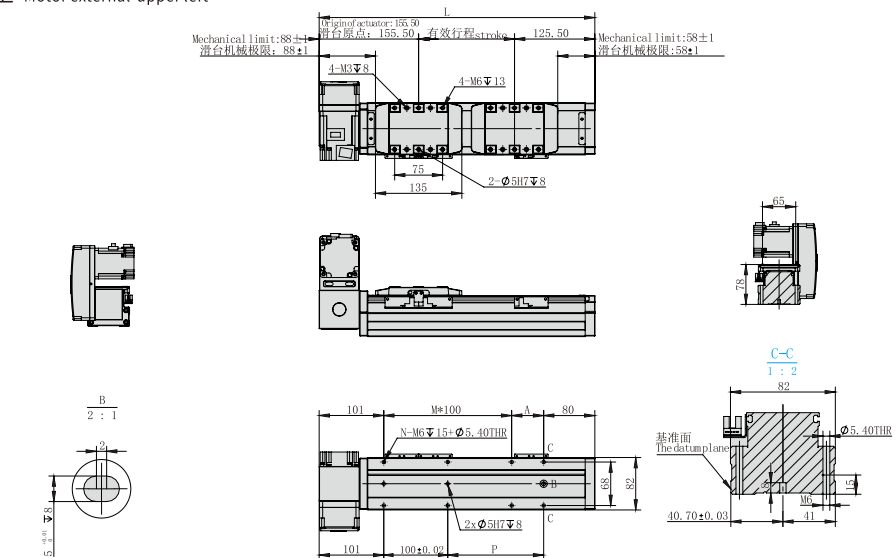
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	331	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831	1881	1931	1981
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
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	16	16	17	17
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	36	36	38	38
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
KG	3.15	3.42	3.69	3.96	4.23	4.5	4.77	5.04	5.31	5.58	5.85	6.12	6.39	6.66	6.93	7.2	7.47	7.74	8.01	8.28	8.55	8.82	9.09	9.36	9.63	9.9	10.2	10.4	10.7	11	11.3	11.5	11.8	12.1

LU 电机外置左上 Motor external upper left

单位:Unit: mm

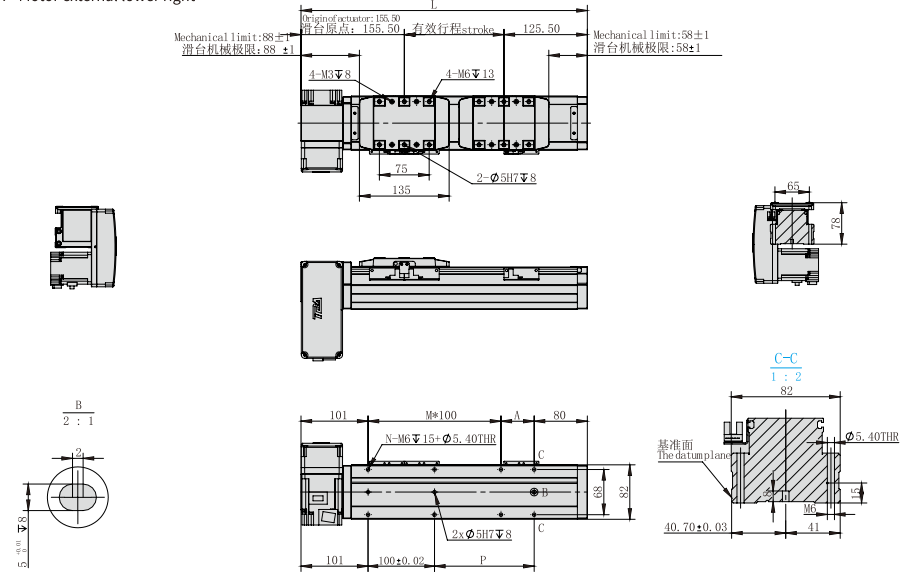


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	331	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831	1881	1931	1981
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
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	16	16	17	17
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	36	36	38	38
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
KG	3.15	3.42	3.69	3.96	4.23	4.5	4.77	5.04	5.31	5.58	5.85	6.12	6.39	6.66	6.93	7.2	7.47	7.74	8.01	8.28	8.55	8.82	9.09	9.36	9.63	9.9	10.2	10.4	10.7	11	11.3	11.5	11.8	12.1

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

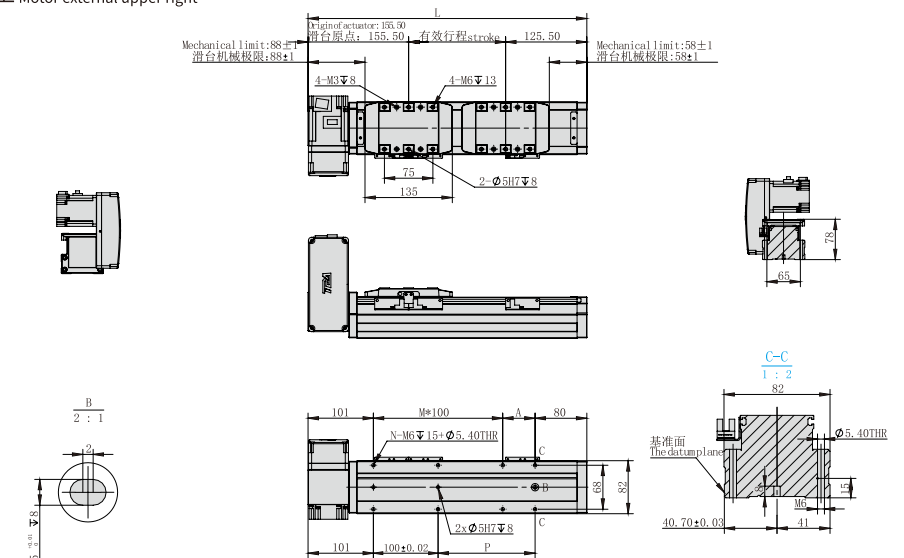
单位:Unit: mm



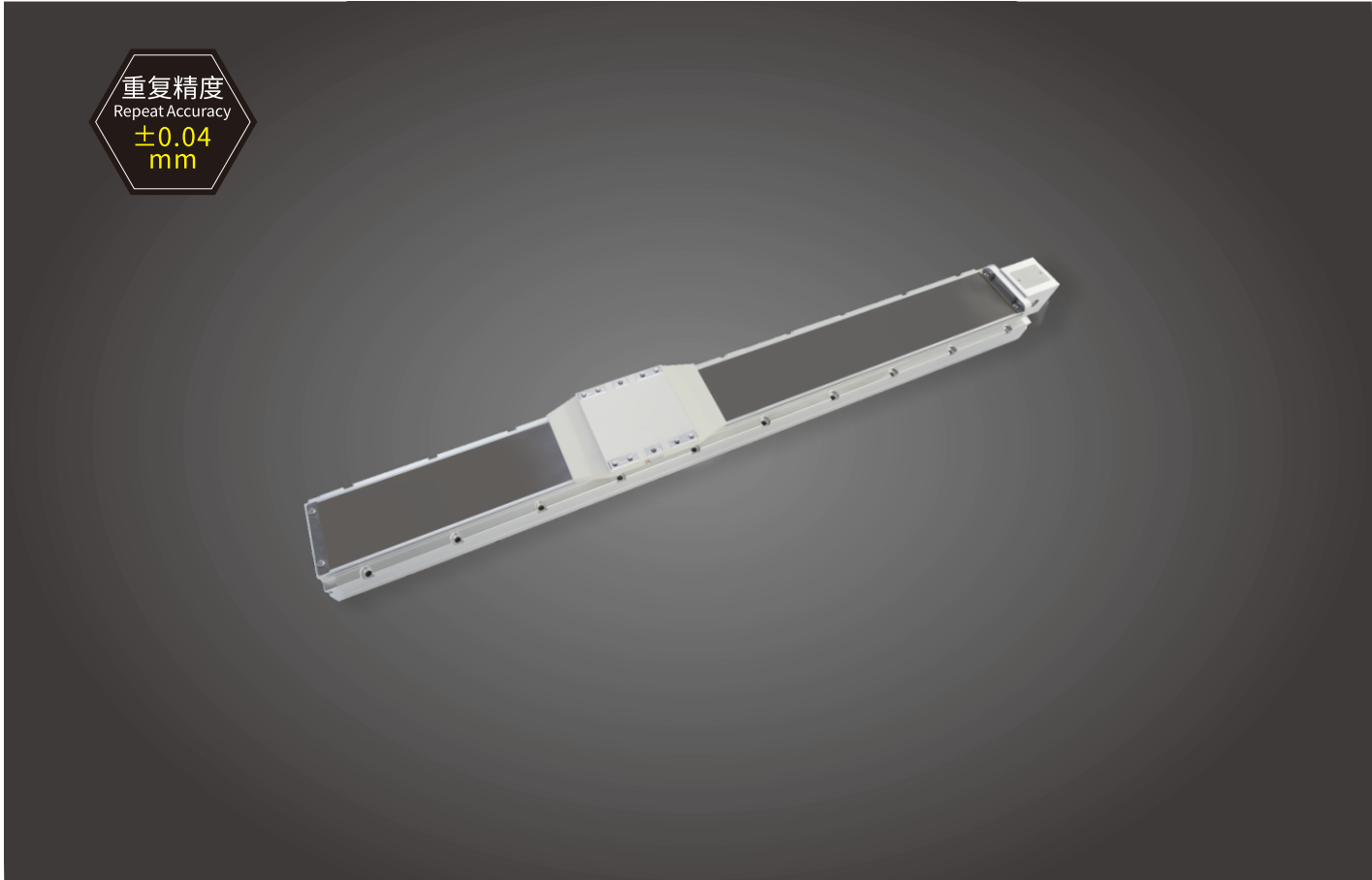
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	331	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831	1881	1931	1981
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
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	16	16	17	17
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	36	36	38	38
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
KG	3.15	3.42	3.69	3.96	4.23	4.5	4.77	5.04	5.31	5.58	5.85	6.12	6.39	6.66	6.93	7.2	7.47	7.74	8.01	8.28	8.55	8.82	9.09	9.36	9.63	9.9	10.2	10.4	10.7	11	11.3	11.5	11.8	12.1

RU 电机外置右上 Motor external upper right

单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	331	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531	1581	1631	1681	1731	1781	1831	1881	1931	1981
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
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	16	16	17	17
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	36	36	38	38
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
KG	3.15	3.42	3.69	3.96	4.23	4.5	4.77	5.04	5.31	5.58	5.85	6.12	6.39	6.66	6.93	7.2	7.47	7.74	8.01	8.28	8.55	8.82	9.09	9.36	9.63	9.9	10.2	10.4	10.7	11	11.3	11.5	11.8	12.1



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
1700mm

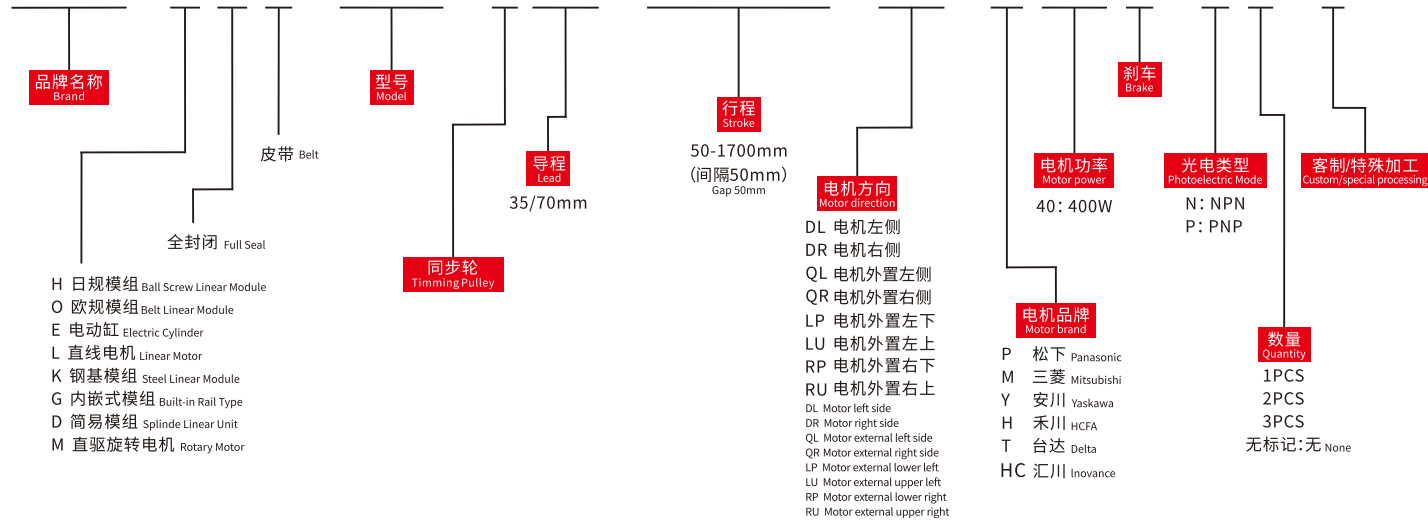
最高速度
Max Speed
3500mm/s

马达容量
Motor Output
400W

皮带宽度
Belt width
20 mm

型号表达方式 Ordering method

TPA-GCB-120-P70-L1700-LP-HC40B-N3-F

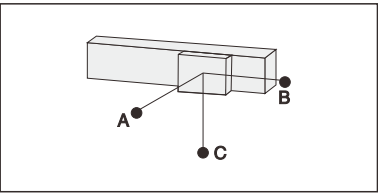
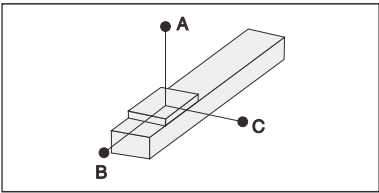


产品性能参数如下 Product performance parameters are as follows

规格 Spec	重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.04	
	导程 (mm) Lead (mm)	35	70
	最高速度 (mm/s) Maximum speed (mm/s)	1750	3500
	最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	25
		垂直使用 (kg) Vertical(kg)	-
	定格推力 (N) Rated thrust (N)	100	
部品 Parts	标准行程 (mm) Stroke pitch (mm)	50~1700mm/50 间隔 50 mm Pitch	
	AC伺服马达容量 (W) AC servo motor output (w)	400	
	皮带宽度 (mm) Belt width(mm)	20	
	原点感应器 Original Sense	外挂 Outside	TPA-N674-WR

※1 马达加减速设定0.4秒。
※1 Acceleration and deceleration value is set 0.4 second.

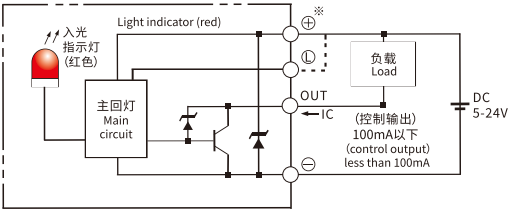
容许负载力矩表 N.m Allowable overhang



(单位Unit:mm)				
水平安装 Horizontal installation	A	B	C	
行程 35/70 Lead	10kg	1794	688	538
	20kg	858	324	253
	25kg	670	251	197

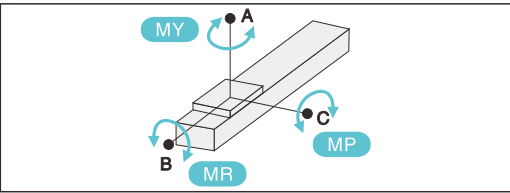
(单位Unit:mm)				
侧面安装 Side mounting	A	B	C	
行程 35/70 Lead	15kg	348	446	1170
	18kg	285	365	961
	25kg	197	251	670

感应器连接图<原点及端点> Sensor layout



GCR
GCB
GCBS
GCRS
参考资料 Reference data

静态容许负载惯量 Static loading moment



(单位Unit:N.m)	
MY	606
MP	606
MR	1168

*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

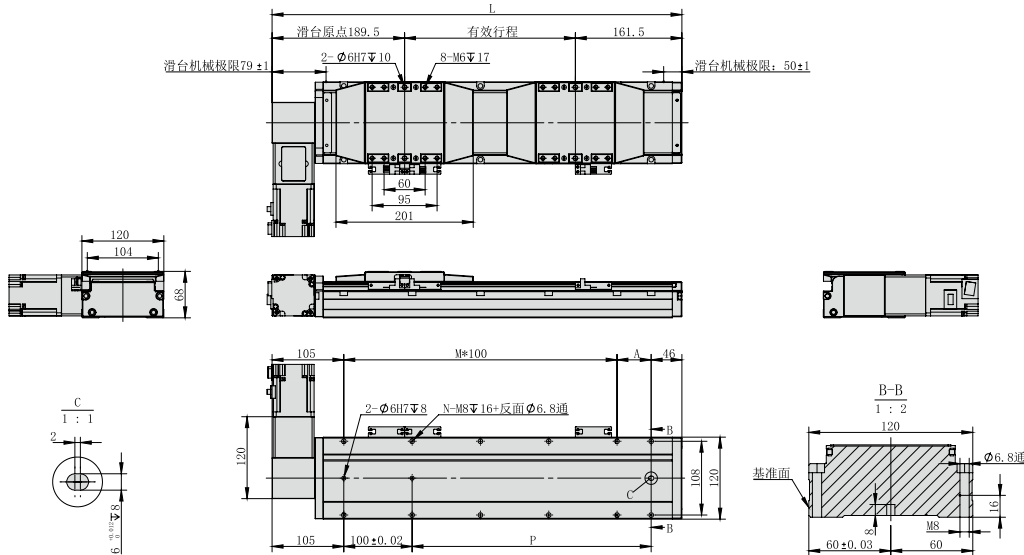
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	400	220	HG-KR43	MR-J4-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMD042G1U	MADHT2510
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECMA-C20604ES	ASD-B20421-B



电机左侧/电机右侧
Motor left side/Motor right side

DL 电机左侧 Motor left side

单位:Unit: mm

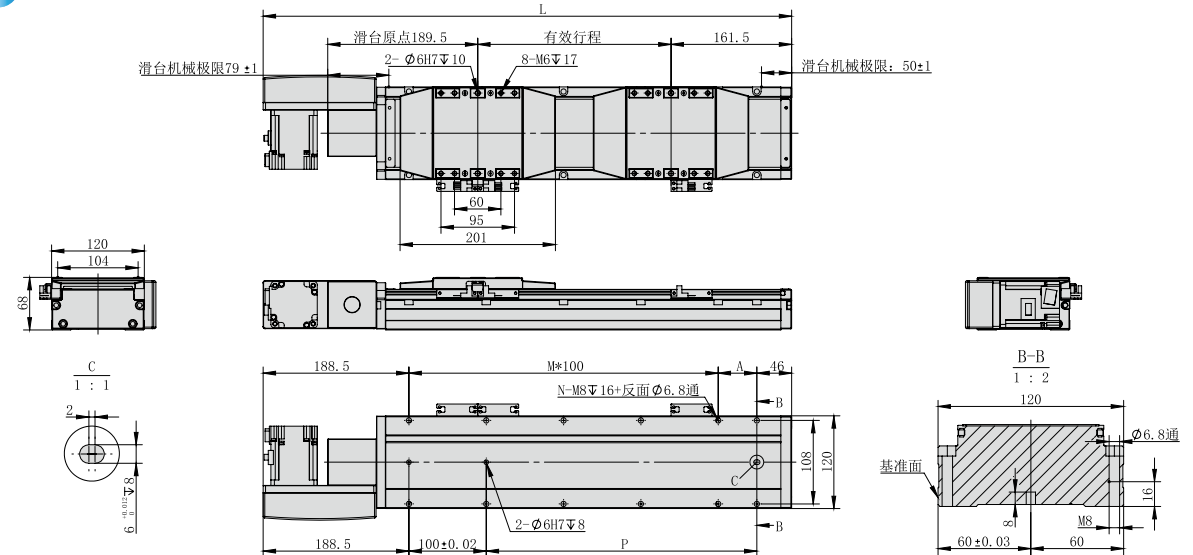


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051
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
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
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
P	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
KG	5.3	5.65	6	6.35	6.7	7.05	7.4	7.75	8.1	8.45	8.8	9.15	9.5	9.85	10.2	10.55	10.9	11.25	11.6	11.95	12.3	12.65	13	13.35	13.7	14.05	14.4	14.75	15.1	15.45	15.8	16.15	16.5	16.85

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

QL 电机外置左侧 Motor external left side

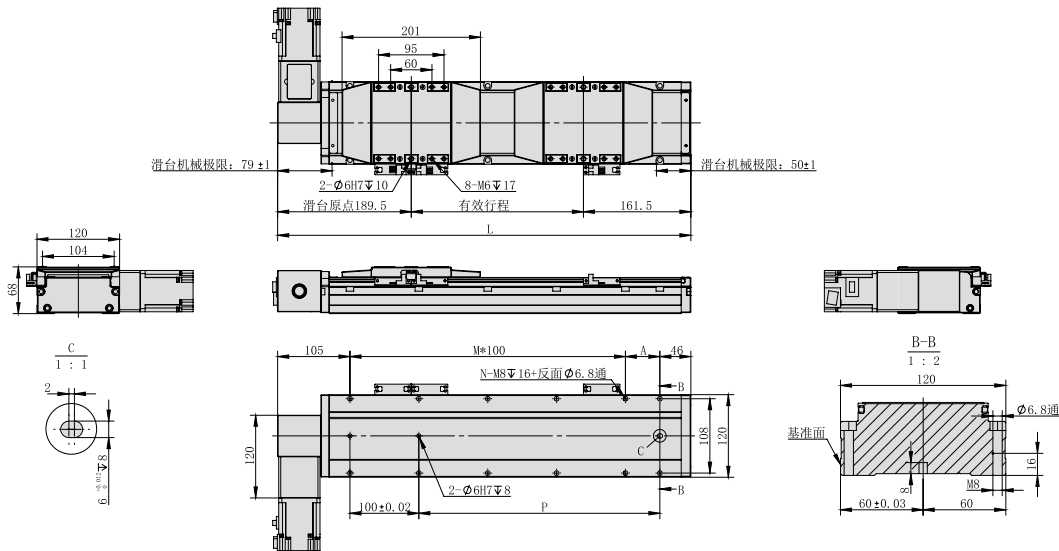
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	484.5	534.5	584.5	634.5	684.5	734.5	784.5	834.5	884.5	934.5	984.5	1034.5	1084.5	1134.5	1184.5	1234.5	1284.5	1334.5	1384.5	1434.5	1484.5	1534.5	1584.5	1634.5	1685	1734.5	1784.5	1834.5	1884.5	1934.5	1984.5	2034.5	2084.5	2134.5
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
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
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
P	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
KG	5.7	6.05	6.4	6.75	7.1	7.45	7.8	8.15	8.5	8.85	9.2	9.55	9.9	10.25	10.6	10.95	11.3	11.65	12	12.35	12.7	13.05	13.4	13.75	14.1	14.45	14.8	15.15	15.5	15.85	16.2	16.55	16.9	17.25

DR 电机右侧 Motor right side

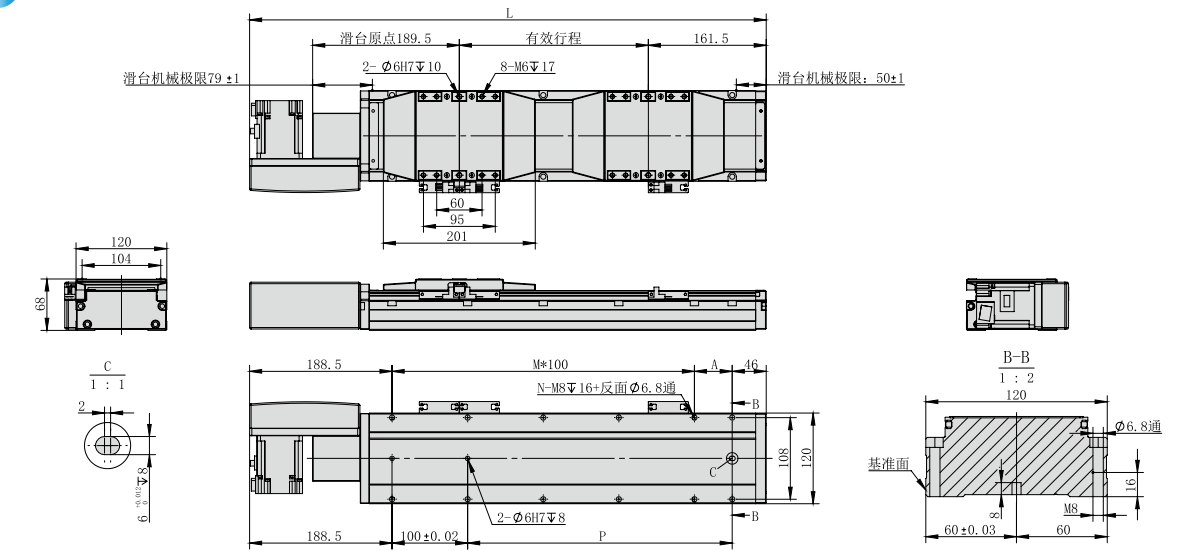
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051
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
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
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
P	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
KG	5.3	5.65	6	6.35	6.7	7.05	7.4	7.75	8.1	8.45	8.8	9.15	9.5	9.85	10.2	10.55	10.9	11.25	11.6	11.95	12.3	12.65	13	13.35	13.7	14.05	14.4	14.75	15.1	15.45	15.8	16.15	16.5	16.85

QR 电机外置右侧 Motor external right side

单位:Unit: mm



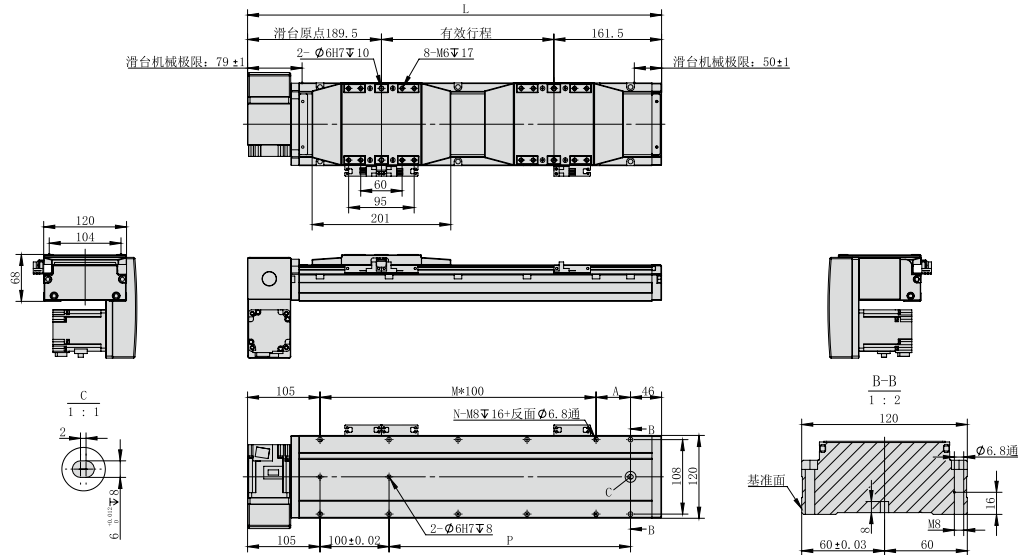
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	484.5	534.5	584.5	634.5	684.5	734.5	784.5	834.5	884.5	934.5	984.5	1034.5	1084.5	1134.5	1184.5	1234.5	1284.5	1334.5	1384.5	1434.5	1484.5	1534.5	1584.5	1634.5	1685	1734.5	1784.5	1834.5	1884.5	1934.5	1984.5	2034.5	2084.5	2134.5
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
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
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
P	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
KG	5.7	6.05	6.4	6.75	7.1	7.45	7.8	8.15	8.5	8.85	9.2	9.55	9.9	10.25	10.6	10.95	11.3	11.65	12	12.35	12.7	13.05	13.4	13.75	14.1	14.45	14.8	15.15	15.5	15.85	16.2	16.55	16.9	17.25



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

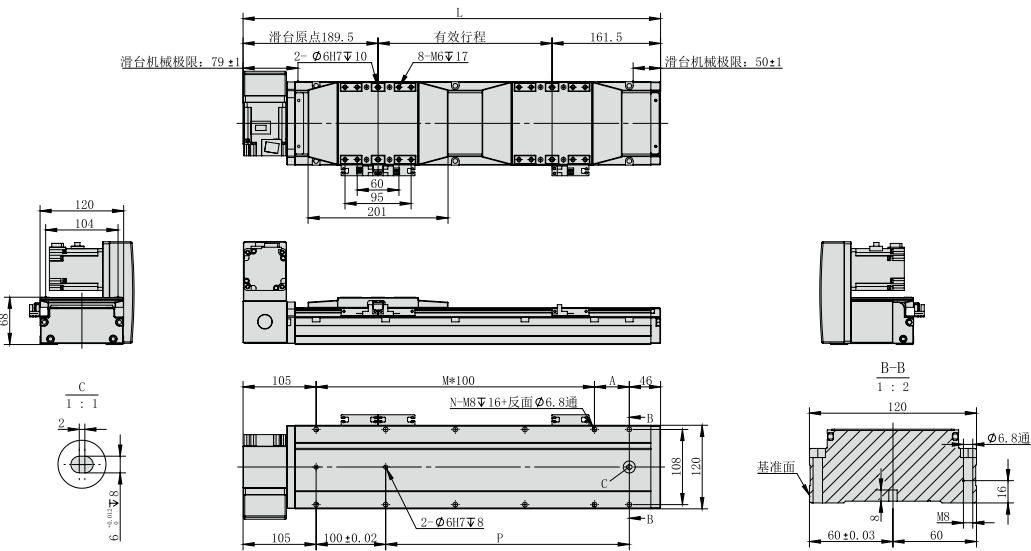
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051
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
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
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
P	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
KG	5.7	6.05	6.4	6.75	7.1	7.45	7.8	8.15	8.5	8.85	9.2	9.55	9.9	10.25	10.6	10.95	11.3	11.65	12	12.35	12.7	13.05	13.4	13.75	14.1	14.45	14.8	15.15	15.5	15.85	16.2	16.55	16.9	17.25

LU 电机外置左上 Motor external upper left

单位:Unit: mm

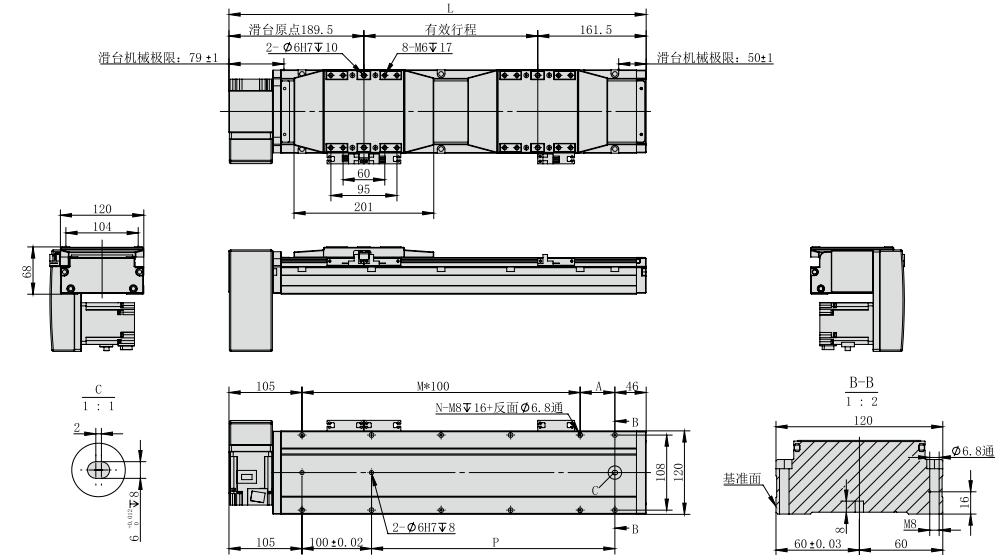


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051
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
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
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
P	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
KG	5.7	6.05	6.4	6.75	7.1	7.45	7.8	8.15	8.5	8.85	9.2	9.55	9.9	10.25	10.6	10.95	11.3	11.65	12	12.35	12.7	13.05	13.4	13.75	14.1	14.45	14.8	15.15	15.5	15.85	16.2	16.55	16.9	17.25

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

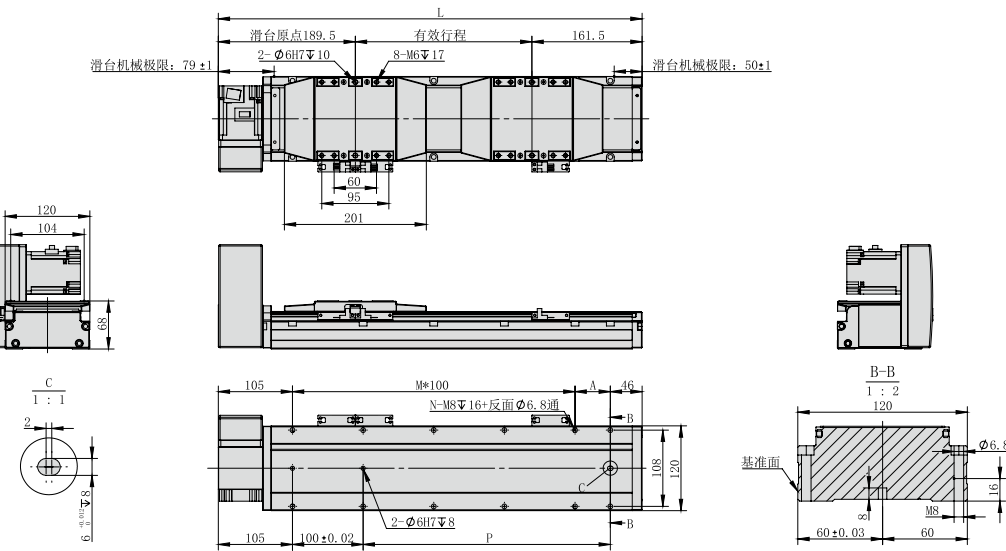
单位:Unit: mm



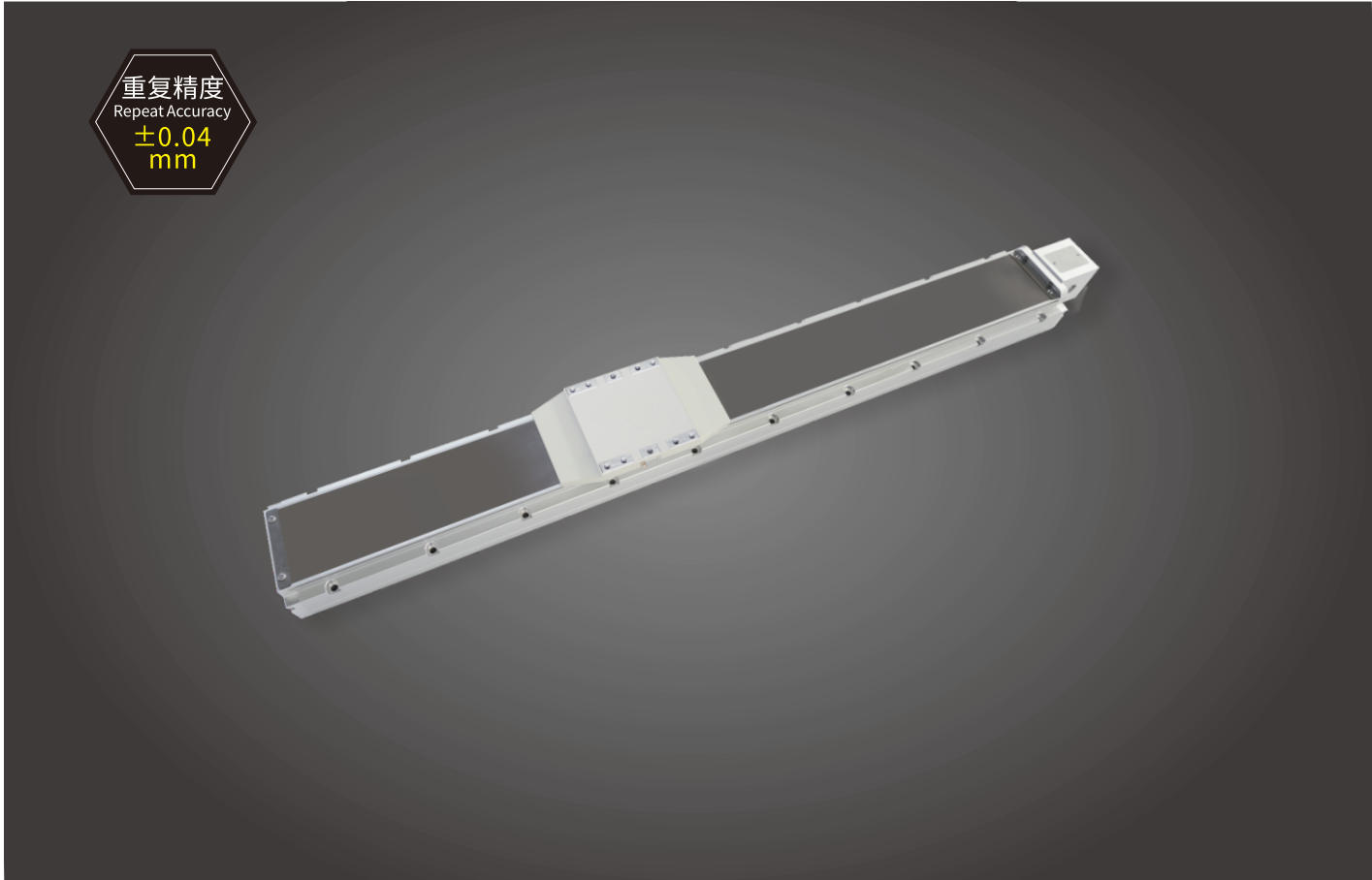
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051
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
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
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
P	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
KG	5.7	6.05	6.4	6.75	7.1	7.45	7.8	8.15	8.5	8.85	9.2	9.55	9.9	10.25	10.6	10.95	11.3	11.65	12	12.35	12.7	13.05	13.4	13.75	14.1	14.45	14.8	15.15	15.5	15.85	16.2	16.55	16.9	17.25

RU 电机外置右上 Motor external upper right

单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
L	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051
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
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
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
P	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
KG	5.7	6.05	6.4	6.75	7.1	7.45	7.8	8.15	8.5	8.85	9.2	9.55	9.9	10.25	10.6	10.95	11.3	11.65	12	12.35	12.7	13.05	13.4	13.75	14.1	14.45	14.8	15.15	15.5	15.85	16.2	16.55	16.9	17.25



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
1600mm

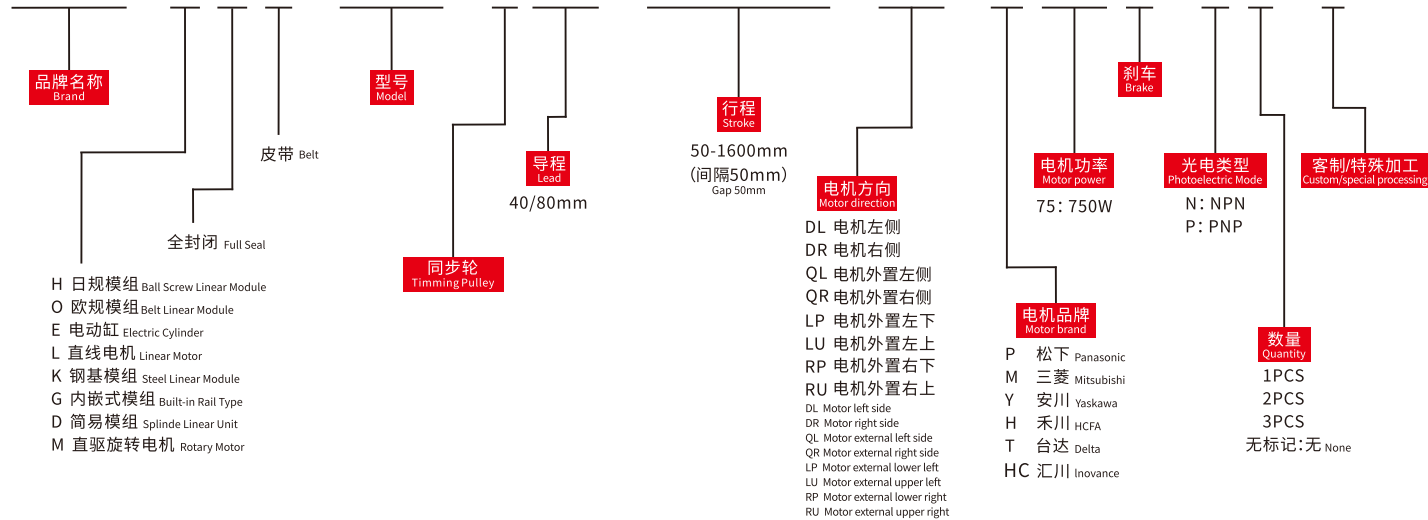
最高速度
Max Speed
4000mm/s

马达容量
Motor Output
750W

皮带宽度
Belt width
30 mm

型号表达方式 Ordering method

TPA-GCB-150-P80-L1600-LP-HC75B-N3-F

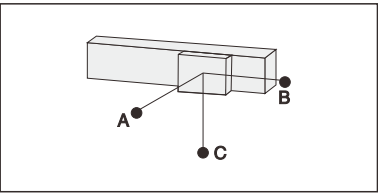
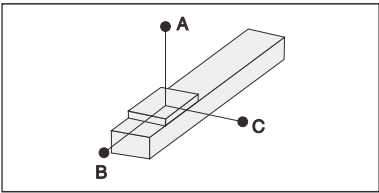


产品性能参数如下 Product performance parameters are as follows

规格 Spec	重复定位精度 (mm)	Repeated positioning accuracy (mm)	±0.04	
	导程 (mm)	Lead (mm)	40	80
	最高速度 (mm/s)	Maximum speed (mm/s)	2000	4000
	最大可搬重量 Maximum Payload	水平使用 (kg)	30	
		垂直使用 (kg)	-	
	定格推力 (N)	Rated thrust (N)	100	
部品 Parts	标准行程 (mm)	Stroke pitch (mm)	50~1600mm/50 间隔 50 mm Pitch	
	AC伺服马达容量 (W)	AC servo motor output (w)	750	
	皮带宽度 (mm)	Belt width(mm)	30	
	原点感应器 Original Sense	外挂 Outside	TPA-N674-WR	

※1 马达加减速设定0.4秒。
※1 Acceleration and deacceleration value is set 0.4 second.

容许负载力矩表 N.m Allowable overhang



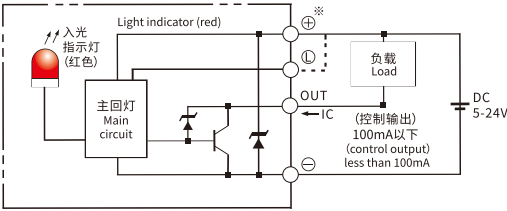
(单位Unit:mm)

水平安装 Horizontal installation	A	B	C
导程 Lead			
10kg	1794	688	538
20kg	858	324	253
25kg	670	251	197

(单位Unit:mm)

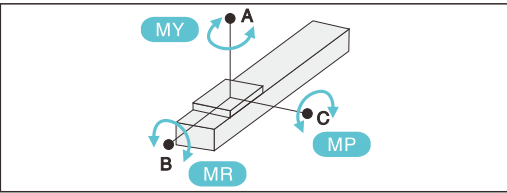
侧面安装 Side mounting	A	B	C
导程 Lead			
15kg	348	446	1170
18kg	285	365	961
25kg	197	251	670

感应器连接图<原点及端点> Sensor layout



GCR
GCB
GCBS
GCRS
参考资料 Reference data

静态容许负载惯量 Static loading moment



(单位Unit:N.m)

MY	886
MP	826
MR	1500

*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

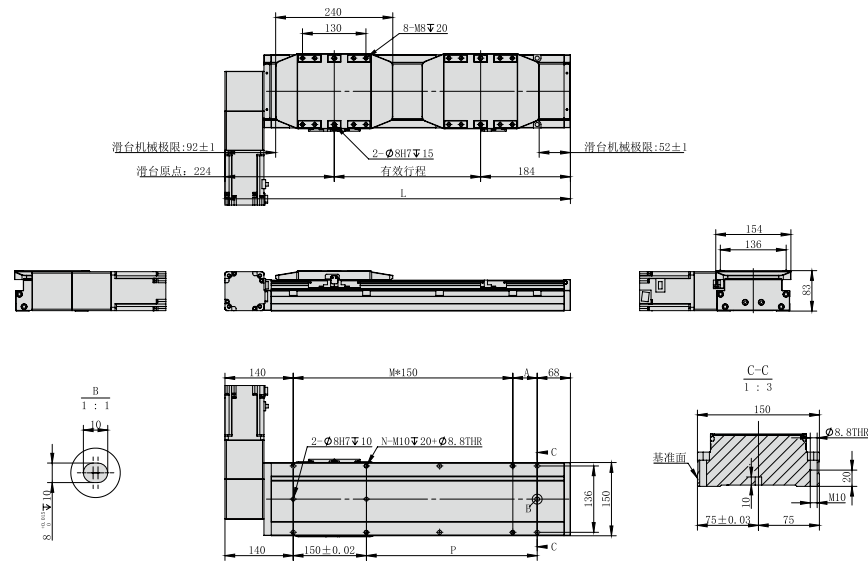
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	750	220	HG-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMD082G1U	MADHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECMA-C20807ES	ASD-B20721-B



电机左侧/电机右侧
Motor left side/Motor right side

DL 电机左侧 Motor left side

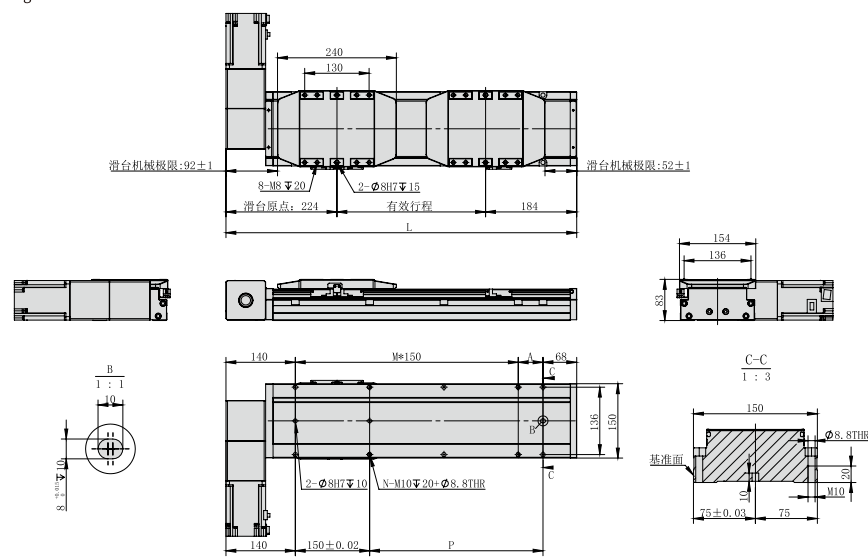
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
L	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908	1958	2008
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
KG	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1

DR 电机右侧 Motor right side

单位:Unit: mm

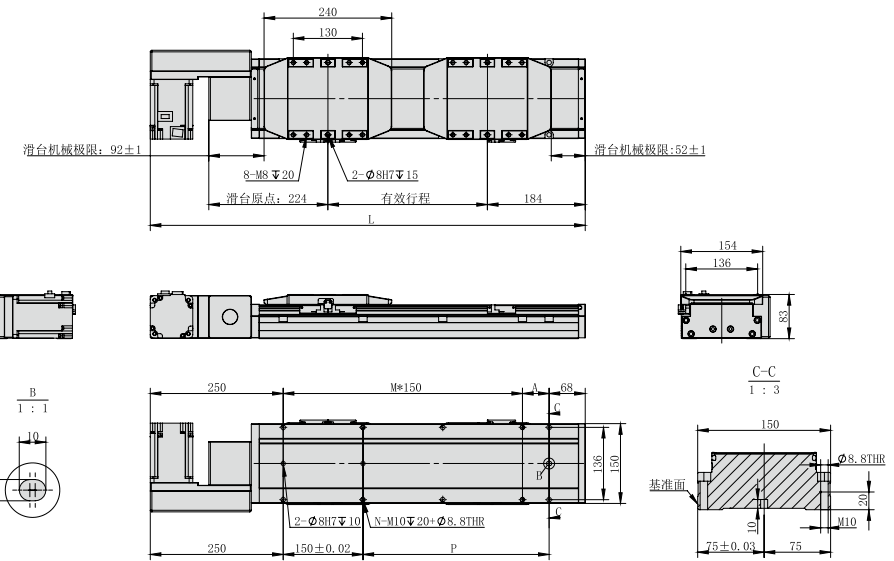


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
L	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908	1958	2008
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
KG	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1

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

QL 电机外置左侧 Motor external left side

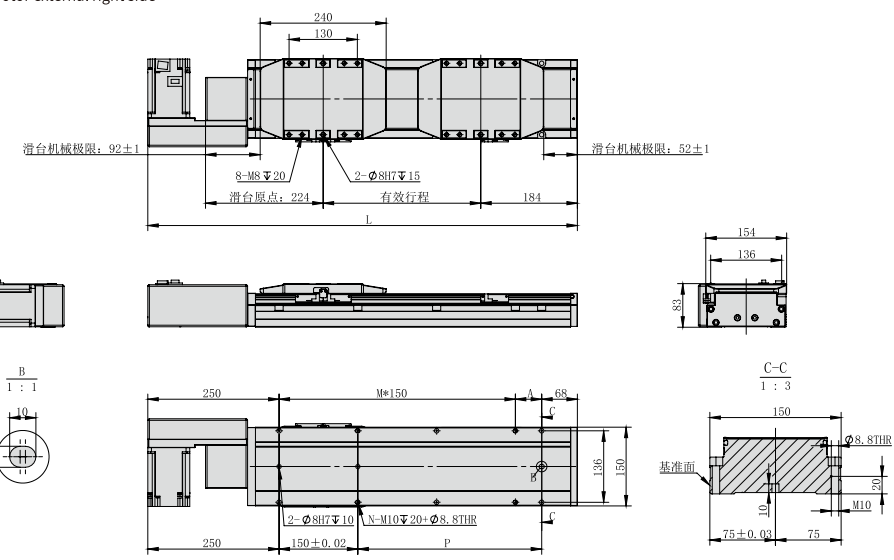
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
L	568	618	668	718	768	818	868	918	968	1018	1068	1118	1168	1218	1268	1318	1368	1418	1468	1518	1568	1618	1668	1718	1768	1818	1868	1918	1968	2018	2068	2118
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
KG	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

QR 电机外置右侧 Motor external right side

单位:Unit: mm

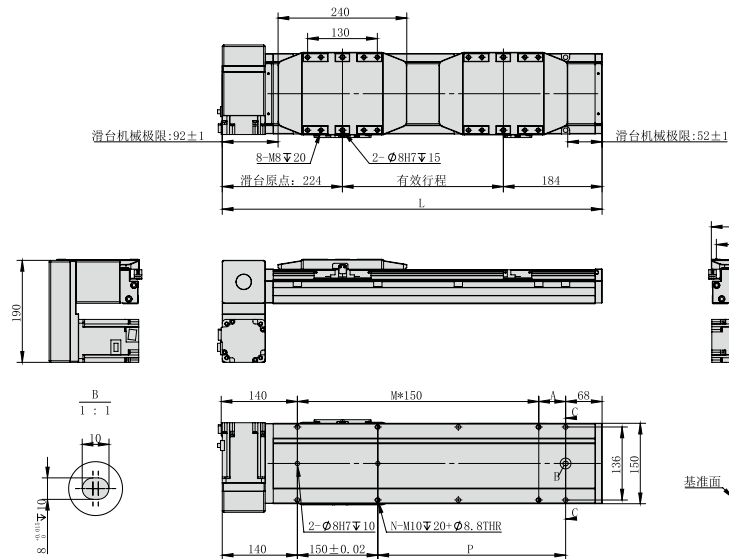


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
L	568	618	668	718	768	818	868	918	968	1018	1068	1118	1168	1218	1268	1318	1368	1418	1468	1518	1568	1618	1668	1718	1768	1818	1868	1918	1968	2018	2068	2118
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
KG	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

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

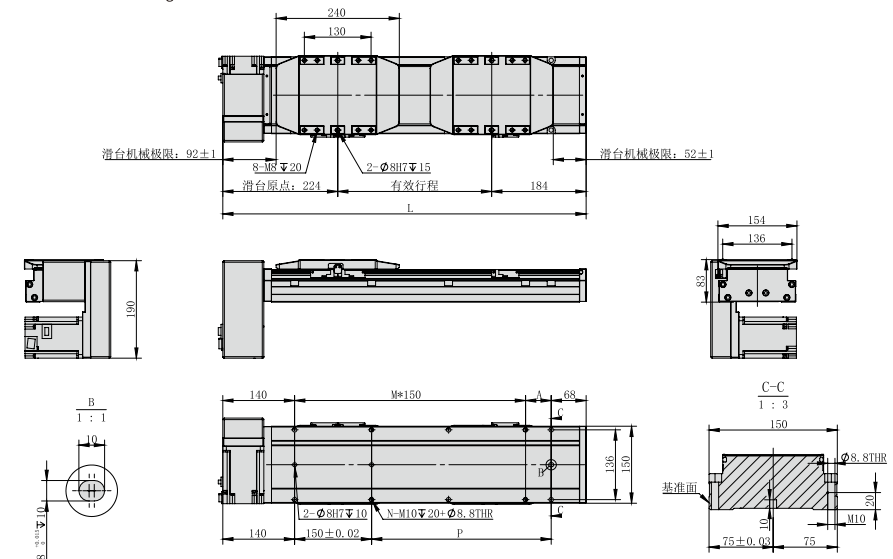


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
L	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908	1958	2008
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
KG	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

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

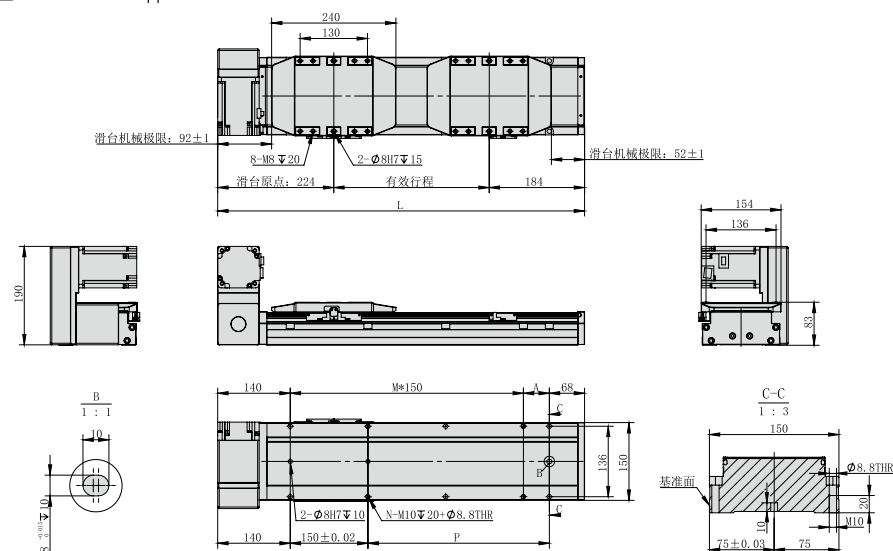
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
L	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908	1958	2008
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
KG	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

LU 电机外置左上 Motor external upper left

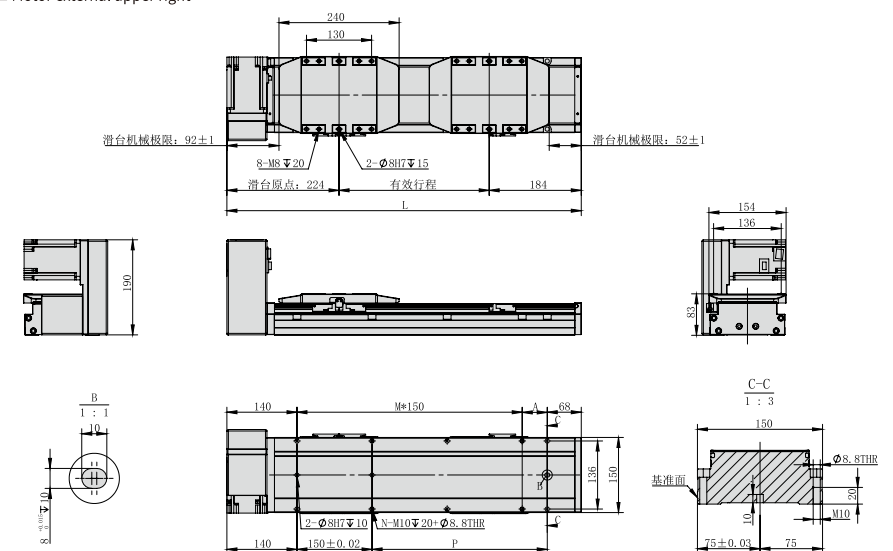
单位:Unit:mm



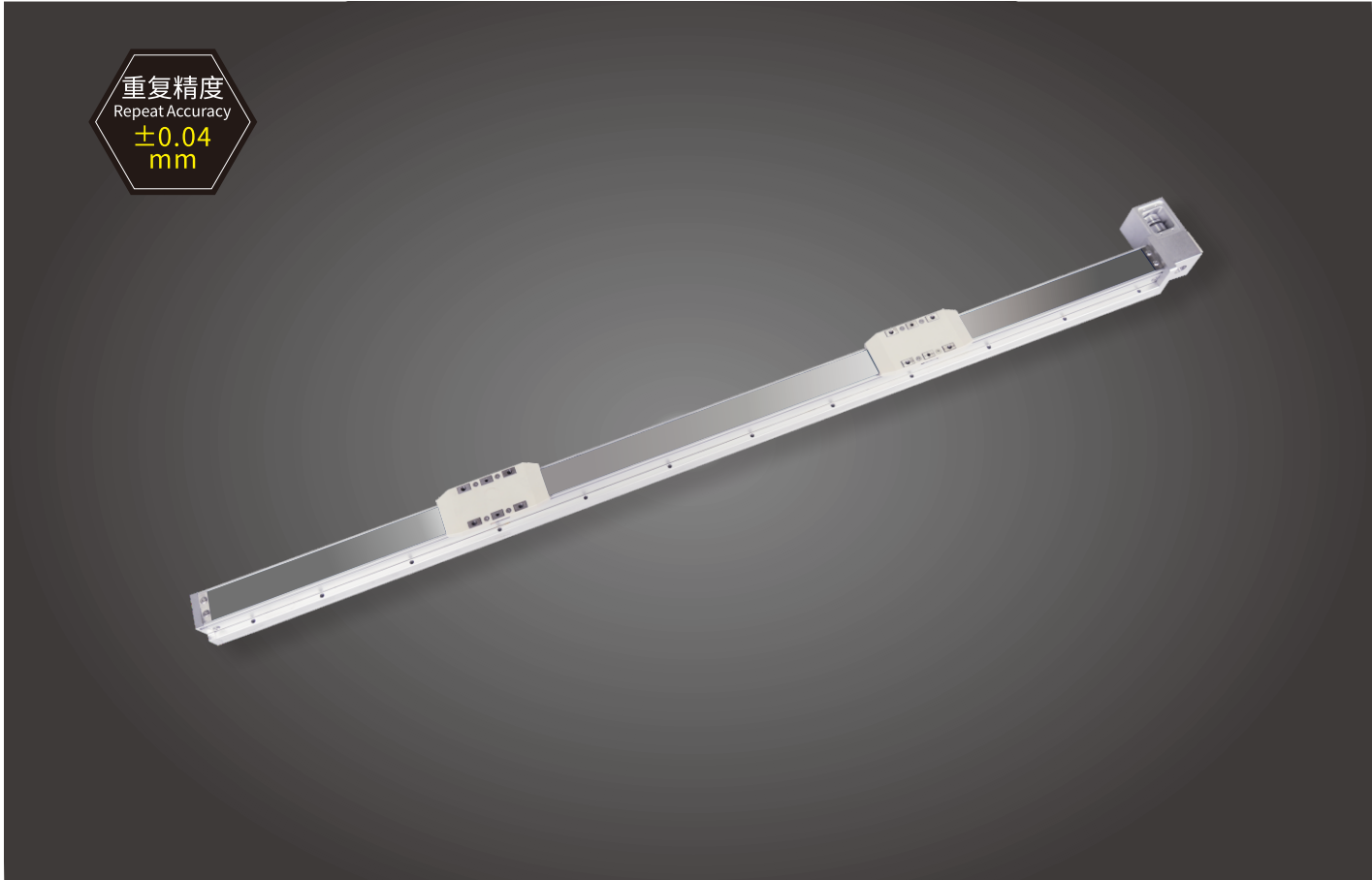
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
L	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908	1958	2008
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
KG	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

RU 电机外置右上 Motor external upper right

单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
L	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908	1958	2008
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11
N	6	6	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
KG	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



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

650mm

最高速度
Max Speed

2100mm/s

马达容量
Motor Output

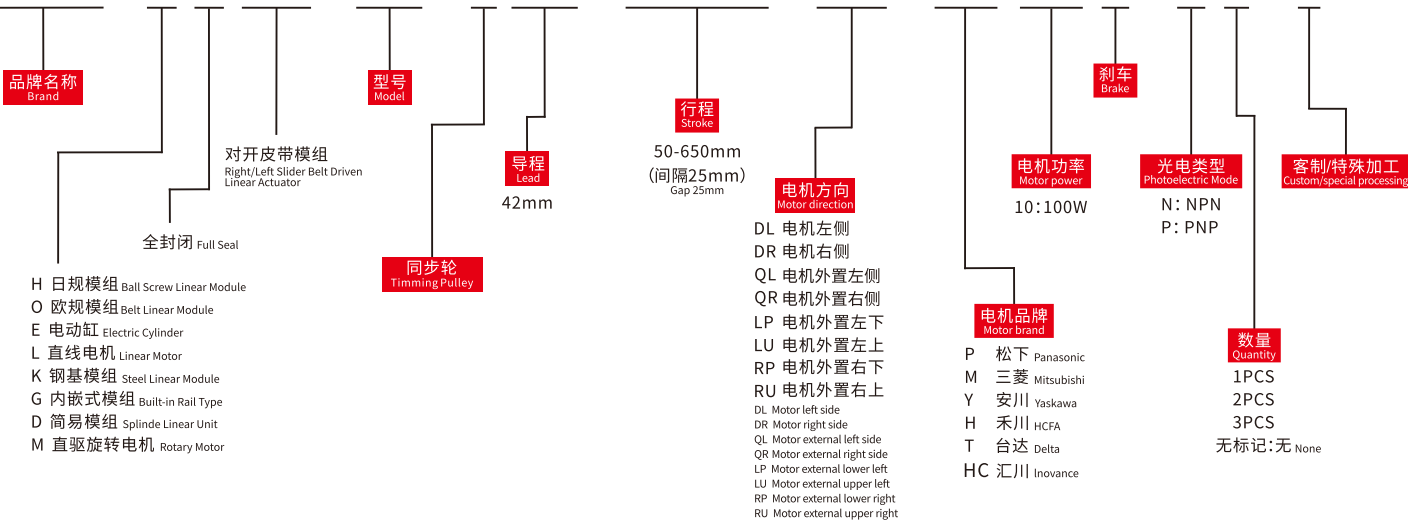
100W

皮带宽度
Belt width

9mm

型号表达方式 Ordering method

TPA-GCBS-50-P42-L650-DL-HC10B-N3-F

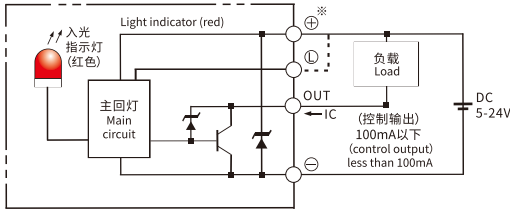


产品性能参数如下 Product performance parameters are as follows

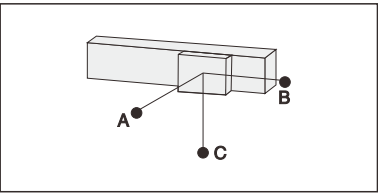
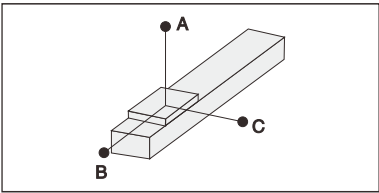
规格 Spec	重复定位精度 (mm) Repeated positioning accuracy (mm)		±0.04
	导程 (mm) Lead (mm)		42
	最高速度 (mm/s) Maximum speed (mm/s)		2100
	最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	3 (双滑座)
		垂直使用 (kg) Vertical (kg)	-
	定格推力 (N) Rated thrust (N)		48
部品 Parts	标准行程 (mm) Stroke pitch (mm)		50~650mm/25 间隔 25mm Pitch
	AC伺服马达容量 (W) AC servo motor output (w)		100
	皮带宽度 (mm) Belt width (mm)		9
	原点感应器 Original Sense	外挂 Outside	TPA-N674-WR

※1 马达加减速设定0.4秒。
※1 Acceleration and deceleration value is set 0.4 second.

感应器连接图<原点及端点> Sensor layout



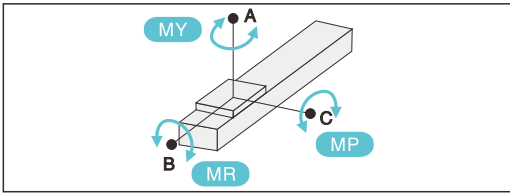
容许负载力矩表 N.m Allowable overhang



(单位Unit:mm)				
水平安装 Horizontal installation		A	B	C
导程 42 Lead	3kg	320	120	130
	-	-	-	-
	-	-	-	-

(单位Unit:mm)				
侧面安装 Side mounting		A	B	C
导程 42 Lead	3kg	130	120	320
	-	-	-	-
	-	-	-	-

静态容许负载惯量 Static loading moment



(単位Unit:N.m)	
MY	103
MP	103
MR	144

*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)	100	220	HG-KR13	MR-J4-10A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	100	220	MSMD012G1U	MADHT1505
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	100	220	ECMA-C20401ES	ASD-B20121-B

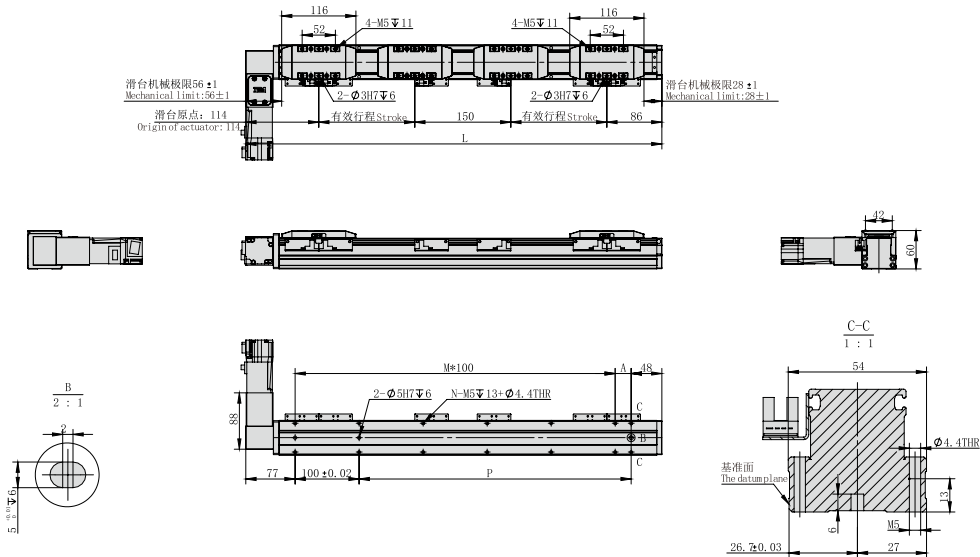


电机左侧/电机右侧

Motor left side/Motor right side

DL 电机左侧 Motor left side

单位:Unit: mm



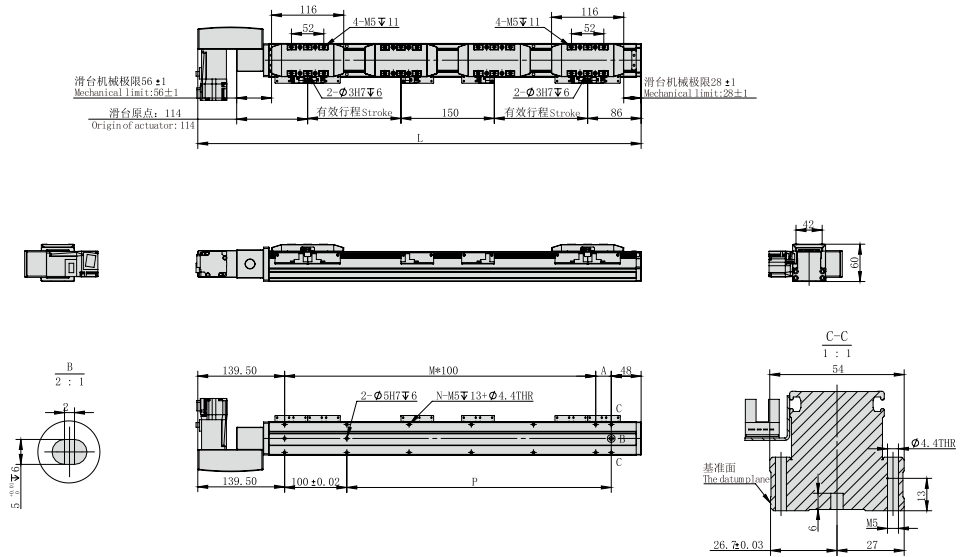
有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	570	600	625	650
L	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25
M	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
N	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
P	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425
KG	1.71	1.82	1.93	2.04	2.15	2.26	2.37	2.48	2.59	2.7	2.81	2.92	3.03	3.14	3.25	3.36	3.47	3.58	3.69	3.8	3.91	4.02	4.13	4.24	4.35

电机外置左侧/电机外置右侧

Motor external left side/Motor external right side

QL 电机外置左侧 Motor external left side

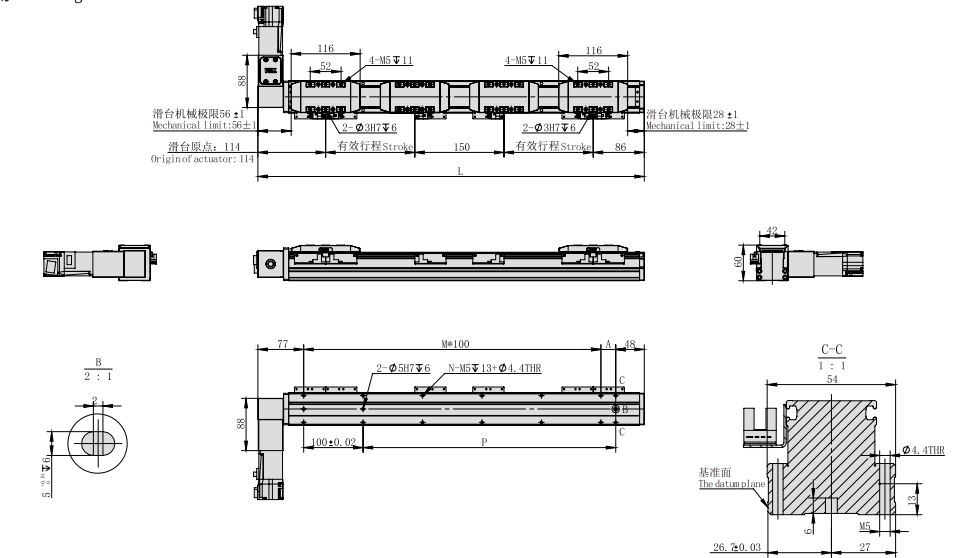
单位:Unit: mm



有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	570	600	625	650
L	512.5	562.5	612.5	662.5	712.5	762.5	812.5	862.5	912.5	962.5	1012.5	1062.5	1112.5	1162.5	1212.5	1262.5	1312.5	1362.5	1412.5	1462.5	1512.5	1562.5	1612.5	1662.5	1712.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25
M	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
N	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
P	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425
KG	1.71	1.82	1.93	2.04	2.15	2.26	2.37	2.48	2.59	2.7	2.81	2.92	3.03	3.14	3.25	3.36	3.47	3.58	3.69	3.8	3.91	4.02	4.13	4.24	4.35

DR 电机右侧 Motor right side

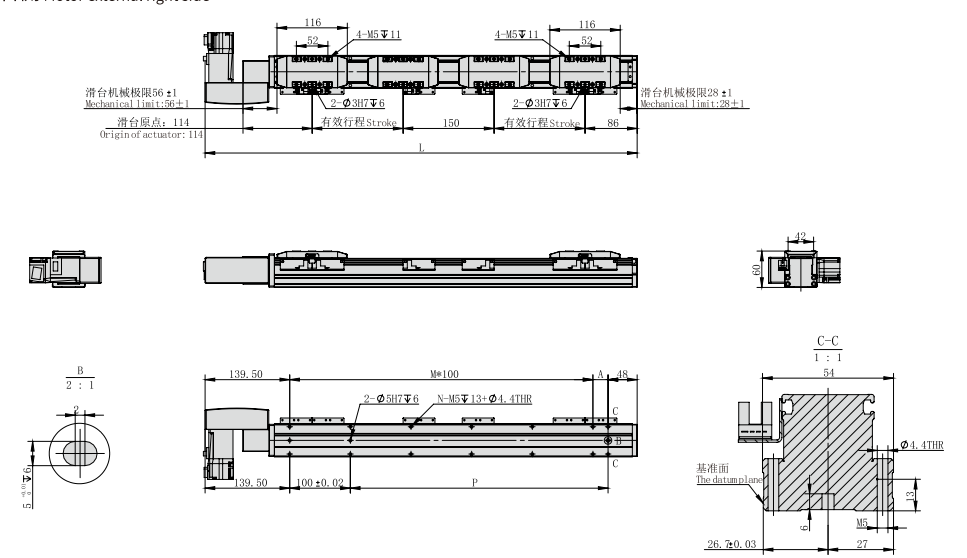
单位:Unit: mm



有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	570	600	625	650
L	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
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25
M	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
N	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
P	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425
KG	1.71	1.82	1.93	2.04	2.15	2.26	2.37	2.48	2.59	2.7	2.81	2.92	3.03	3.14	3.25	3.36	3.47	3.58	3.69	3.8	3.91	4.02	4.13	4.24	4.35

电机外置右侧 Motor external right side

单位:Unit: mm



有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	570	600	625	650
L	512.5	562.5	612.5	662.5	712.5	762.5	812.5	862.5	912.5	962.5	1012.5	1062.5	1112.5	1162.5	1212.5	1262.5	1312.5	1362.5	1412.5	1462.5	1512.5	1562.5	1612.5	1662.5	1712.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25
M	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
N	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
P	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425
KG	1.71	1.82	1.93	2.04	2.15	2.26	2.37	2.48	2.59	2.7	2.81	2.92	3.03	3.14	3.25	3.36	3.47	3.58	3.69	3.8	3.91	4.02	4.13	4.24	4.35

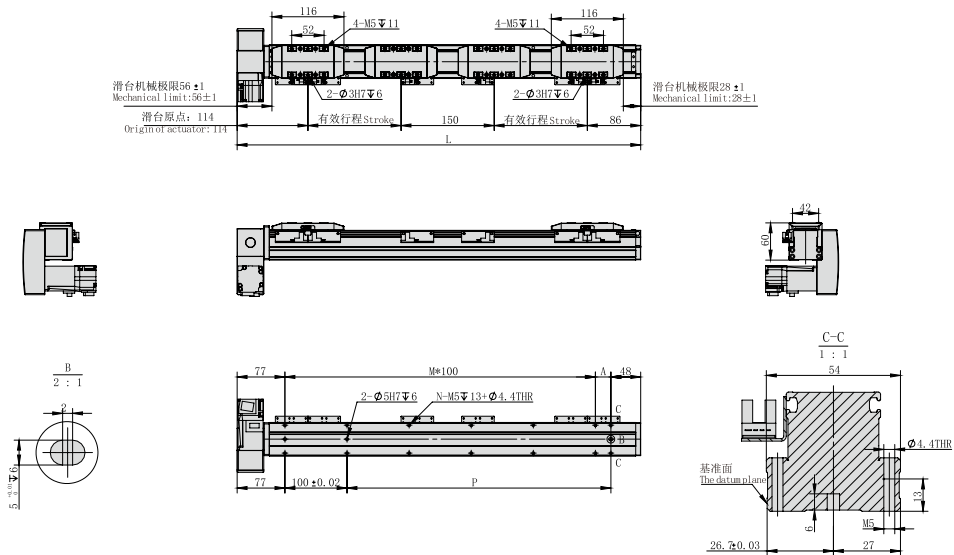


电机外置左下/电机外置左上

Motor external lower left/Motor external upper left

LP 电机外置左下 Motor external lower left

单位:Unit: mm



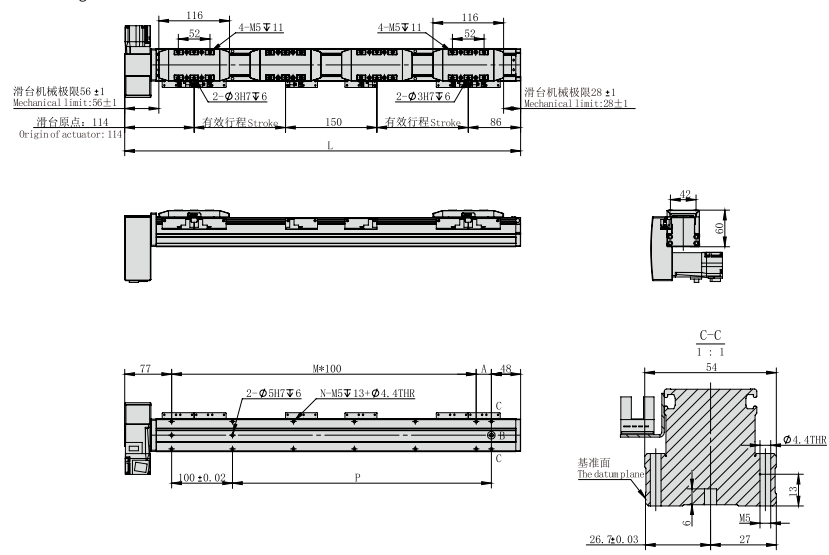
有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	570	600	625	650
L	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25
M	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
N	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
P	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425
KG	1.71	1.82	1.93	2.04	2.15	2.26	2.37	2.48	2.59	2.7	2.81	2.92	3.03	3.14	3.25	3.36	3.47	3.58	3.69	3.8	3.91	4.02	4.13	4.24	4.35

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

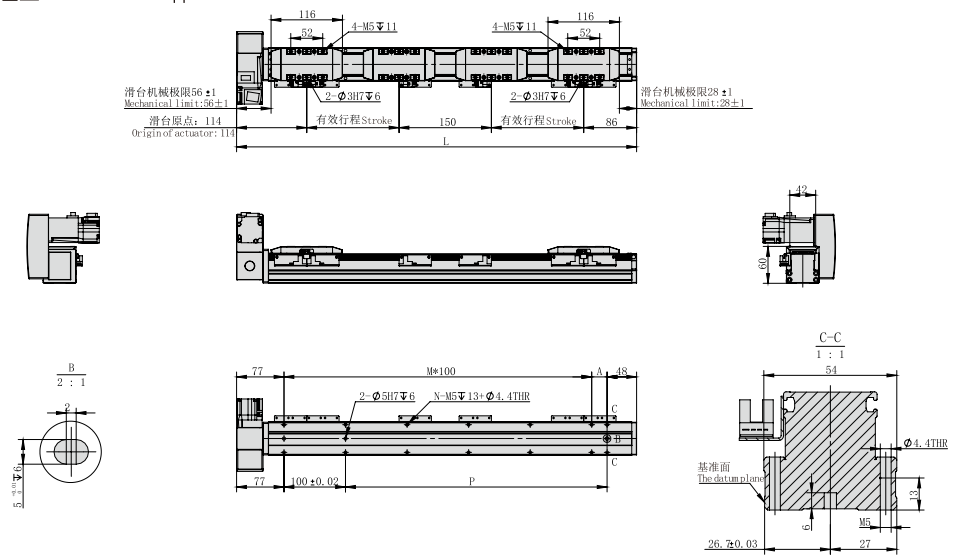
单位:Unit: mm



有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	570	600	625	650
L	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
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25
M	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
N	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
P	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425
KG	1.71	1.82	1.93	2.04	2.15	2.26	2.37	2.48	2.59	2.7	2.81	2.92	3.03	3.14	3.25	3.36	3.47	3.58	3.69	3.8	3.91	4.02	4.13	4.24	4.35

LU 电机外置左上 Motor external upper left

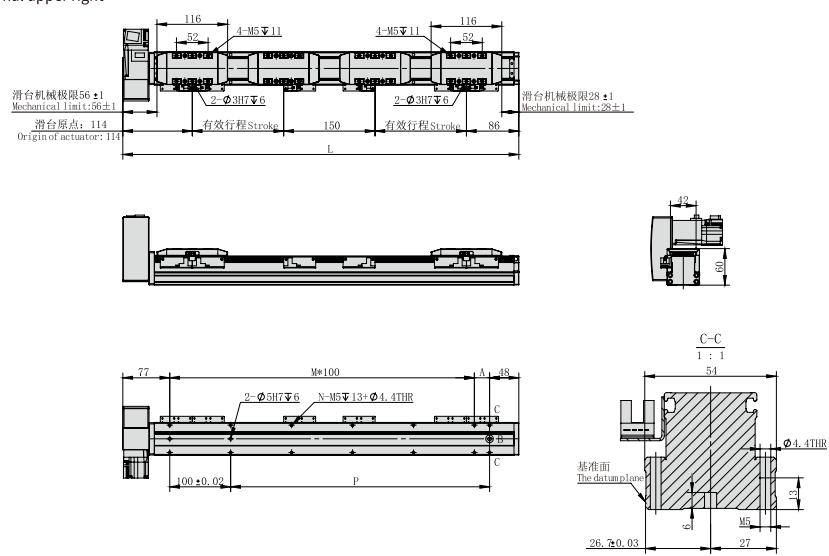
单位:Unit: mm



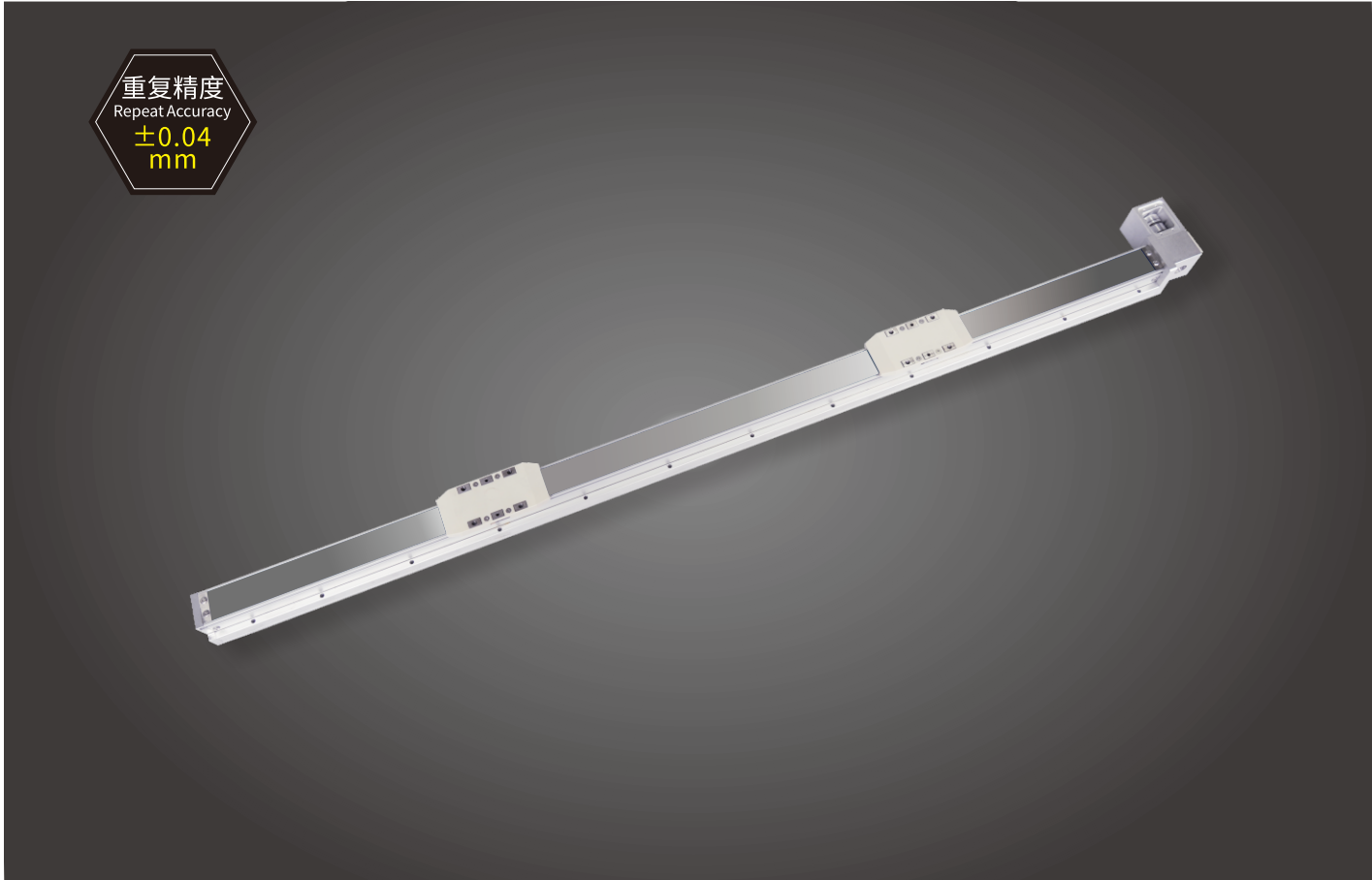
有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	570	600	625	650
L	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25
M	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
N	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
P	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425
KG	1.71	1.82	1.93	2.04	2.15	2.26	2.37	2.48	2.59	2.7	2.81	2.92	3.03	3.14	3.25	3.36	3.47	3.58	3.69	3.8	3.91	4.02	4.13	4.24	4.35

RU 电机外置右上 Motor external upper right

单位:Unit: mm



有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	570	600	625	650
L	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
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25
M	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
N	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
P	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425
KG	1.71	1.82	1.93	2.04	2.15	2.26	2.37	2.48	2.59	2.7	2.81	2.92	3.03	3.14	3.25	3.36	3.47	3.58	3.69	3.8	3.91	4.02	4.13	4.24	4.35



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

600mm

最高速度
Max Speed

3000mm/s

马达容量
Motor Output

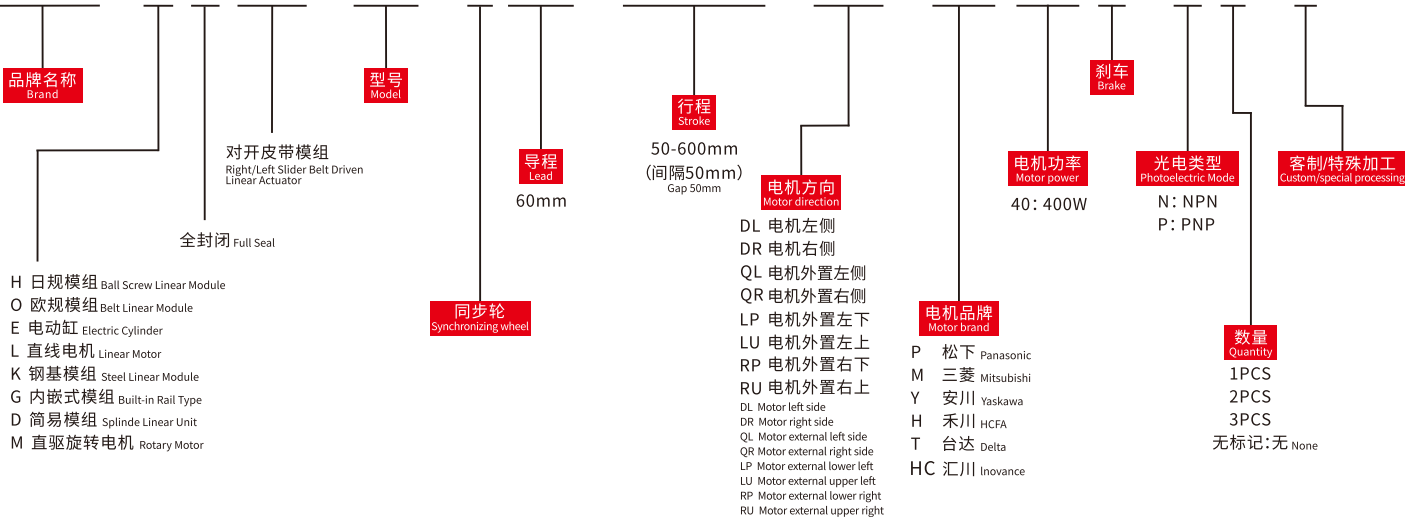
400W

皮带宽度
Belt width

15mm

型号表达方式 Ordering method

TPA-GCBS-80-P60-L600-DL-HC40B-N3-F

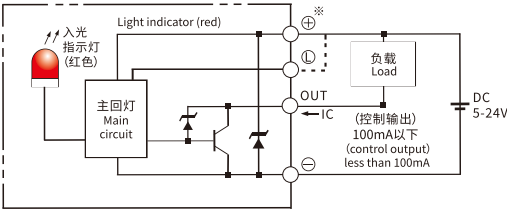


产品性能参数如下 Product performance parameters are as follows

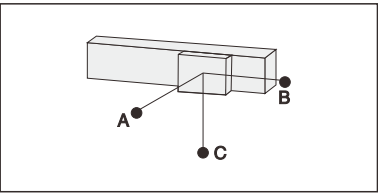
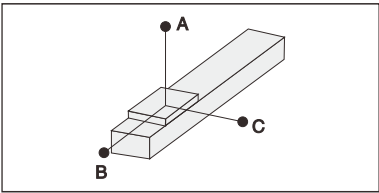
规格 Spec	重复定位精度 (mm) Repeated positioning accuracy (mm)		± 0.04
	导程 (mm) Lead (mm)		60
	最高速度 (mm/s) Maximum speed (mm/s)		3000
	最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	12 (双滑座)
		垂直使用 (kg) Vertical (kg)	-
	定格推力 (N) Rated thrust (N)		80
部品 Parts	标准行程 (mm) Stroke pitch (mm)		50~600mm/50 间隔 50 mm Pitch
	AC伺服马达容量 (W) AC servo motor output (w)		400
	皮带宽度 (mm) Belt width (mm)		15
	原点感应器 Home sensor	外挂 Outside	TPA-N674-WR

※1 马达加减速设定0.4秒。
※1 Acceleration and deceleration value is set 0.4 second.

感应器连接图<原点及端点> Sensor layout



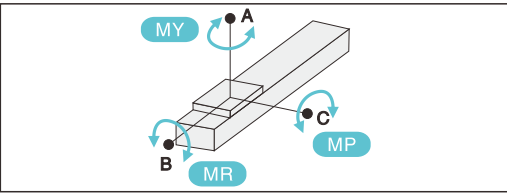
容许负载力矩表 N.m Allowable overhang



(单位Unit:mm)				
导程 60 Lead	水平安装 Horizontal installation	A	B	C
	4kg	850	322	395
	8kg	560	185	226
	12kg	473	135	156

(单位Unit:mm)				
导程 60 Lead	侧面安装 Side mounting	A	B	C
	4kg	355	310	532
	8kg	210	196	455
	12kg	171	155	435

静态容许负载惯量 Static loading moment



(单位Unit:N.m)	
MY	318
MP	318
MR	626

*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

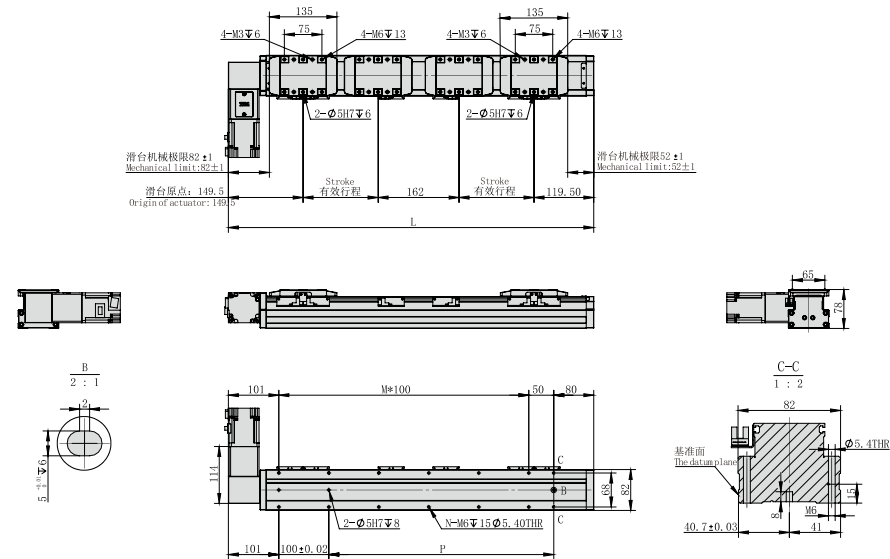
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	400	220	HG-KR43	MR-J4-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMD042G1U	MADHT2510
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECMA-C20604ES	ASD-B20421-B



电机左侧/电机右侧
Motor left side/Motor right side

DL 电机左侧 Motor left side

单位:Unit: mm

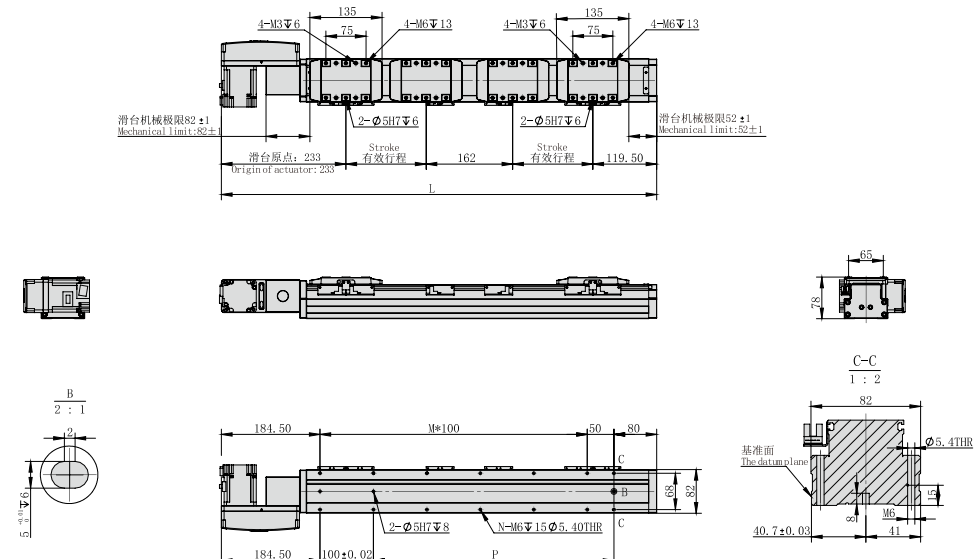


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	531	631	731	831	931	1031	1131	1231	1331	1431	1531	1631
A	50	100	50	100	50	100	50	100	50	100	50	100
M	3	4	5	6	7	8	9	10	11	12	13	14
N	10	12	14	16	18	20	22	24	26	28	30	32
P	250	350	450	550	650	750	850	950	1050	1150	1250	1350
KG	4.58	5.11	5.64	6.17	6.7	7.23	7.76	8.29	8.82	9.35	9.88	10.41

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

QL 电机外置左侧 Motor external left side

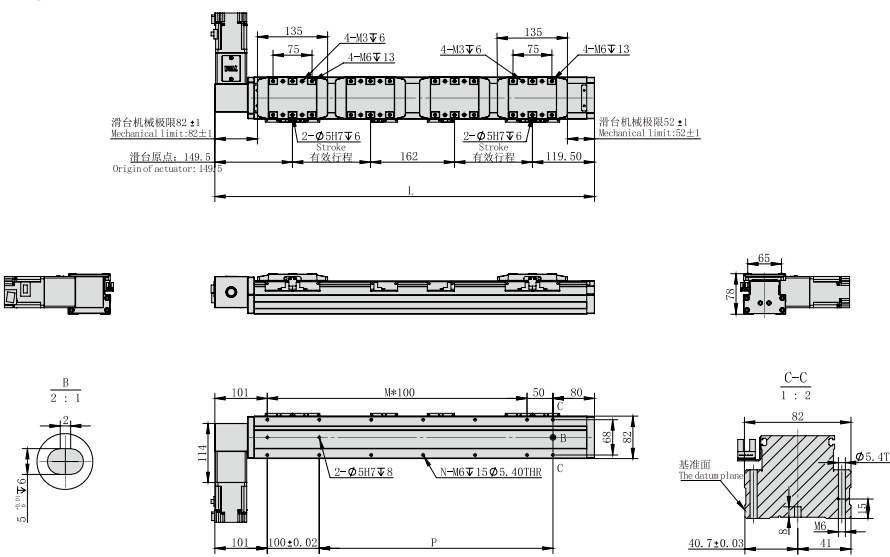
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	614.5	714.5	814.5	914.5	1014.5	1114.5	1214.5	1314.5	1414.5	1514.5	1614.5	1714.5
A	50	100	50	100	50	100	50	100	50	100	50	100
M	3	4	5	6	7	8	9	10	11	12	13	14
N	10	12	14	16	18	20	22	24	26	28	30	32
P	250	350	450	550	650	750	850	950	1050	1150	1250	1350
KG	4.58	5.11	5.64	6.17	6.7	7.23	7.76	8.29	8.82	9.35	9.88	10.41

DR 电机右侧 Motor right side

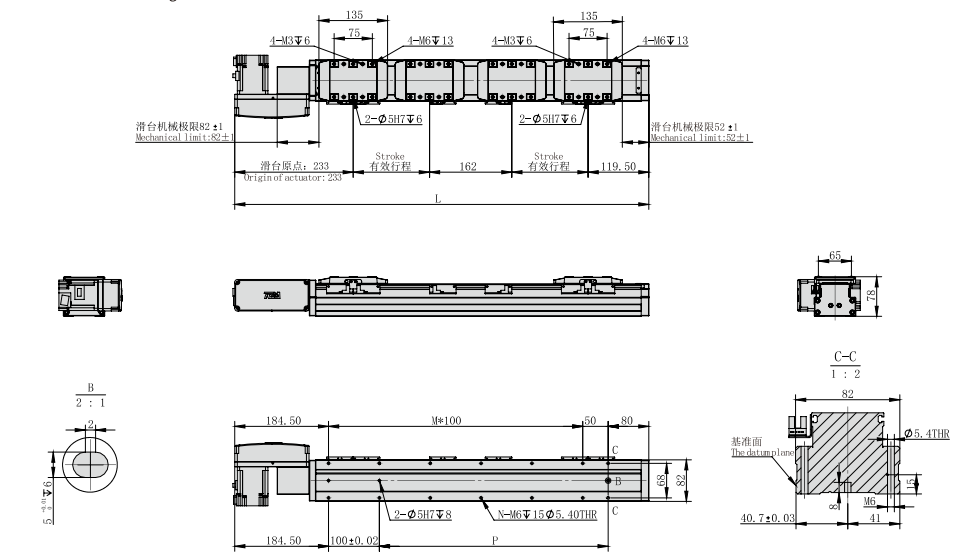
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	531	631	731	831	931	1031	1131	1231	1331	1431	1531	1631
A	50	100	50	100	50	100	50	100	50	100	50	100
M	3	4	5	6	7	8	9	10	11	12	13	14
N	10	12	14	16	18	20	22	24	26	28	30	32
P	250	350	450	550	650	750	850	950	1050	1150	1250	1350
KG	4.58	5.11	5.64	6.17	6.7	7.23	7.76	8.29	8.82	9.35	9.88	10.41

QR 电机外置右侧 Motor external right side

单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	614.5	714.5	814.5	914.5	1014.5	1114.5	1214.5	1314.5	1414.5	1514.5	1614.5	1714.5
A	50	100	50	100	50	100	50	100	50	100	50	100
M	3	4	5	6	7	8	9	10	11	12	13	14
N	10	12	14	16	18	20	22	24	26	28	30	32
P	250	350	450	550	650	750	850	950	1050	1150	1250	1350
KG	4.58	5.11	5.64	6.17	6.7	7.23	7.76	8.29	8.82	9.35	9.88	10.41

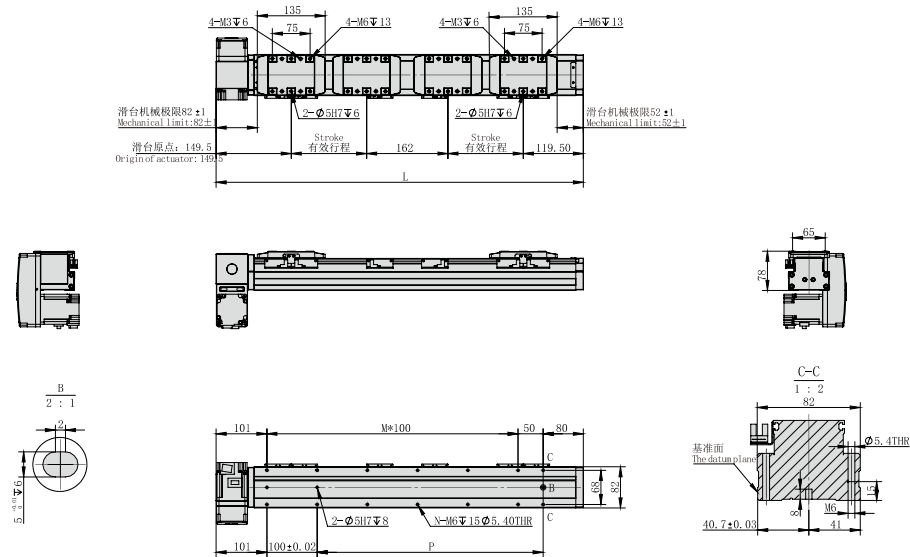


电机外置左下/电机外置左上

Motor external lower left/Motor external upper left

LP 电机外置左下 Motor external lower left

单位:Unit: mm



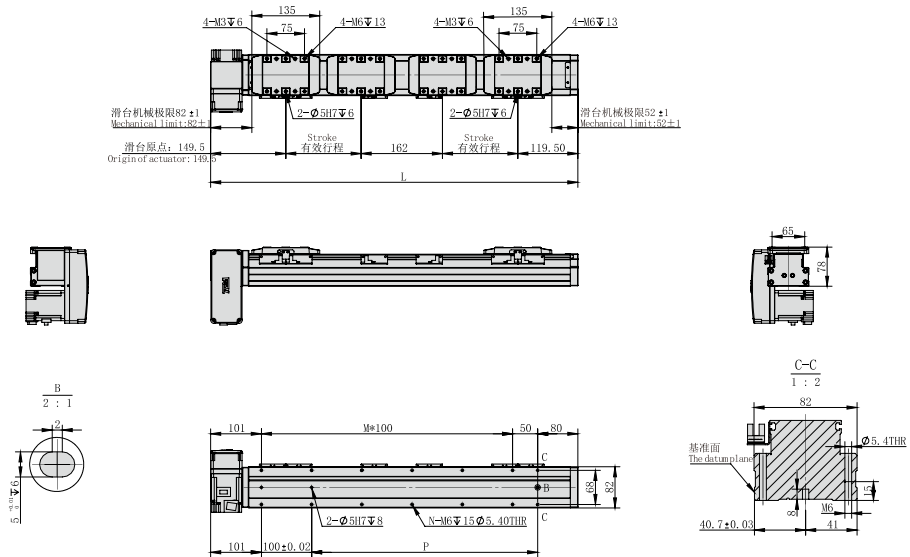
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	531	631	731	831	931	1031	1131	1231	1331	1431	1531	1631
A	50	100	50	100	50	100	50	100	50	100	50	100
M	3	4	5	6	7	8	9	10	11	12	13	14
N	10	12	14	16	18	20	22	24	26	28	30	32
P	250	350	450	550	650	750	850	950	1050	1150	1250	1350
KG	4.58	5.11	5.64	6.17	6.7	7.23	7.76	8.29	8.82	9.35	9.88	10.41

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

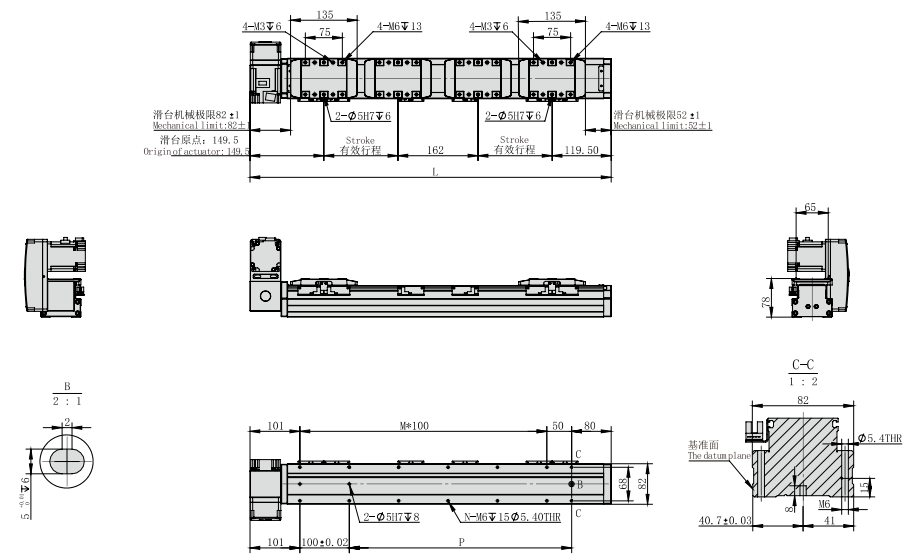
单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	531	631	731	831	931	1031	1131	1231	1331	1431	1531	1631
A	50	100	50	100	50	100	50	100	50	100	50	100
M	3	4	5	6	7	8	9	10	11	12	13	14
N	10	12	14	16	18	20	22	24	26	28	30	32
P	250	350	450	550	650	750	850	950	1050	1150	1250	1350
KG	4.58	5.11	5.64	6.17	6.7	7.23	7.76	8.29	8.82	9.35	9.88	10.41

LU 电机外置左上 Motor external upper left

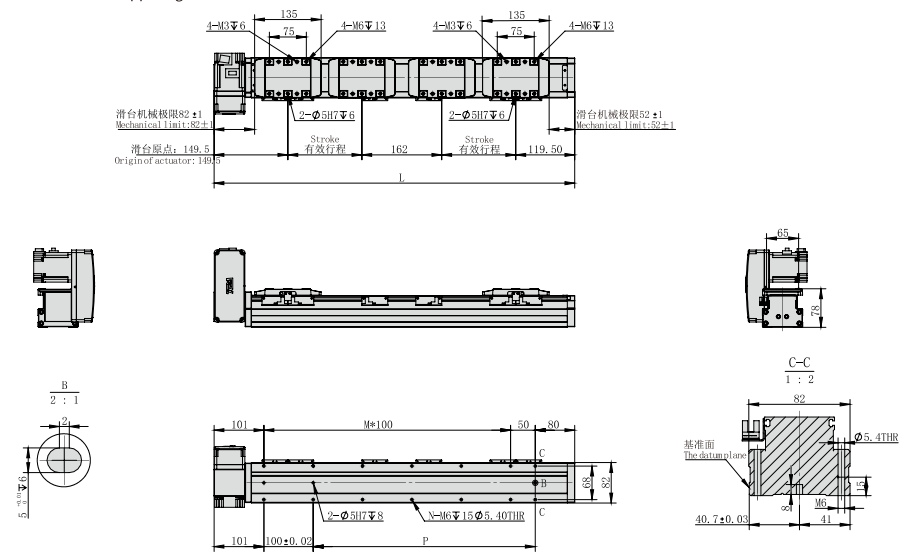
单位:Unit: mm



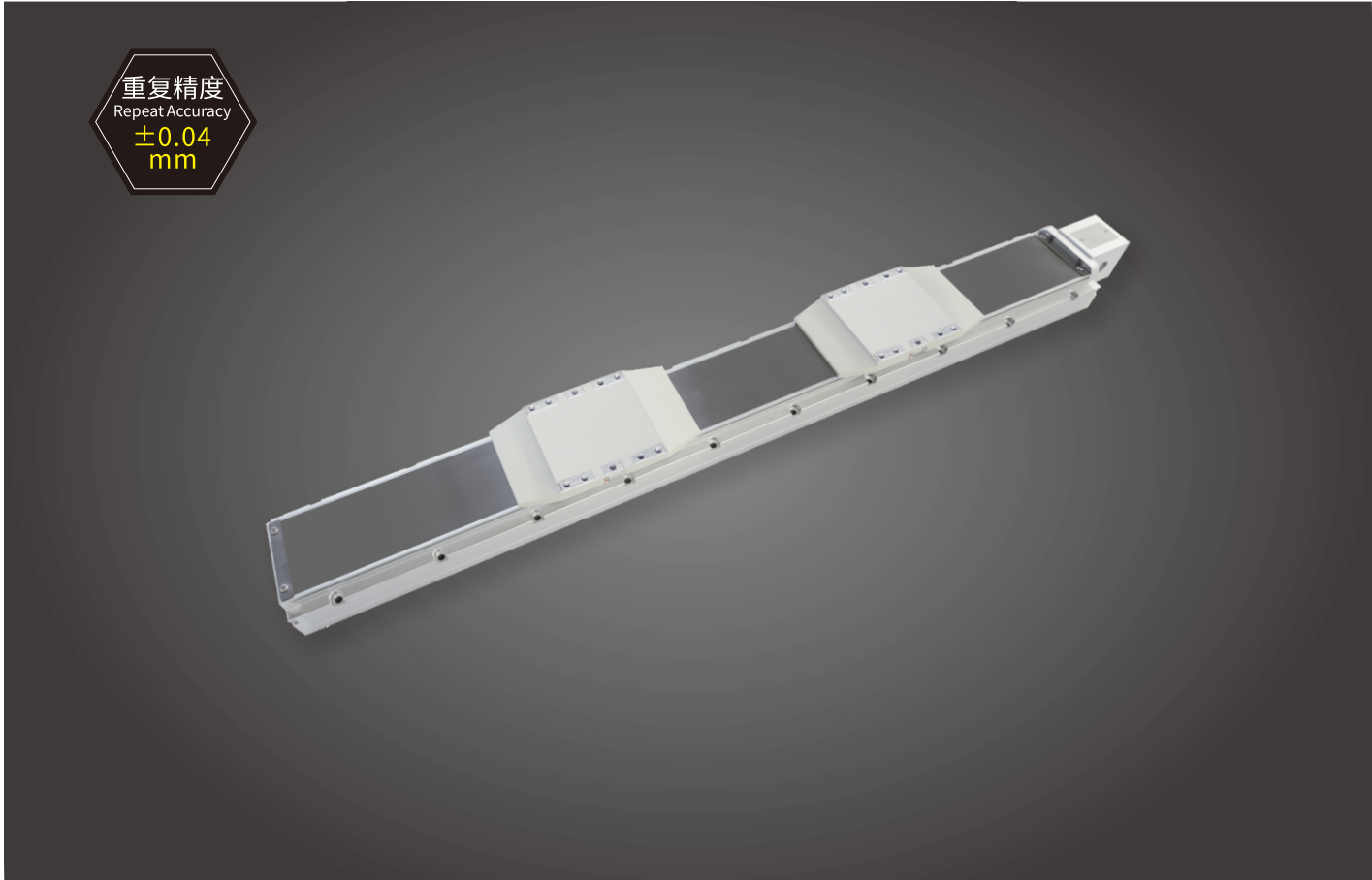
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	531	631	731	831	931	1031	1131	1231	1331	1431	1531	1631
A	50	100	50	100	50	100	50	100	50	100	50	100
M	3	4	5	6	7	8	9	10	11	12	13	14
N	10	12	14	16	18	20	22	24	26	28	30	32
P	250	350	450	550	650	750	850	950	1050	1150	1250	1350
KG	4.58	5.11	5.64	6.17	6.7	7.23	7.76	8.29	8.82	9.35	9.88	10.41

RU 电机外置右上 Motor external upper right

单位:Unit: mm



有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	531	631	731	831	931	1031	1131	1231	1331	1431	1531	1631
A	50	100	50	100	50	100	50	100	50	100	50	100
M	3	4	5	6	7	8	9	10	11	12	13	14
N	10	12	14	16	18	20	22	24	26	28	30	32
P	250	350	450	550	650	750	850	950	1050	1150	1250	1350
KG	4.58	5.11	5.64	6.17	6.7	7.23	7.76	8.29	8.82	9.35	9.88	10.41



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

750mm

最高速度
Max Speed

3500mm/s

马达容量
Motor Output

400W

皮带宽度
Belt width

20mm

型号表达方式 Ordering method

TPA-GCBS-120-P70-L750-DL-HC40B-N3-F

品牌名称
Brand

型号
Model

行程
Stroke

50-750mm
(间隔25mm)
Gap 25mm

刹车
Brake

电机功率
Motor power

40:400W

光电类型
Photoelectric Mode

N: NPN
P: PNP

定制/特殊加工
Custom/special processing

H 日规模组 Ball Screw Linear Module
O 欧规模组 Belt Linear Module
E 电动缸 Electric Cylinder
L 直线电机 Linear Motor
K 钢基模组 Steel Linear Module
G 内嵌式模组 Built-in Rail Type
D 简易模组 Splinde Linear Unit
M 直驱旋转电机 Rotary Motor

全封闭 Full Seal

对开皮带模组
Right/Left Slider Belt Driven
Linear Actuator

导程
Lead

35/70mm

同步轮
Timing Pulley

电机方向
Motor direction

DL 电机左侧
DR 电机右侧
QL 电机外置左侧
QR 电机外置右侧
LP 电机外置左下
LU 电机外置左上
RP 电机外置右下
RU 电机外置右上
DL Motor left side
DR Motor right side
QL Motor external left side
QR Motor external right side
LP Motor external lower left
LU Motor external upper left
RP Motor external lower right
RU Motor external upper right

电机品牌
Motor brand

P 松下 Panasonic
M 三菱 Mitsubishi
Y 安川 Yaskawa
H 禾川 HCFA
T 台达 Delta
HC 汇川 Inovance

数量
Quantity

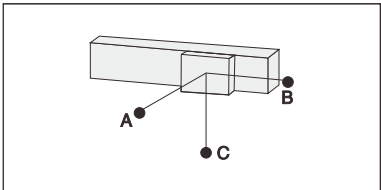
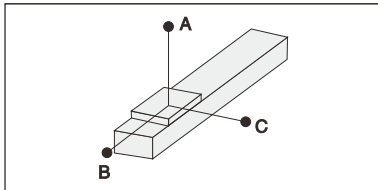
1PCS
2PCS
3PCS
无标记:无 None

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

规格 Spec	重复定位精度 (mm)	Repeated positioning accuracy (mm)	± 0.04	
	导程 (mm)	Lead (mm)	35	70
	最高速度 (mm/s)	Maximum speed (mm/s)	1750	3500
	最大可搬重量 Maximum Payload	水平使用 (kg)	25 (双滑座)	
		垂直使用 (kg)	-	
	定格推力 (N)	Rated thrust (N)	80	
部品 Parts	标准行程 (mm)	Stroke pitch (mm)	50~750mm/25 间隔 25mm Pitch	
	AC伺服马达容量 (W)	AC servo motor output (w)	400	
	皮带宽度 (mm)	Belt width (mm)	20	
	原点感应器 Home sensor	外挂 Outside	TPA-N674-WR	

※1 马达加减速设定0.4秒。
※1 Acceleration and deceleration value is set 0.4 second.

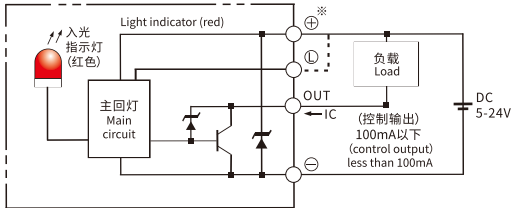
容许负载力矩表 N.m Allowable overhang



(单位Unit:mm)				
水平安装 Horizontal installation	A	B	C	
导程 35/70 Lead	10kg	1794	688	538
	20kg	858	324	253
	25kg	670	251	197

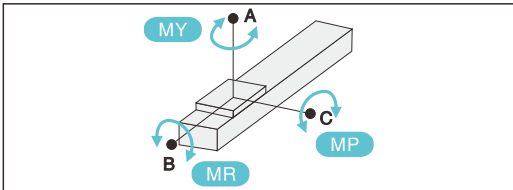
(单位Unit:mm)				
侧面安装 Side mounting	A	B	C	
导程 35/70 Lead	15kg	348	446	1170
	18kg	285	365	961
	25kg	197	251	670

感应器连接图<原点及端点> Sensor layout



GCR
GCB
GCBS
GCRS
参考资料 Reference data

静态容许负载惯量 Static loading moment



(单位Unit:N.m)	
MY	606
MP	606
MR	1168

*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

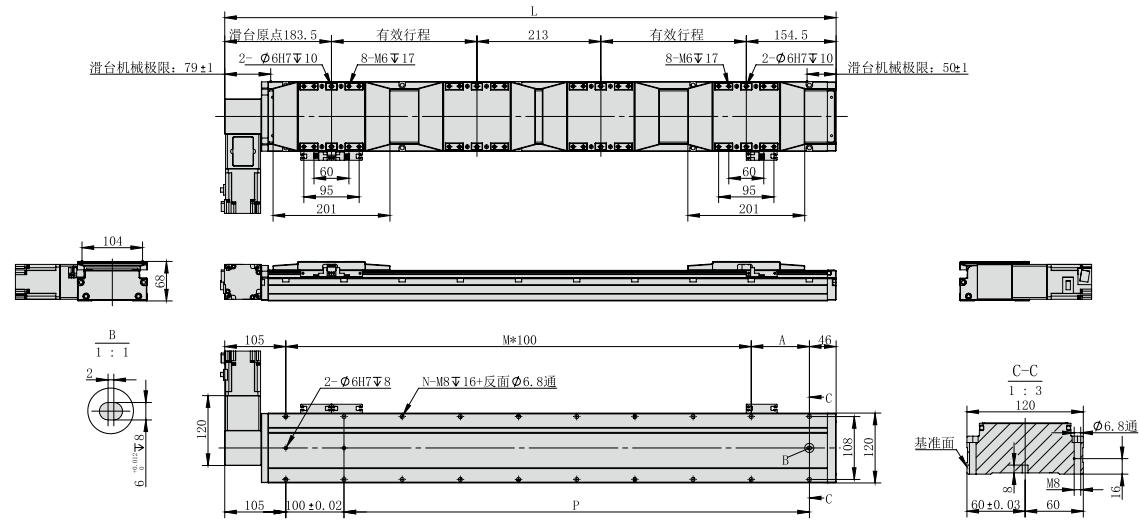
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	400	220	HG-KR43	MR-J4-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMD042G1U	MADHT2510
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECMA-C20604ES	ASD-B20421-B



电机左侧/电机右侧
Motor left side/Motor right side

DL 电机左侧 Motor left side

单位:Unit: mm

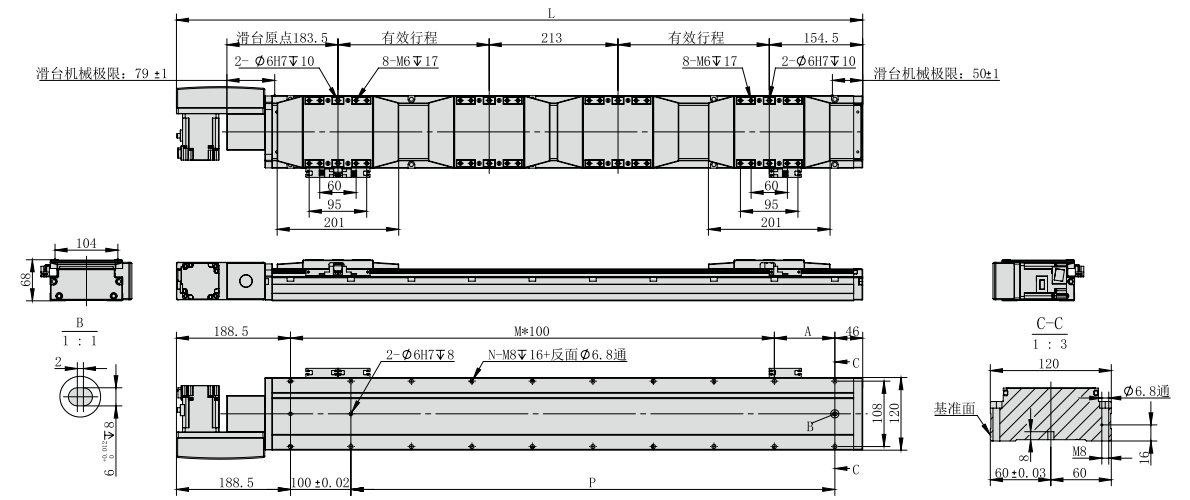


有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750
L	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	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
N	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
P	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
KG	8.05	8.4	8.75	9.1	9.45	9.8	10.2	10.5	10.9	11.2	11.6	11.9	12.3	12.6	13	13.3	13.7	14	14.4	14.7	15.1	15.4	15.8	16.1	16.5	16.8	17.2	17.5	17.9

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

QL 电机外置左侧 Motor external left side

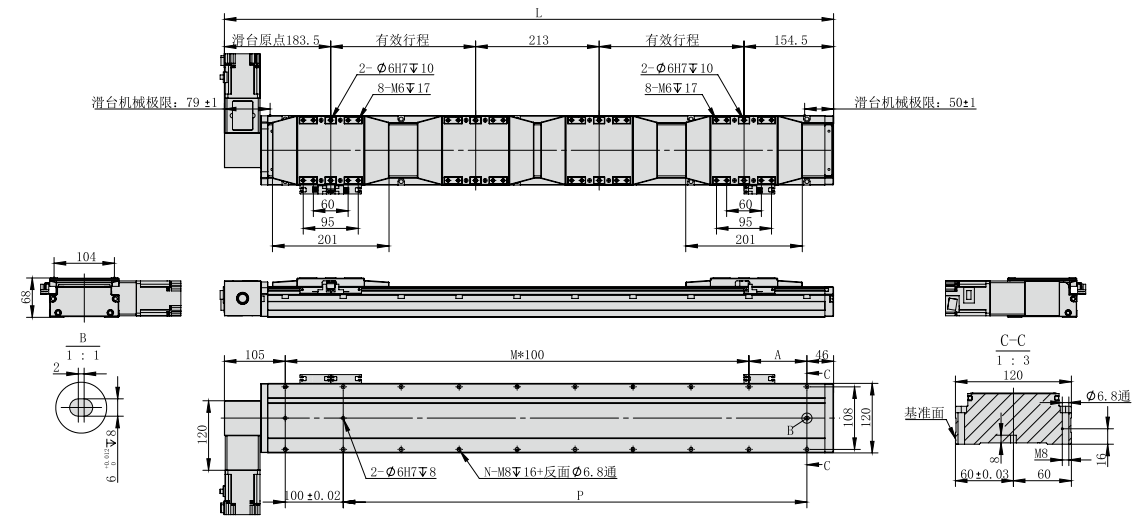
单位:Unit: mm



有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750
L	734.5	784.5	834.5	884.5	934.5	984.5	1034.5	1084.5	1134.5	1184.5	1234.5	1284.5	1334.5	1384.5	1434.5	1484.5	1534.5	1584.5	1634.5	1684.5	1734.5	1784.5	1834.5	1884.5	1934.5	1984.5	2034.5	2084.5	2134.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	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
N	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
P	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
KG	8.45	8.8	9.15	9.5	9.85	10.2	10.6	10.9	11.3	11.6	12	12.3	12.7	13	13.4	13.7	14.1	14.4	14.8	15.1	15.5	15.8	16.2	16.5	16.9	17.2	17.6	17.9	18.3

DR 电机右侧 Motor right side

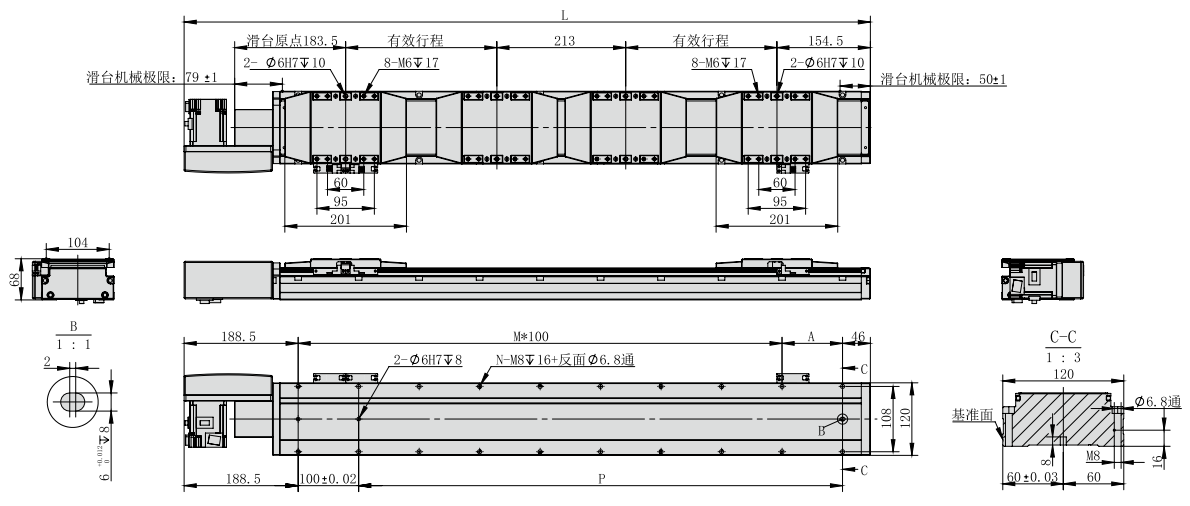
单位:Unit: mm



有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750
L	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051
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
M	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
N	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
P	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
KG	8.05	8.4	8.75	9.1	9.45	9.8	10.2	10.5	10.9	11.2	11.6	11.9	12.3	12.6	13	13.3	13.7	14	14.4	14.7	15.1	15.4	15.8	16.1	16.5	16.8	17.2	17.5	17.9

QR 电机外置右侧 Motor external right side

单位:Unit: mm



有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750
L	734.5	784.5	834.5	884.5	934.5	984.5	1034.5	1084.5	1134.5	1184.5	1234.5	1284.5	1334.5	1384.5	1434.5	1484.5	1534.5	1584.5	1634.5	1684.5	1734.5	1784.5	1834.5	1884.5	1934.5	1984.5	2034.5	2084.5	2134.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	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
N	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
P	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
KG	8.45	8.8	9.15	9.5	9.85	10.2	10.6	10.9	11.3	11.6	12	12.3	12.7	13	13.4	13.7	14.1	14.4	14.8	15.1	15.5	15.8	16.2	16.5	16.9	17.2	17.6	17.9	18.3

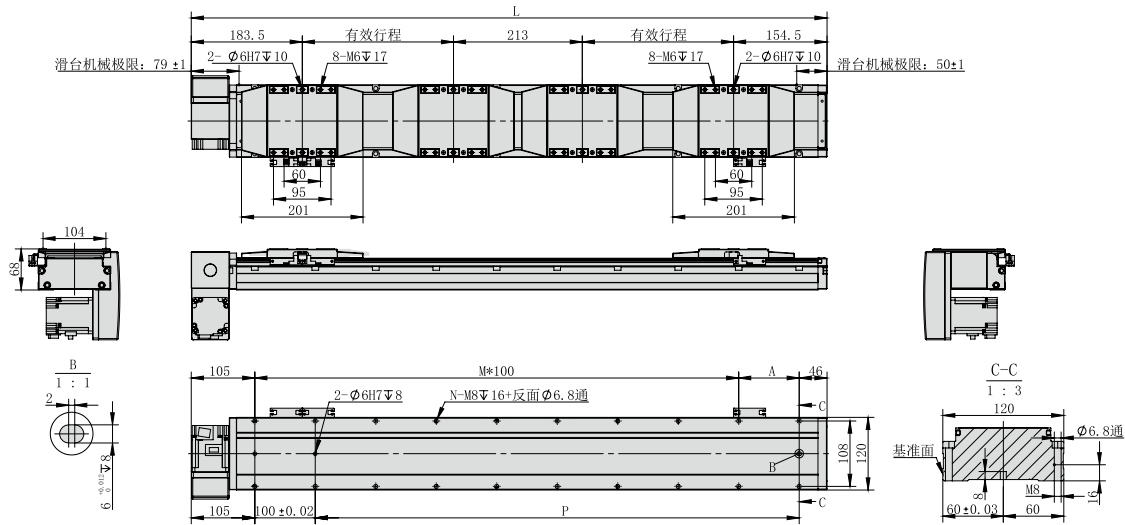


电机外置左下/电机外置左上

Motor external lower left/Motor external upper left

LP 电机外置左下 Motor external lower left

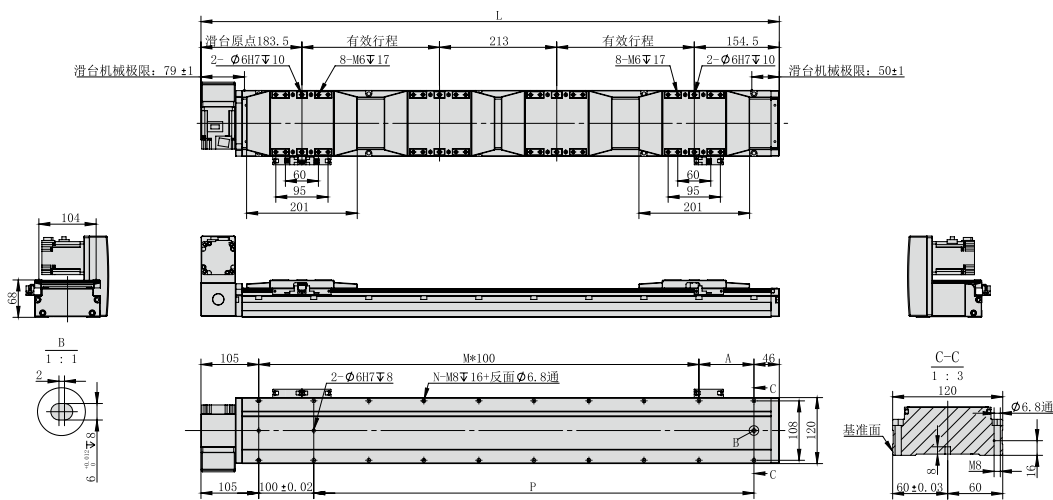
单位:Unit: mm



有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750
L	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051
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
M	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
N	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
P	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
KG	8.45	8.8	9.15	9.5	9.85	10.2	10.6	10.9	11.3	11.6	12	12.3	12.7	13	13.4	13.7	14.1	14.4	14.8	15.1	15.5	15.8	16.2	16.5	16.9	17.2	17.6	17.9	18.3

LU 电机外置左上 Motor external upper left

单位:Unit: mm



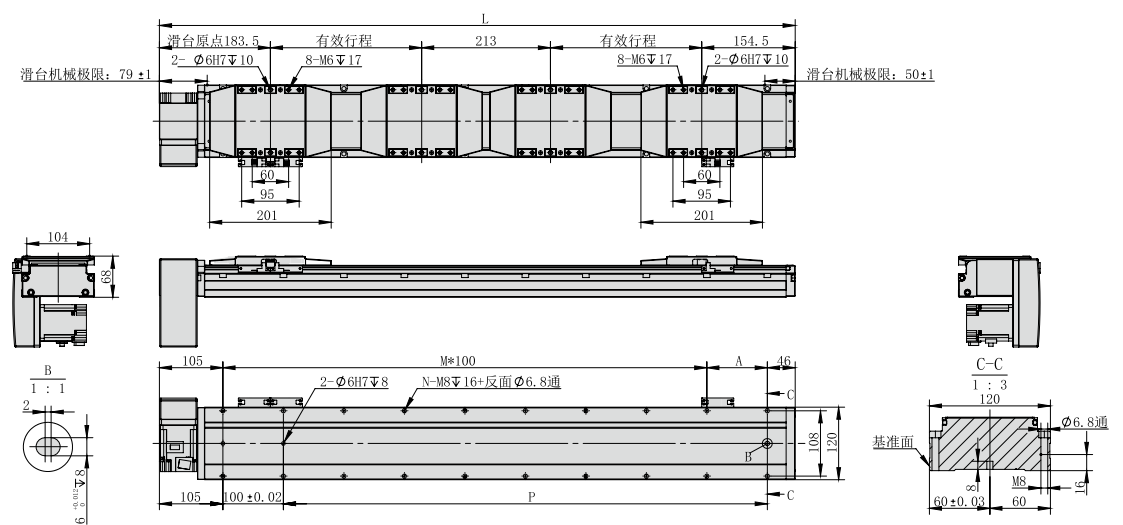
有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750
L	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	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
N	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
P	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
KG	8.45	8.8	9.15	9.5	9.85	10.2	10.6	10.9	11.3	11.6	12	12.3	12.7	13	13.4	13.7	14.1	14.4	14.8	15.1	15.5	15.8	16.2	16.5	16.9	17.2	17.6	17.9	18.3

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

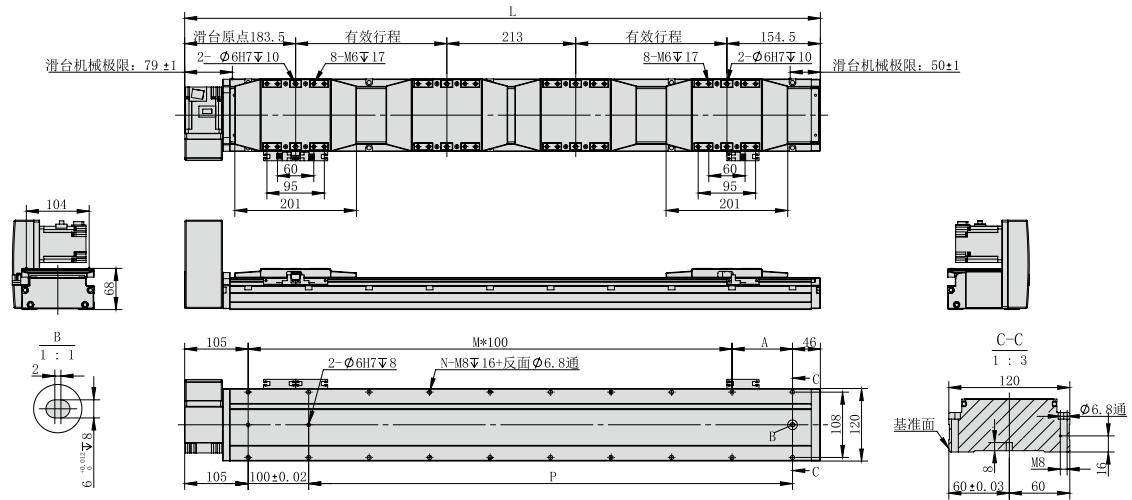
单位:Unit: mm



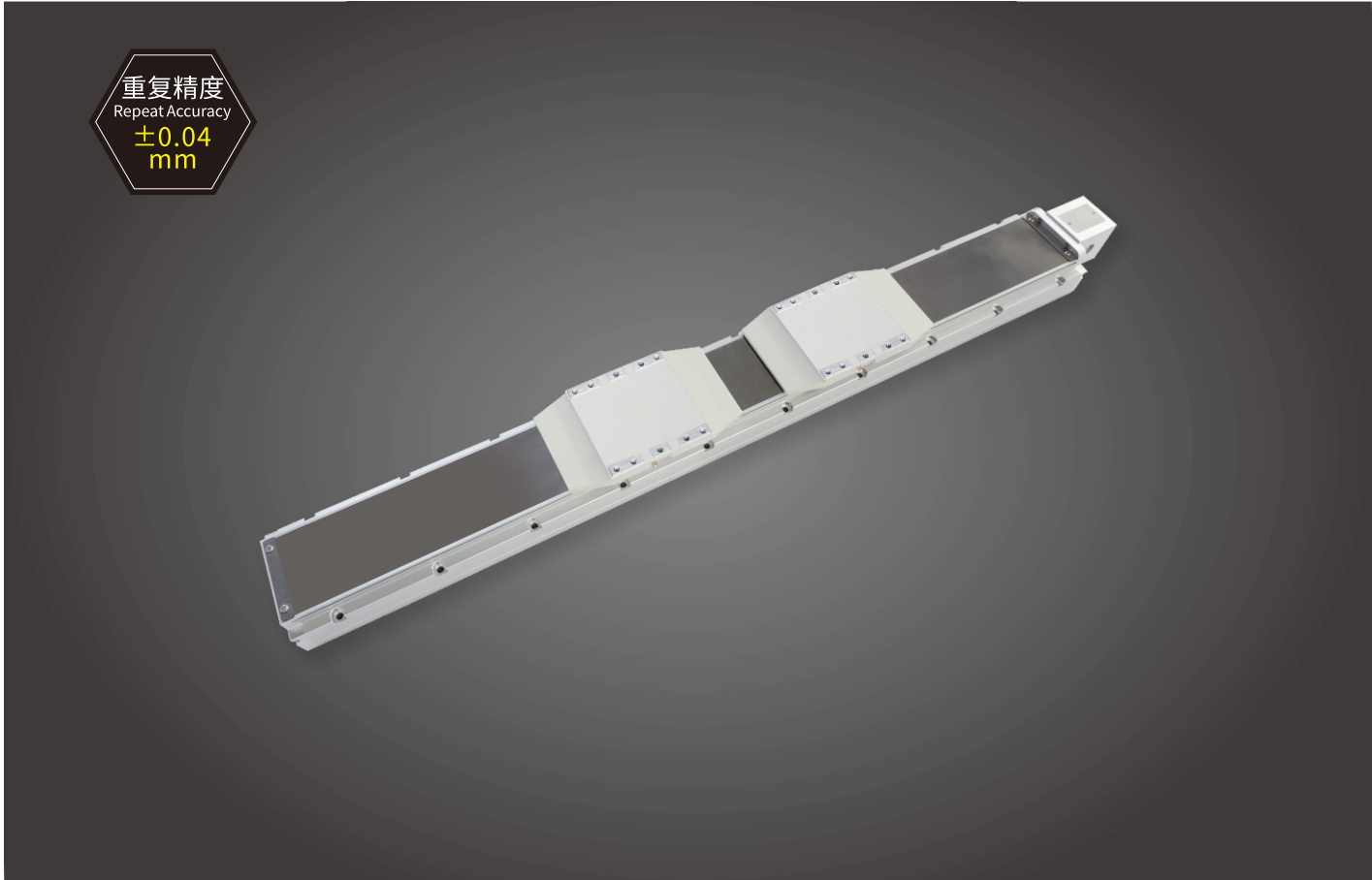
有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750
L	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	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
N	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
P	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
KG	8.45	8.8	9.15	9.5	9.85	10.2	10.6	10.9	11.3	11.6	12	12.3	12.7	13	13.4	13.7	14.1	14.4	14.8	15.1	15.5	15.8	16.2	16.5	16.9	17.2	17.6	17.9	18.3

RU 电机外置右上 Motor external upper right

单位:Unit: mm



有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750
L	651	701	751	801	851	901	951	1001	1051	1101	1151	1201	1251	1301	1351	1401	1451	1501	1551	1601	1651	1701	1751	1801	1851	1901	1951	2001	2051
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
M	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
N	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
P	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
KG	8.45	8.8	9.15	9.5	9.85	10.2	10.6	10.9	11.3	11.6	12	12.3	12.7	13	13.4	13.7	14.1	14.4	14.8	15.1	15.5	15.8	16.2	16.5	16.9	17.2	17.6	17.9	18.3



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

675mm

最高速度
Max Speed

4000mm/s

马达容量
Motor Output

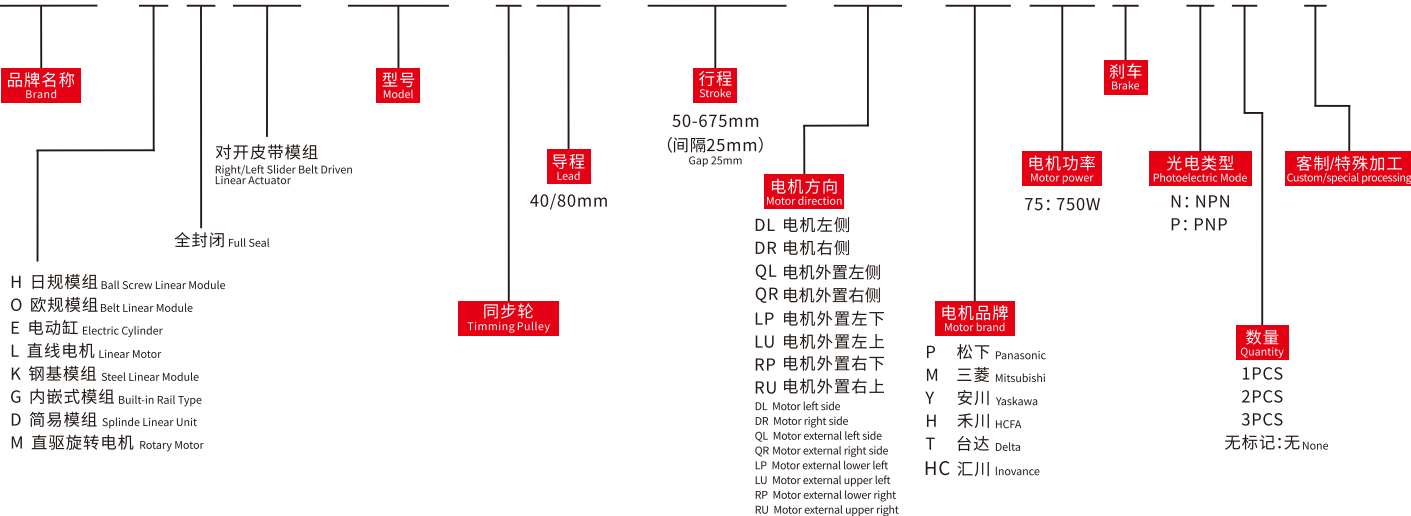
750W

皮带宽度
Belt width

35mm

型号表达方式 Ordering method

TPA-GCBS-150-P80-L675-DL-HC75B-N3-F

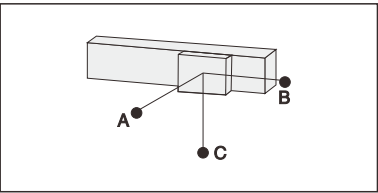
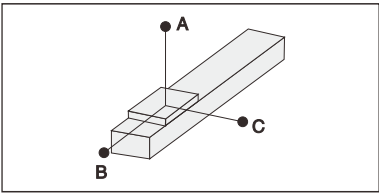


产品性能参数如下 Product performance parameters are as follows

规格 Spec	重复定位精度 (mm) Repeated positioning accuracy (mm)	±0.04	
	导程 (mm) Lead (mm)	40	80
	最高速度 (mm/s) Maximum speed (mm/s)	2000	4000
	最大可搬重量 Maximum Payload	30 (双滑座)	
	水平使用 (kg) Horizontal (kg)	30 (双滑座)	
部品 Parts	垂直使用 (kg) Vertical (kg)	-	
	定格推力 (N) Rated thrust (N)	80	
	标准行程 (mm) Stroke pitch (mm)	50~750mm/25 间隔 25mm Pitch	
	AC伺服马达容量 (W) AC servo motor output (w)	750	
	皮带宽度 (mm) Belt width (mm)	30	
原 点 感 应 器 Home sensor	外挂 Outside	TPA-N674-WR	

※1 马达加减速设定0.4秒。
※1 Acceleration and deceleration value is set 0.4 second.

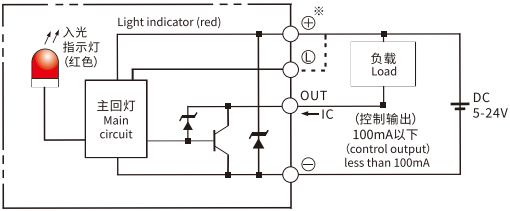
容许负载力矩表 N.m Allowable overhang



(单位Unit:mm)				
水平安装 Horizontal installation	A	B	C	
导程 40/80 Lead	10kg	1794	688	538
	20kg	858	324	253
	30kg	670	251	197

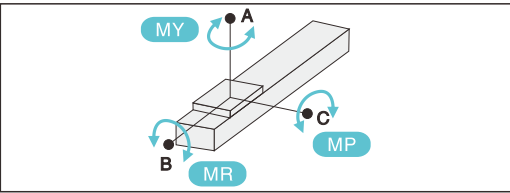
(单位Unit:mm)				
侧面安装 Side mounting	A	B	C	
导程 40/80 Lead	15kg	348	446	1170
	18kg	285	365	961
	30kg	197	251	670

感应器连接图<原点及端点> Sensor layout



GCR
GCB
GCBS
GCRS
参考资料 Reference data

静态容许负载惯量 Static loading moment



(单位Unit:N.m)	
MY	886
MP	826
MR	1500

*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-KR73	MR-J4-70A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	750	220	MHMD082G1U	MADHT3520
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	750	220	ECMA-C20807ES	ASD-B20721-B

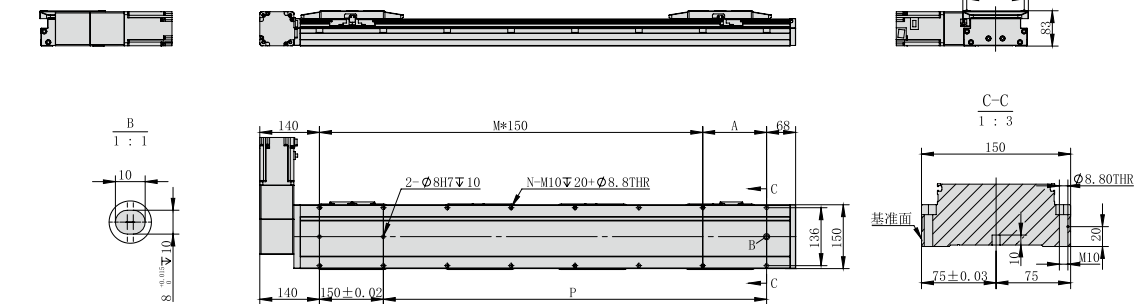
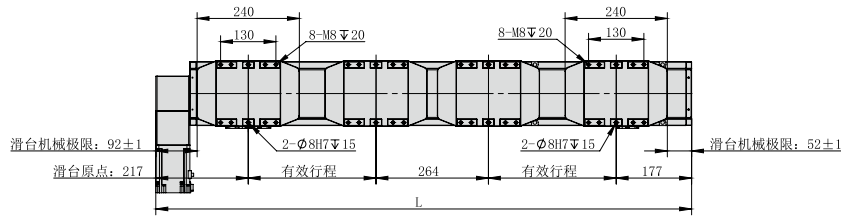


电机左侧/电机右侧

Motor left side/Motor right side

DL 电机左侧 Motor left side

单位:Unit: mm



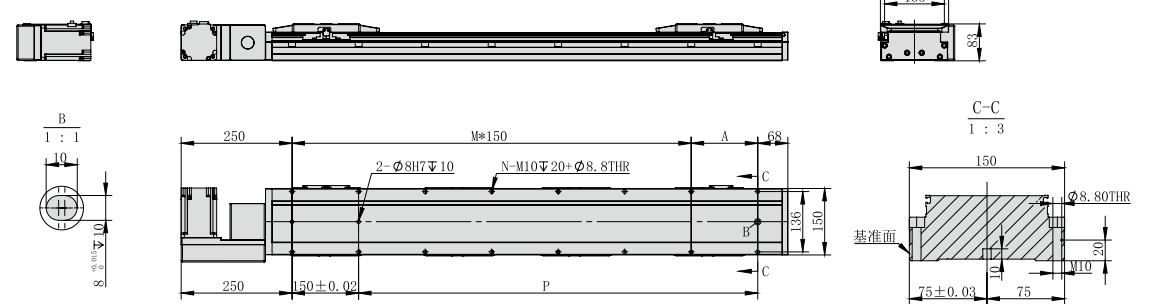
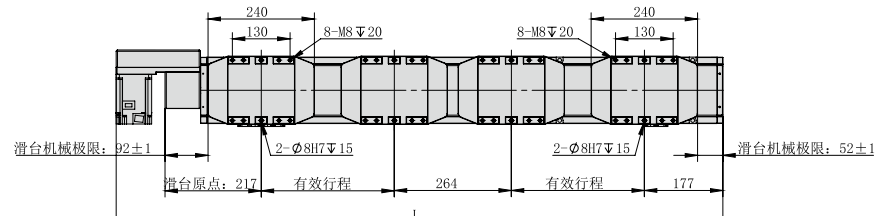
有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675
L	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908	1958	2008
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11
N	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
P	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
KG	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6	26.1	26.6	27.1	27.6	28.1	28.6	29.1	29.6

电机外置左侧/电机外置右侧

Motor external left side/Motor external right side

QL 电机外置左侧 Motor external left side

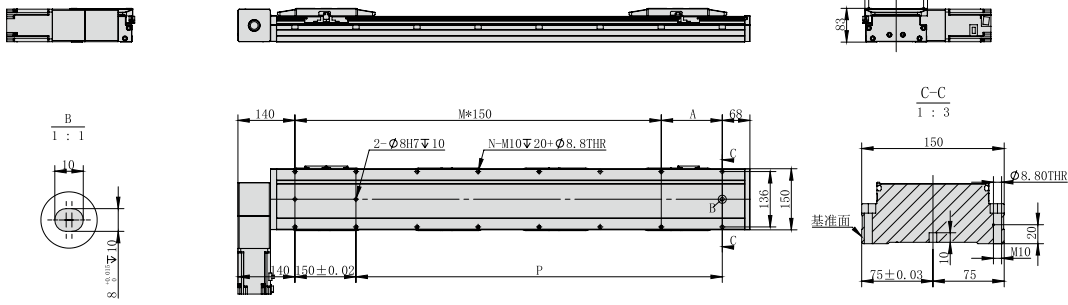
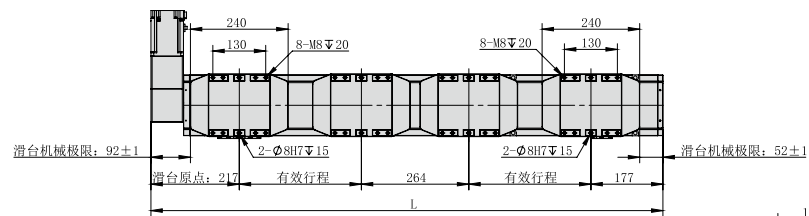
单位:Unit: mm



有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675
L	868	918	968	1018	1068	1118	1168	1218	1268	1318	1368	1418	1468	1518	1568	1618	1668	1718	1768	1818	1868	1918	1968	2018	2068	2118
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11
N	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
P	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
KG	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	27.5	28	28.5	29	29.5	30

DR 电机右侧 Motor right side

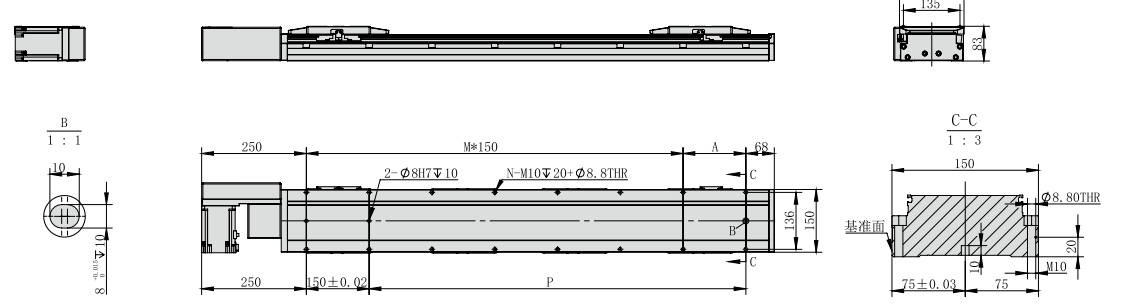
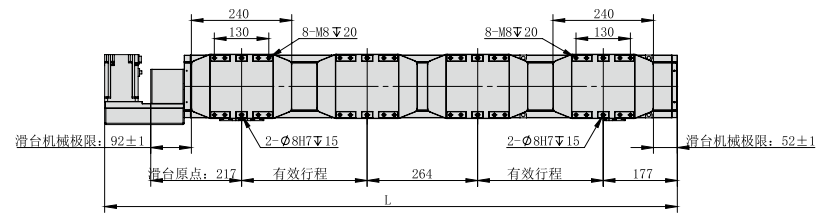
单位:Unit: mm



有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675
L	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908	1958	2008
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11
N	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
P	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
KG	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6	26.1	26.6	27.1	27.6	28.1	28.6	29.1	29.6

QR 电机外置右侧 Motor external right side

单位:Unit: mm



有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675
L	868	918	968	1018	1068	1118	1168	1218	1268	1318	1368	1418	1468	1518	1568	1618	1668	1718	1768	1818	1868	1918	1968	2018	2068	2118
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11
N	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
P	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
KG	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	27.5	28	28.5	29	29.5	30



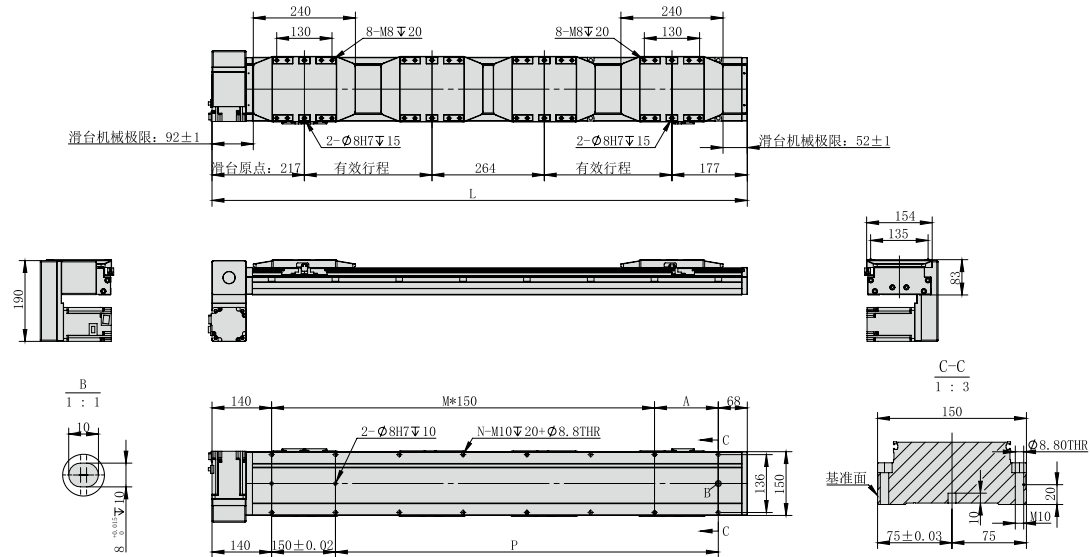
电机外置左下/电机外置左上

Motor external lower left/Motor external upper left

LP

电机外置左下 Motor external lower left

单位:Unit: mm



有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675
L	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908	1958	2008
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11
N	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
P	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
KG	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	27.5	28	28.5	29	29.5	30

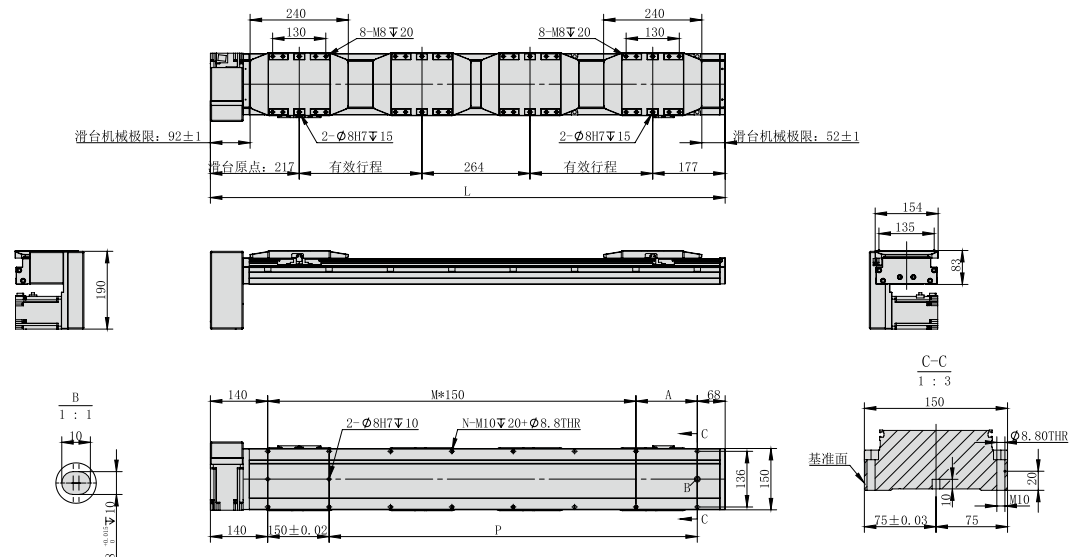
电机外置右下/电机外置右上

Motor external lower right/Motor external upper right

RP

电机外置右下 Motor external lower right

单位:Unit: mm

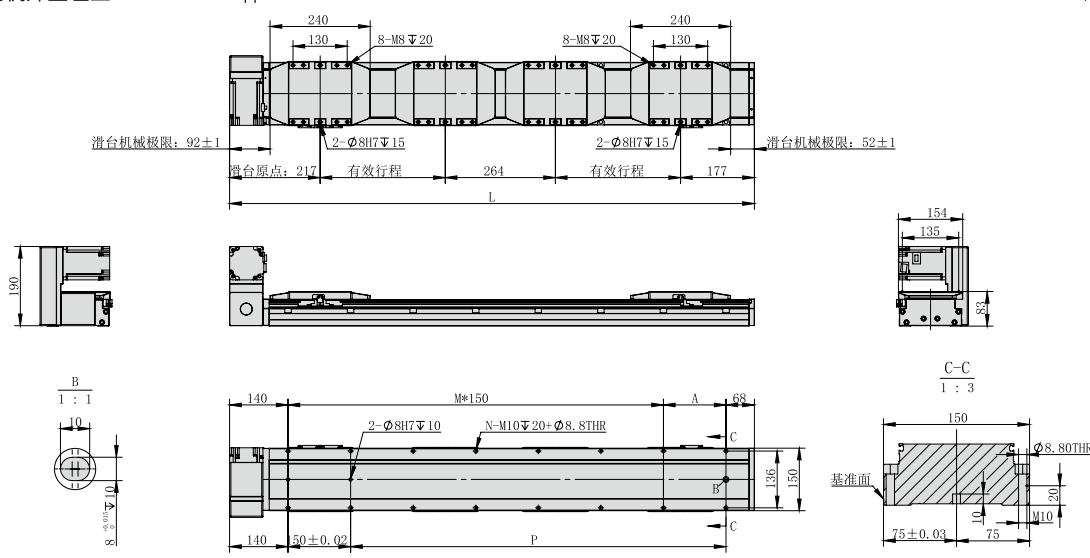


有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675
L	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908	1958	2008
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11
N	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
P	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
KG	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	27.5	28	28.5	29	29.5	30

LU

电机外置左上 Motor external upper left

单位:Unit: mm

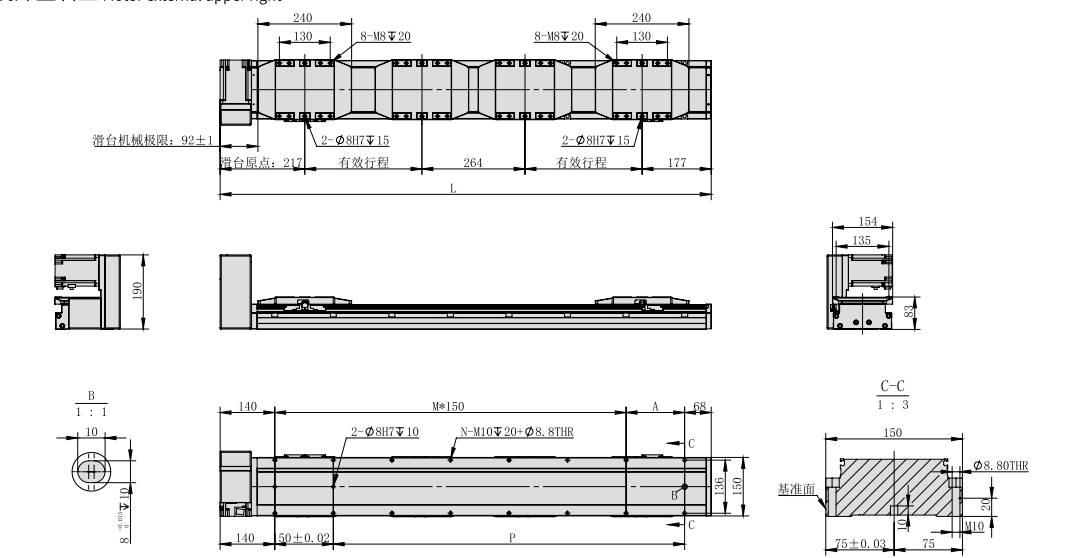


有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675
L	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908	1958	2008
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11
N	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
P	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
KG	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	27.5	28	28.5	29	29.5	30

RU

电机外置右上 Motor external upper right

单位:Unit: mm



有效行程 Valid Stroke	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675
L	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508	1558	1608	1658	1708	1758	1808	1858	1908	1958	2008
A	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150	50	100	150
M	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	11
N	10	10	12	12	12	14	14	14	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	26	26	26
P	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
KG	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	27.5	28	28.5	29	29.5	30



重复精度
Repeat Accuracy
 ± 0.005
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

325mm

最高速度
Max Speed

250mm/s

马达容量
Motor Output

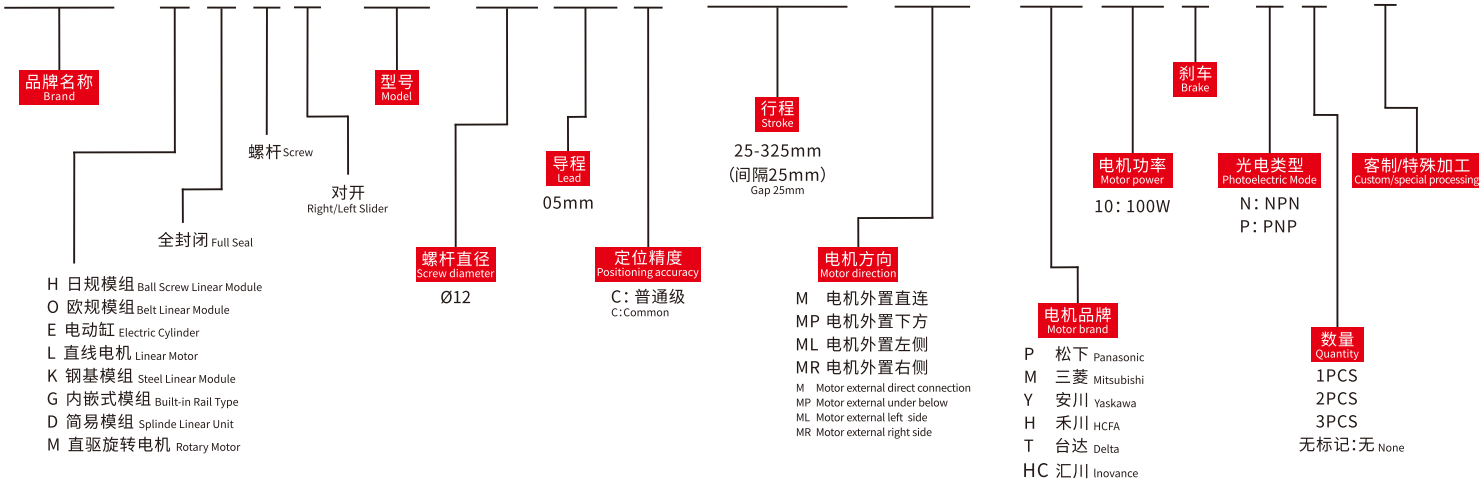
100W

滚珠螺杆
Ball Screw

Ø12mm

型号表达方式 Ordering method

TPA-GCRS-50-1205C-L325-ML-HC10B-N3-F



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

规格 Spec	重复定位精度 (mm) Repeated positioning accuracy (mm)	P 级: ± 0.005	C 级: ± 0.01
	螺杆导程 (mm) Ball screw lead (mm)	05	
	最高速度 (mm/s) Maximum speed (mm/s)	250	
	最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	30 (双滑座 Dual carriage)
		垂直使用 (kg) Vertical (kg)	10 (双滑座 Dual carriage)
部品 Parts	定格推力 (N) Rated thrust (N)	854	
	标准行程 (mm) Stroke pitch (mm)	25~325mm/25间隔 25mm Pitch	
	AC伺服马达容量 (W) AC servo motor output (w)	100	
	滚珠螺杆外径 (mm) Ball screw Ø (mm)	Ø12	
	联轴器 (mm) Coupling (mm)	7X8	
原点感应器 Original Sense		外挂 Outside	TPA-N674-WR

※1 反向同动只能对应导程5。
※1 Dual carriage synchronous movement in reverse direction can only fit at lead of 5mm.
※2 马达加减速设定0.2秒。
※2 Acceleration and deacceleration value is set 0.2 second.

容许负载力矩表 N.m Allowable overhang

(单位Unit:mm)					(单位Unit:mm)					(单位Unit:mm)				
导程 05 Lead	水平安装 Horizontal installation	A	B	C	导程 05 Lead	侧面安装 Side mounting	A	B	C	导程 05 Lead	垂直安装 Vertical installation	A	C	
	10kg	900	100	135		10kg	135	100	900		6kg	180	180	
	20kg	700	45	60		20kg	60	45	700		8kg	135	135	
	30kg	550	25	35		30kg	37	27	550		10kg	110	110	

静态容许负载惯量 Static loading moment

(单位Unit:N.m)	
MY	103
MP	103
MR	144

*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)	100	220	HG-KR13	MR-J4-10A
		有刹车(垂直式样) With brakes (vertical type)	100	220	HG-KR13B	MR-J4-10A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	100	220	MHMD012G1U	MADHT1505
		有刹车(垂直式样) With brakes (vertical type)	100	220	MHMD012G1V	MADHT1505
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	100	220	ECMA-C20401ES	ASD-B20121-B
		有刹车(垂直式样) With brakes (vertical type)	100	220	ECMA-C20401FS	ASD-B20121-B



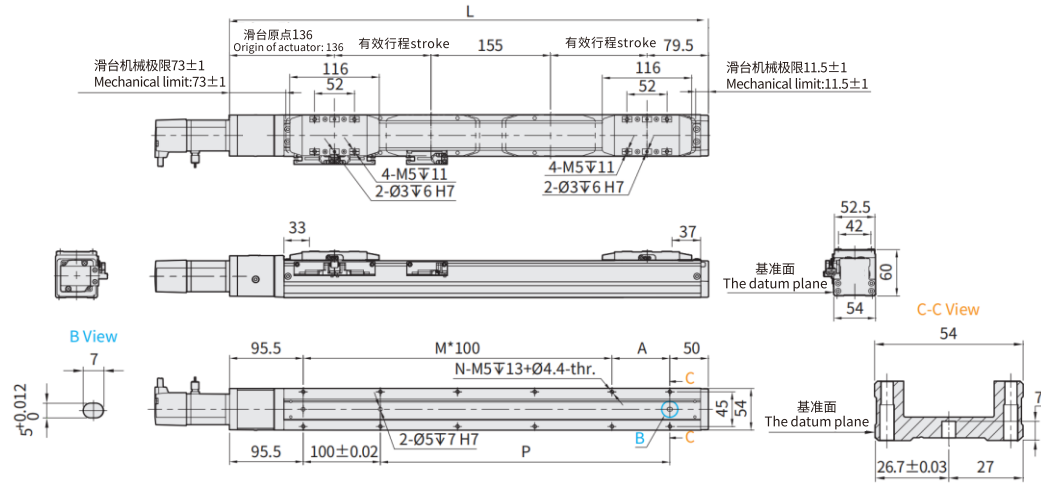
电机外置直连/电机外置下方

Motor external direct connection/Motor external under below

M

电机外置直连 Motor external direct connection

单位:Unit: mm



有效行程 Valid Stroke	25	50 [*]	75	100	125	150	175	200	225	250	275	300	325
L	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	2	3	3	4	4	5	5	6	6	7	7	8	8
N	8	10	10	12	12	14	14	16	16	18	18	20	20
P	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	2.75	2.94	3.13	3.32	3.51	3.7	3.89	4.08	4.27	4.46	4.65	4.84	5.03

※行程50时,因本体上锁式固定孔会被滑座遮住,仅能使用4支螺丝固定,建议客户本体使用下锁式固定孔锁附。
※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

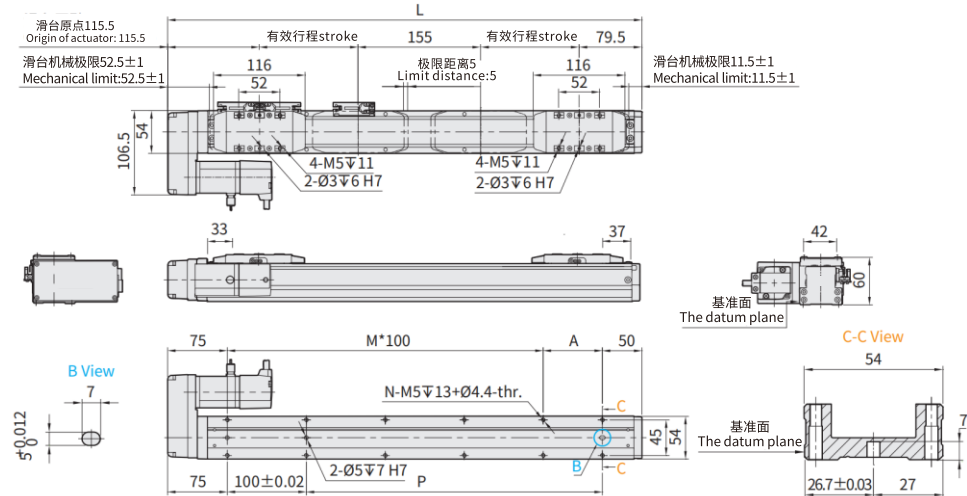
电机外置左侧/电机外置右侧

Motor external left side/Motor external right side

ML

电机外置左侧 Motor external left side

单位:Unit: mm



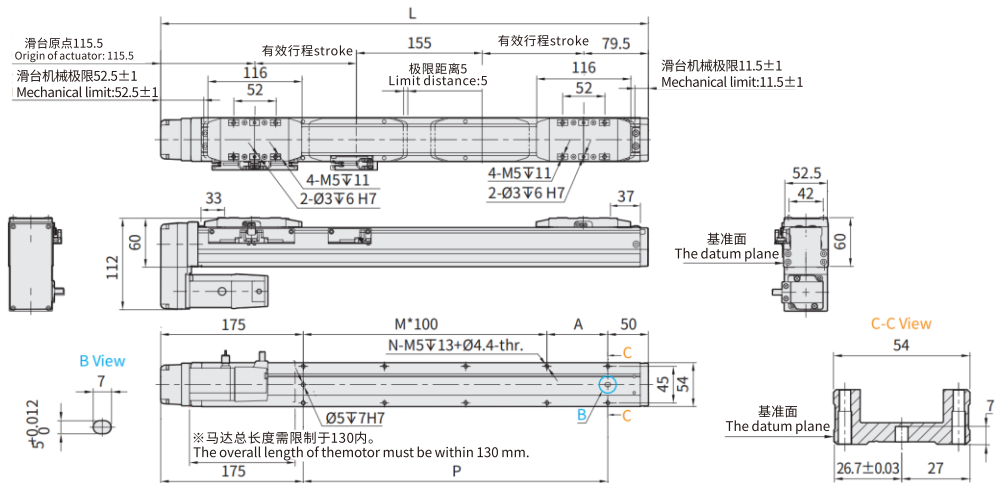
有效行程 Valid Stroke	25	50 [*]	75	100	125	150	175	200	225	250	275	300	325
L	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	2	3	3	4	4	5	5	6	6	7	7	8	8
N	8	10	10	12	12	14	14	16	16	18	18	20	20
P	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	3	3.19	3.38	3.57	3.76	3.95	4.14	4.33	4.52	4.71	4.9	5.09	5.28

※行程50时,因本体上锁式固定孔会被滑座遮住,仅能使用4支螺丝固定,建议客户本体使用下锁式固定孔锁附。
※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

MP

电机外置下方 Motor external under below

单位:Unit: mm



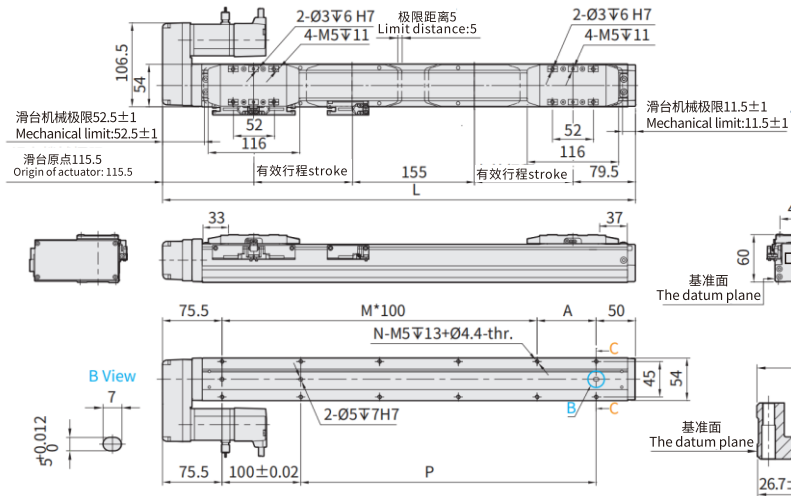
有效行程 Valid Stroke	25	50 [*]	75	100	125	150	175	200	225	250	275	300	325
L	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	2	2	3	3	4	4	5	5	6	6	7	7
N	6	8	8	10	10	12	12	14	14	16	16	18	18
P	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	3	3.19	3.38	3.57	3.76	3.95	4.14	4.33	4.52	4.71	4.9	5.09	5.28

※行程50时,因本体上锁式固定孔会被滑座遮住,仅能使用4支螺丝固定,建议客户本体使用下锁式固定孔锁附。
※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.
※马达总长度,若选用刹车马达,或是超出马达总长度限制时无法套用标准PIN孔,如有需求请洽我司业务。
※When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

MR

电机外置右侧 Motor external right side

单位:Unit: mm



有效行程 Valid Stroke	25	50 [*]	75	100	125	150	175	200	225	250	275	300	325
L	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	2	3	3	4	4	5	5	6	6	7	7	8	8
N	8	10	10	12	12	14	14	16	16	18	18	20	20
P	175	225	275	325	375	425	475	525	575	625	675	725	775
KG	3	3.19	3.38	3.57	3.76	3.95	4.14	4.33	4.52	4.71	4.9	5.09	5.28

※行程50时,因本体上锁式固定孔会被滑座遮住,仅能使用4支螺丝固定,建议客户本体使用下锁式固定孔锁附。
※When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.



重复精度
Repeat Accuracy
 ± 0.005
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

450mm

最高速度
Max Speed

500mm/s

马达容量
Motor Output

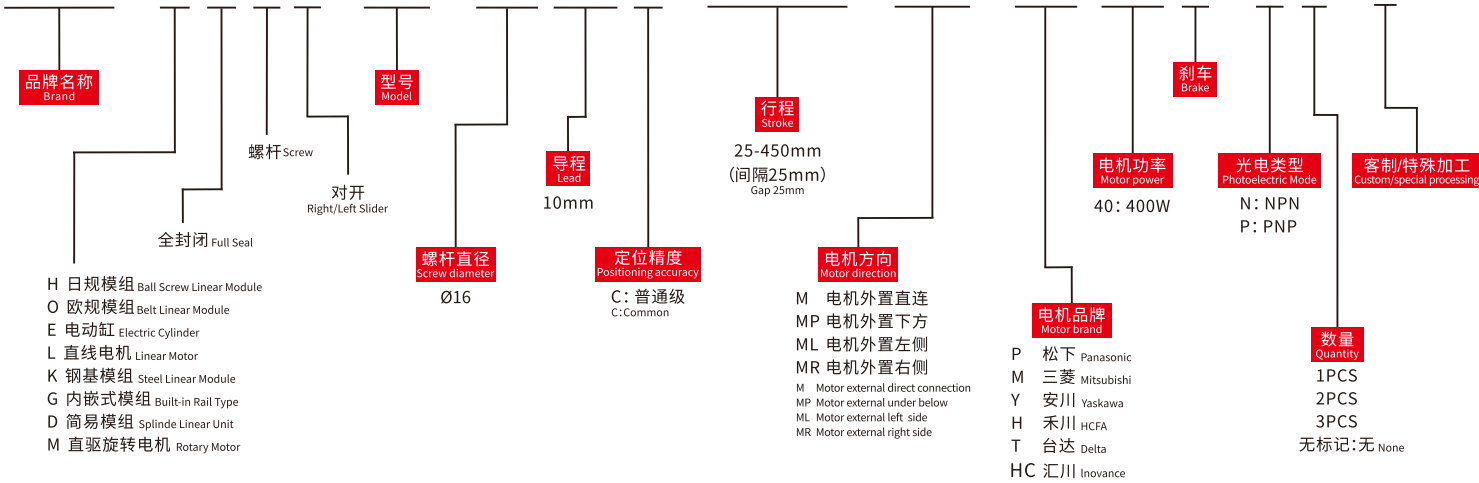
400W

滚珠螺杆
Ball Screw

Ø16mm

型号表达方式 Ordering method

TPA-GCRS-80-1610C-L450-ML-HC40B-N3-F



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

规格 Spec	重复定位精度 (mm) Repeated positioning accuracy (mm)	P 级: ± 0.005	C 级: ± 0.01
	螺杆导程 (mm) Ball screw lead (mm)	10	
	最高速度 (mm/s) Maximum speed (mm/s)	500	
	最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	30 (双滑座 Dual carriage)
		垂直使用 (kg) Vertical (kg)	20 (双滑座 Dual carriage)
部 品 Parts	定格推力 (N) Rated thrust (N)	1388	
	标准行程 (mm) Stroke pitch (mm)	25~450mm/25间隔 25mm Pitch	
	AC伺服马达容量 (W) AC servo motor output (w)	400	
	滚珠螺杆外径 (mm) Ball screw Ø (mm)	Ø16	
	联轴器 (mm) Coupling (mm)	10X14	
原点感应器 Original Sense		外挂 Outside	TPA-N674-WR

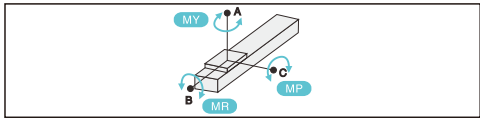
※1 反向同动只能对应导程5。
※1 Dual carriage synchronous movement in reverse direction can only fit at lead of 5mm.

※2 马达加减速设定0.2秒。
※2 Acceleration and deceleration value is set 0.2 second.

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 10 Lead	20kg	1560	153	237	20kg	214	153	1435	15kg	331	331
	35kg	890	81	126	35kg	113	81	845	20kg	220	220
	50kg	550	53	82	50kg	74	53	506	-	-	-

静态容许负载惯量 Static loading moment



MY	318
MP	318
MR	626

*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-KR43	MR-J4-40A
		有刹车(垂直式样) With brakes (vertical type)	400	220	HG-KR43B	MR-J4-40A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	400	220	MHMD042G1U	MADHT2510
		有刹车(垂直式样) With brakes (vertical type)	400	220	MHMD042G1V	MADHT2510
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	400	220	ECMA-C20604ES	ASD-B20421-B
		有刹车(垂直式样) With brakes (vertical type)	400	220	ECMA-C20604FS	ASD-B20421-B



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

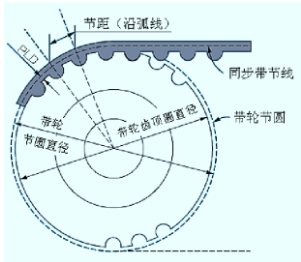
T_m=入力扭矩 T_m=Force torque

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:

节圆直径PD=节距×齿数/π
Pitch diameter PD=pitch × number of teeth/π



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	●	
搬运装置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.

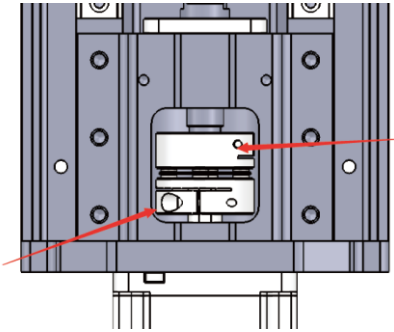


图1 Figure 1

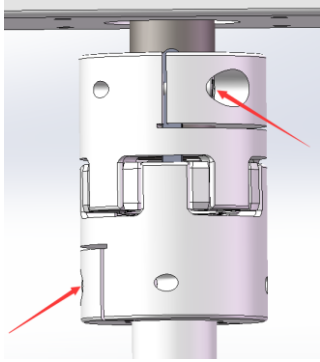
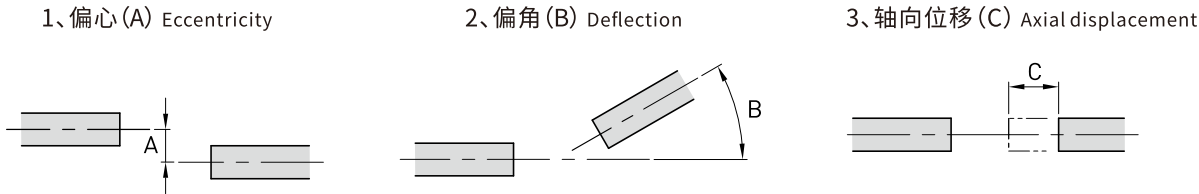


图2 Figure 2

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

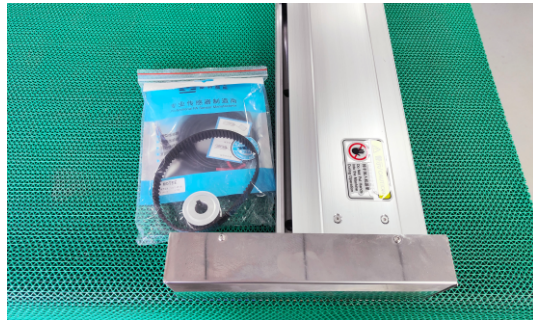
※表中的转动惯量及质量是最大孔径时之值；表中的扭转弹性常数数值仅为元件部分之值。
※The moment of inertia and mass in the table are the values at the maximum aperture; The values of torsional elasticity constants in the table are only the values of components.

同步带轮的安装方法

Installation of timing pulley and motor

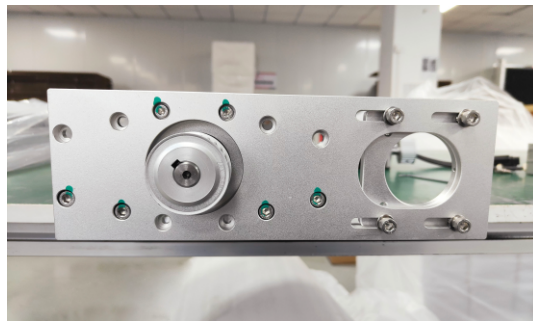
1、下图为螺杆模组的转折形式：成品模组+同步轮+同步带+槽型光电（同步带形式模组安装方法一致，可参考本文）。

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).



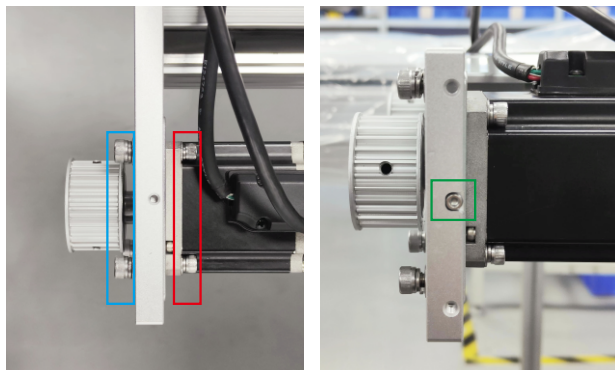
2、拆卸固定钣金的螺丝后，即可看到螺杆端同步轮我厂已安装好。只需要客户安装电机/减速机端的同步轮。

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.



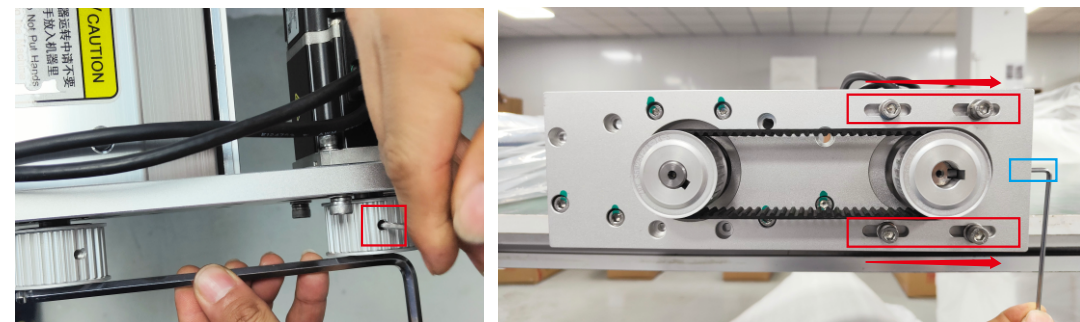
4、因拧松固定拉板的螺丝。电机端同步轮可左右来回活动。借助6MM六角扳手（不限于扳手）。

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.





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, 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.



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.



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:					
Usagerequirement	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:				

GCR
GCB
GCBS
GCRS
参考资料 Reference data