

STEEL BASE LINEAR MODULES 钢基模组

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

华东制造基地：East China manufacturing base:

电 话 Tel:0512-50127418

地 址：江苏省昆山市玉山镇元丰路平乐路58号

Address: No. 58, Pingle Road, Yuanfeng Road, Yushan Town, Kunshan City, Jiangsu Province

华南制造基地：South China manufacturing base:

地 址：深圳市坪山区坑梓街道金沙社区东联工业区5号玖钧产业园

Address: JiuJun Industrial Park, No. 5, Donglian Industrial Zone, Jinsha Community, Kengzi Subdistrict, Pingshan District, Shenzhen City

上海分公司：Shanghai Branch

地 址：上海市松江区车墩镇北松公路5255号(智兆大厦)

Address: No.5255 Beisong Highway, Chedun Town, Songjiang District, Shanghai (Zhizhao Building)

北京办事处：Beijing office:

地 址：北京经济技术开发区科创十四街6号院1号楼

Address: Building 1, Yard 6, Kechuangshisi Street, Beijing Economic and Technological Development Zone

无锡办事处：Wuxi office:

地 址：无锡新吴区浩展大厦

Address: Haozhan Building, Xinwu District, Wuxi

东莞办事处：Dongguan office:

地 址：东莞市寮步镇环翠路2号通圣高新科技园办公楼三楼

Address: 3/F, Office Building, Tongsheng Hi-Tech Industrial Park, No. 2, Huancui Road, Liaobu Town, Dongguan City

浙江办事处：Zhejiang office:

地 址：浙江省绍兴市上虞区江扬路888号中富大厦

Address: Zhongfu Building, 888 Jiangyang Road, Shangyu District, Shaoxing City, Zhejiang Province, China

华中办事处：Central China office:

地 址：武汉市江夏区关南四路35号东港科技产业园

Address: Donggang Science and Technology Industrial Park, No.35 Guannansi Road, Jiangxia District, Wuhan City

深圳办事处：Shenzhen office:

地 址：深圳市龙华区龙华街道龙观东路57号时代大厦

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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TPA-KSR-40 ----- 023P

TPA-KSR-50 ----- 037P

TPA-KSR-60 ----- 051P

TPA-KSR-86 ----- 071P

TPA-KSR-100 ----- 091P

■ 铝基内嵌模组 Linear Module with Built-in U Rail

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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, 有三大研发中心(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 three R&D centers (Kunshan and Shenzhen) and 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



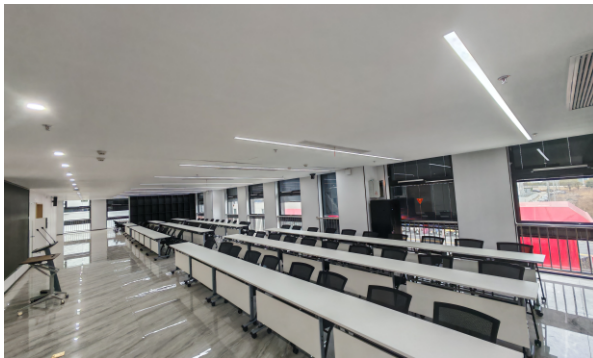
华东制造基地 East China Manufacturing Base



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



组装机间 Assembly shop

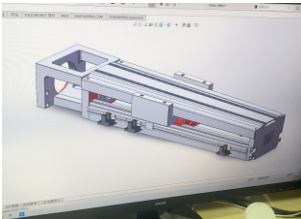


CNC加工中心 CNC machining center

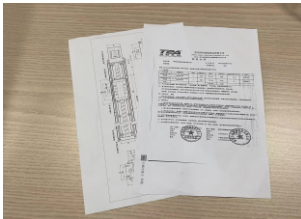


办公环境 Office environment

TPA模组生产流程 Production process



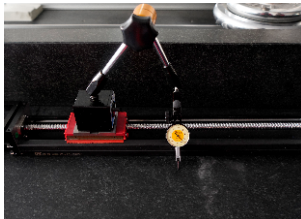
1. 按照客户需求设计定制图纸。
Design customized drawings according to customer requirements.



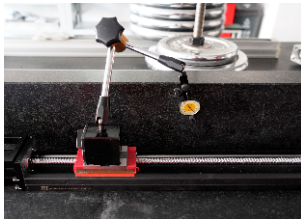
2. 订单确认, 客户回传合同及图纸。
Order confirmation, Customers return contracts and drawings.



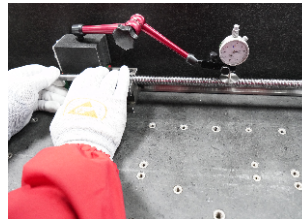
3. 按照图纸CNC生产加工。
CNC production and processing according to drawings



4. 检查底座垂直度。
Check the verticality of the base.



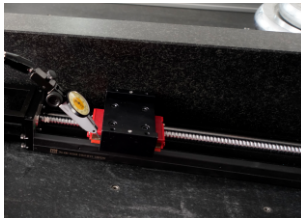
5. 检查底座平面度。
Check the flatness of the base.



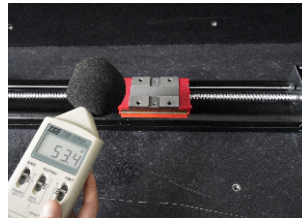
6. 检查螺杆全跳动。
Check the full run-out of the screw.



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
LINEAR SLIDING TABLE FACTORY INSPECTION REPORT

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

检验项目		检验结果	
1. 外观检查			
1.1 外观无划伤、无油污	是/否	是/否	是/否
1.2 丝杆无油污、无损伤	是/否	是/否	是/否
1.3 底座无油污、无损伤	是/否	是/否	是/否
1.4 丝杆与底座配合良好	是/否	是/否	是/否
1.5 丝杆与底座配合良好	是/否	是/否	是/否
1.6 丝杆与底座配合良好	是/否	是/否	是/否
1.7 丝杆与底座配合良好	是/否	是/否	是/否
1.8 丝杆与底座配合良好	是/否	是/否	是/否
1.9 丝杆与底座配合良好	是/否	是/否	是/否
1.10 丝杆与底座配合良好	是/否	是/否	是/否
2. 尺寸检查			
2.1 丝杆直径	φ10	φ10	φ10
2.2 丝杆长度	1000	1000	1000
2.3 丝杆螺距	4	4	4
2.4 丝杆螺距	4	4	4
2.5 丝杆螺距	4	4	4
2.6 丝杆螺距	4	4	4
2.7 丝杆螺距	4	4	4
2.8 丝杆螺距	4	4	4
2.9 丝杆螺距	4	4	4
2.10 丝杆螺距	4	4	4
3. 性能检查			
3.1 丝杆与底座配合良好	是/否	是/否	是/否
3.2 丝杆与底座配合良好	是/否	是/否	是/否
3.3 丝杆与底座配合良好	是/否	是/否	是/否
3.4 丝杆与底座配合良好	是/否	是/否	是/否
3.5 丝杆与底座配合良好	是/否	是/否	是/否
3.6 丝杆与底座配合良好	是/否	是/否	是/否
3.7 丝杆与底座配合良好	是/否	是/否	是/否
3.8 丝杆与底座配合良好	是/否	是/否	是/否
3.9 丝杆与底座配合良好	是/否	是/否	是/否
3.10 丝杆与底座配合良好	是/否	是/否	是/否

检验日期: _____ 检验人: _____
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.



综合解说

Comprehensive explanation

注意事项 Matters needing attention

钢基模组系列产品属于机电设备,为维护使用者的安全,在选择机型及实际操作本产品之前,请务必详细阅读相关型录及下列注意事项并依照指示使用,若未依照本注意事项使用本产品而造成功能异常、损坏或其他事故本公司概不负责。

Steel module series products belong to mechanical and electrical equipment. In order to maintain the safety of users, please read the relevant catalogues and the following precautions carefully before selecting models and actually operating this product. And use it according to the instructions. If the product is not used according to this notice, the company will not be responsible for abnormal function, damage or other accidents.

人生安全 Life safety

- ✱ 本产品适用于工业用途,不可应用在直接与人命或人员相关的保安元件上。
- ✱ 本产品操作运转时人员应维持在机械动作范围外,以免夹伤或发生其他安全事故。
- ✱ 本产品接装电机并通电时,装置心律调节器者应维持在一公尺距离外,以免受到干扰。
- ✱ 本产品勿装置在火源、易燃物、可燃气体附近,以防火灾。

This product is suitable for industrial use, and cannot be applied to security components directly related to human life or personnel. During the operation of this product, personnel should be kept out of the range of mechanical action to avoid pinching or other safety accidents. When this product is connected to the motor and powered on, the pacemaker should be kept at a distance of one meter to avoid interference. This product should not be installed near fire sources, inflammables and combustible gases to prevent fire.

储放与安装 Storage and installation

- ✱ 搬运时应避免坠落或碰撞。
- ✱ 储放本产品时,建议平放并应妥善包装,避免暴露于高温、低温、潮湿的环境。
- ✱ 切勿自行拆解或改装本产品,以免异物进入或产品破坏,造成功能异常或工安事故。
- ✱ 安装时应将本产品锁固,以免因振动松脱。
- ✱ 安装联轴器及电机时,须选用适当的元件,并注意对准轴中心线后将螺丝锁固,切勿强行安装。

Avoid falling or collision when handling. When storing this product, it is recommended to lay it flat and properly package it to avoid exposure to high temperature, low temperature and humidity. Do not disassemble or modify this product by yourself, so as to avoid foreign matter entering or product damage, resulting in abnormal function or work safety accidents. When installing, lock the product to avoid loosening due to vibration. When installing the coupling and motor, select appropriate components, and pay attention to lock the screws after aligning with the axis center line, and do not install them forcibly.

操作使用 Operation use

- ✱ 操作时须依照型录记载的额定条件,例如最高转速、负荷等,以免造成功能损坏或工安事故。
- ✱ 应避免粉尘、切屑等异物侵入滚珠循环系统内,造成损坏、寿命减短或功能异常。
- ✱ 操作环境温度应在80℃以下,若需应用在高温场所的产品,请洽谈TPA业务。
- ✱ 环境特殊时,例如强大振动、真空室、无尘室、腐蚀性化学物、有机溶剂或药剂、极高温或低温、潮湿溅水、油滴油雾、高盐分、重负荷、垂直或悬臂安装等,请先洽谈TPA业务确认本产品适用条件。
- ✱ 垂直安装时,负载有坠落的危险,建议加装适当的刹车,并于使用前确认刹车功能正常。

Operation shall be in accordance with rated conditions recorded in catalogue, such as maximum speed and load, so as to avoid functional damage or work safety accidents. Avoid dust, chips and other foreign bodies invading the ball circulation system, causing damage, shortened service life or abnormal function. The operating temperature should be below 80°C. If you need to apply products in high temperature places, please discuss TPA business. Under special circumstances, such as strong vibration, vacuum chamber, clean room, corrosive chemicals, organic solvents or chemicals, extremely high or low temperature, wet splashing water, oil droplets and fog, high salinity, heavy load, vertical or cantilever installation, etc., please negotiate TPA business first to confirm the applicable conditions of this product. During vertical installation, the load is in danger of falling. It is recommended to install appropriate brakes, and make sure that the brake function is normal before use.

维护 maintenance

- ✱ 初次使用前应先将润滑油补满,请注意油品种类,不同的润滑油不可混用。
- ✱ 正常使用状况下建议每行100km应检查运转状况一次‘清除积污’并补充润滑油导轨及螺杆均应保持润滑。

Fill up the lubricating oil before using for the first time. Please pay attention to the types of oil products. Different lubricating oils cannot be mixed. Under normal operating conditions, it is recommended to check the operating condition once every 100km to 'clean up accumulated dirt' and replenish lubricating oil. Guide rails and screws should be kept lubricated.

产品特色 Product features

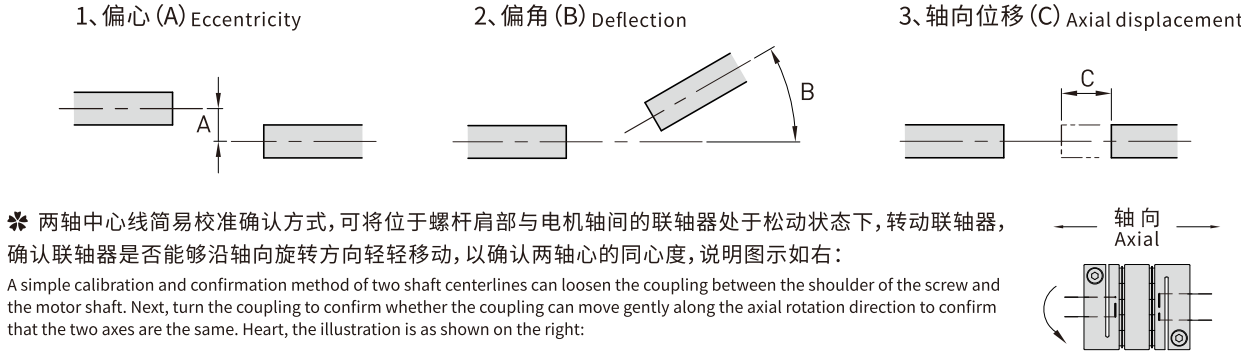
- ✱ 产品多样化可搭配需要选用。
- ✱ 驱动方式:滚珠螺杆。
- ✱ 电机出力:可自行选配伺服电机或步进电机。
- ✱ 电机连接:直接、上接、下接、左接、右接,依使用空间而定。
- ✱ 有效行程:50~1600mm(依螺杆转速限制)。
- ✱ 组装与维护容易。
- ✱ 可依顾客需要做客制化、单件或组合件的特殊设计制造。
- ✱ 单轴可组合成多轴使用。

Diversified products can be matched and needed to be selected. Driving mode: ball screw. Motor output: servo motor or stepping motor can be selected. Motor connection: direct, upper connection, lower connection, left connection and right connection, depending on the use space. Effective travel: 50 ~ 1600 mm (limited by screw speed). Easy to assemble and maintain. According to customers' needs, we can make customized, single-piece or combined special design and manufacture. Single axis can be combined into multiple axes.

电机法兰座、电机与联轴器安装注意事项 Precautions for installation of motor flange seat, motor and coupling

- ✱ 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 deviations should be paid attention to. The illustration is as follows:

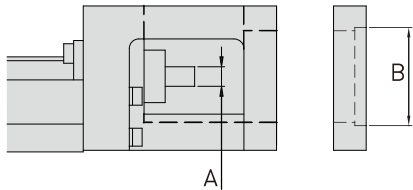


- ✱ 两轴中心线简易校准确认方式,可将位于螺杆肩部与电机轴间的联轴器处于松动状态下,转动联轴器,确认联轴器是否能够沿轴向旋转方向轻轻移动,以确认两轴心的同心度,说明图示如右:

A simple calibration and confirmation method of two shaft centerlines can loosen the coupling between the shoulder of the screw and the motor shaft. Next, turn the coupling to confirm whether the coupling can move gently along the axial rotation direction to confirm that the two axes are the same. Heart, the illustration is as shown on the right:

- ✱ 螺杆肩部 (A)与电机法兰座定位孔 (B)的同心度,请制作轴孔同心治具协助安装,说明图示如下:

For the concentricity of the screw shoulder (A) and the positioning hole (B) of the motor flange seat, please make a concentric jig for the shaft hole to assist the installation. The illustration is as follows:



安装注意事项:Installation precautions:

- 电机法兰座安装时,请注意电机法兰座定位孔与螺杆肩部的偏差需在联轴器相关容许偏差值内。
- 螺杆肩部与电机轴两轴的偏差过大时,仍强行装上联轴器,会造成联轴器或螺杆肩部断裂的情况产生,所以请确认两轴的偏差是在联轴器可以容许偏差值内。
- 选用联轴器时,建议选择可吸收偏心、偏角与轴向位移的挠性联轴器。

- When installing the motor flange seat, please note that the deviation between the positioning hole of the motor flange seat and the shoulder of the screw should be within the allowable deviation of the coupling.
- When the deviation between the screw shoulder and the motor shaft is too large, the coupling is still forcibly installed, which will cause the fracture of the coupling or the screw shoulder, so please make sure that the deviation between the two shafts is connected. The shaft can be within the allowable deviation.
- When selecting coupling, it is recommended to choose flexible coupling which can absorb eccentricity, deflection angle and axial displacement.



电机负载计算 Motor load calculation

1、确认负载机构的运动条件要求,包括加减速速度,运动速度,机构的重量,机构的运动方式。
Confirm the movement conditions of the loading mechanism, including acceleration and deceleration, movement speed, weight of the mechanism and movement mode of the mechanism.

2、负载之惯量计算 Calculation of inertia of load

直线运动负载惯量计算方式: Calculation method of linear load inertia:

$$J_L = W \times \left(\frac{V}{2 \times \pi \times N \times 10} \right)^2 = W \times \left(\frac{\Delta S}{20 \times \pi} \right)^2$$

J_L: 负载惯量, 计算至电机输出轴[kg·cm²]

V: 负载直线运动速度[mm/min]

ΔS: 电机转一圈, 负载的移动量[mm]

W: 负载重量[kg]

N: 电机转速[r/min]

J_L: load inertia, calculated to the output shaft of the motor [kg cm²]

V: linear movement speed of load [mm/min]

ΔS: the movement of the load [mm] when the motor rotates once.

W: load weight [kg]

N: Motor speed [r/min]

3、由负载惯量与电机惯量的比例原则, 选出适当的电机规格。

According to the proportional principle of load inertia and motor inertia, the appropriate motor specification is selected.

4、将选定的电机惯量合并负载惯量, 计算出加速转矩及减速转矩。

Combine the selected motor inertia with the load inertia to calculate the acceleration torque and deceleration torque.

加速转矩: Acceleration torque:

$$T_a = \frac{(J_L + J_M) \times N}{9.55 \times 10^4 \times T_{psa}}$$

J_L: 负载惯量, 计算至电机输出轴[kg·cm²]

J_M: 电机惯量[kg·cm²]

N: 电机转速[r/min]

T_{psa}: 加速时间[s]

T_{psd}: 减速时间[s]

减速转矩: Deceleration torque:

$$T_d = \frac{(J_L + J_M) \times N}{9.55 \times 10^4 \times T_{psd}}$$

J_L: load inertia, calculated to the output shaft of the motor [kg cm²]

J_M: Motor inertia [kg cm²]

N: Motor speed [r/min]

T_{psa}: Acceleration time [s]

T_{psd}: Deceleration time [s]

5、依据负载重量, 安装方式, 磨擦系数, 电机效率, 计算出等速运动时的负荷转矩。

According to the load weight, installation method, friction coefficient and motor efficiency, the load torque at constant speed is calculated.

$$T_L = \frac{F \times V}{2 \times 10^3 \times \pi \times \eta \times N} = \frac{F \times \Delta S}{2 \times 10^3 \times \pi \times \eta}$$

J_L: 直线运动时的轴向力 F=F_c+μ×(W×g+F₀)

T_L: 负荷转矩[N·m]

F_c: 轴方向的外加作用力[N]

F₀: 负载对SR模组的外加正压力[N]

W: 负载重量(含滑台)[kg]

μ: 磨擦系数

η: 机械效率

V: 负载直线运动速度[mm/min]

N: 电机转速[r/min]

g: 重力加速度(9.8m/s²)

ΔS: 电机转一圈, 负载的移动量[mm]

J_L: Axial force in linear motion

T_L: Torque [N·m]

F_c: Axial applied force [N]

F₀: External positive pressure on the loaded SR module [N]

W: Weight (including sliding table) [kg]

μ: coefficient of friction

η: Mechanical efficiency

V: Linear motion speed of load [mm/min]

N: Motor speed [r/min]

g: Gravity acceleration (9.8m/s²)

ΔS: The movement of the load [mm] after one revolution of the motor.

6、选定电机的最大输出转矩, 须大于加速转矩和负荷转矩相加的和; 如果不符合条件, 必须选用其他型号, 再计算验证至符合要求为止。

The maximum output torque of the selected motor must be greater than the sum of acceleration torque and load torque; If it does not meet the requirements, other models must be selected and then calculated. Until it meets the requirements.

7、依据负荷转矩、加速转矩、减速转矩及保持转矩, 求出连续实效转矩。

According to the load torque, acceleration torque, deceleration torque and holding torque, calculate the continuous effective torque.

$$T_{RMS} = \sqrt{\frac{T_a^2 \times T_{psa} + T_L^2 \times t_c + T_d^2 \times T_{psd} + T_{LH}^2 \times t_h}{T_f}}$$

T_{psa}: 加速时间[s]

T_{psd}: 减速时间[s]

T_f: 周期时间

T_L: 负荷转矩[N·m]

T_{LH}: 保持转矩(水平运动时, T_{LH}=0)

T_{psa}: Acceleration time [s]

T_{psd}: Deceleration time [s]

T_f: Periodic time

T_L: Torque [N·m]

T_{LH}: Holding torque (when moving horizontally T_{LH}=0)

t_c: 等速时间[s]

t_h: 停止时间[s]

T_a: 加速转矩

T_d: 减速转矩

t_c: Isokinetic time [s]

t_h: Stop time [s]

T_a: Acceleration torque

T_d: Deceleration torque

8、选定电机的额定输出转矩必须大于连续实效转矩; 如果不符合条件, 必须选用其他型号, 再计算验证至符合要求为止。

The rated output torque of the selected motor must be greater than the continuous effective torque; If it does not meet the requirements, other models must be selected, and then calculated and verified to meet the requirements. Until now.

安装 Installation

滚珠螺杆型式若确定用途为垂直方向(z轴)请注意, 垂直安装属于特殊使用状态, 承载负荷请在表列最大可搬重量(直立)范围内使用, 除此之外, 时规皮带型式禁止垂直方向使用。

*注意: 为防止负载滑落, 垂直安装时, 采用电机宜含刹车。

If the ball screw type is determined to be used in the vertical direction (Z axis), please note that the vertical installation is a special use state, and the bearing load should be used within the maximum movable weight (vertical) listed in the table, except that Besides, it is forbidden to use the timing belt type in the vertical direction.

* Note: In order to prevent the load from slipping, when installing vertically, the motor should include brakes.

保养 Maintenance

钢基模组需要维修保养的部分包括滚珠螺杆、U型导轨及相关配件。每三个月或每行走100公里的距离后, 必须对滚珠螺杆和直线导轨补充润滑剂, 并请检查有无任何污垢或碎屑在系统内, 如果油脂变得肮脏时, 请更换油脂。如有任何保养方面的特殊问题请与TPA联络。

Parts of the steel base module that need maintenance include ball screws, U-shaped guide rails and related accessories. Every three months or every 100 kilometers, lubricant must be added to the ball screw and linear guide rail, and please check whether there is any dirt or debris in the system. If the grease becomes dirty, please replace the grease. Please contact TPA if you have any special maintenance problems.

产品应用 Product application

钢基模组系列产品用途广泛, 一般自动化设备均可应用, 举例如下:

自动锡焊机、锁螺丝机、料架零件盒取放、小型堆栈、黏胶涂布机、零附件取放搬运、CCD镜头移动、自动喷漆机、自动上下料装置、切割机、电子元件生产设备、小型装配线、小型压台、点焊机、表面复膜制程、自动贴标签机、液料灌注分装、零附件检验设备、生产线工件整理、材料充填装置、包装机、刻印机、输送带移位、工件清洁装置等等。

ISteel base module series products are widely used and can be used in general automation equipment, for example:

Automatic tin welding machine, screw-locking machine, pick-and-place of rack parts box, small stack, glue coating device, pick-and-place and transport of parts, CCD lens movement, automatic paint sprayer, automatic loading and unloading device, cutting machine, Electronic component production equipment, small assembly line, small pressing table, spot welding machine, surface laminating process, automatic labeling machine pasting, liquid material pouring and packaging, spare parts inspection equipment, work piece finishing in production line, and material processing. Material filling device, packaging machine, marking machine, conveyor belt shift, workpiece cleaning device, etc.



寿命的计算 Calculation of life span

1、寿命。Life.

当线性滑轨承受负荷并作运动时，珠道表面与钢珠因不断地受到循环应力的作用，一但到达滚动疲劳的临界值，接触面就会开始产生疲劳破损，并在部份表面发生鱼鳞状薄片的剥落现象，此种现象叫做表面剥离。寿命的定义即为珠道表面及钢珠因材料疲劳而产生表面剥离时为止的总运行距离。

When the linear guide rail bears the load and moves, the bead surface and the steel ball are constantly subjected to cyclic stress, and once they reach the critical value of rolling fatigue, they are connected. The contact surface will start to be fatigued and damaged, and the peeling phenomenon of fish scales will occur on some surfaces, which is called surface peeling. Life is defined as The total running distance between the bead surface and the surface peeling of steel balls due to material fatigue.

2、额定寿命。Rating life.

单轴机器人的寿命，具有很大的分散性，即使同一批制造的产品，在相同的运动状态下使用，寿命也会有所不同。因此额定寿命即用来定义钢基模组在操作过程中寿命的基准。

The life of a single-axis robot is highly dispersed. Even if the products manufactured in the same batch are used in the same motion state, the life will be different. So, rating life is the benchmark used to define the life of steel-based modules during operation.

3、钢基模组的额定寿命计算。Calculation of rated life of steel base module.

单轴机器人的寿命计算可分为两部分进行，包括直线导轨与滚珠螺杆，并以计算过程中数值较小者为该模组的额定寿命。其计算式分别如下：

The life calculation of single-axis robot can be divided into two parts, including linear guide rail and ball screw, and the rated life of the module is the one with the smaller value in the calculation process. The formulas are as follows:

线性滑轨 Linear slide rail

$$L = \left(\frac{f_i}{f_w} \cdot \frac{C}{P_n} \right)^3 \times 50 \text{ km}$$

L : 额定寿命 [公里km]
f_t: 接触系数 [参考表格1]
f_w: 负荷系数 [参考表格2]
C : 基本动额定负荷 [N]
P_n:工作负荷 [N]

L : Rated life [km]
f_t: Contact coefficient [refer to Table 1]
f_w: Load factor [refer to Table 2]
C : Basic dynamic rated load [N]
P_n:Workload [N]

表格1 Form 1

滑座型式 Sliding seat type	接触系数f _t Sliding seat type
A1, S1	1
A2, S2	0.81

表格2 Form 2

工作环境 Working environment		负荷系数f _w Load factor
负荷状况 Load condition	速度[V] Speed	
无冲击力且平滑 No impact and smooth	低速V Low speedV<15m/min	1 ~ 1.5
普通负荷力 Ordinary load force	中速15 Medium speed 15<V<60m/min	1.5 ~ 2
受冲击力及振动 Affected by impact force and vibration	高速V High speed v>60m/min	2 ~3.5

滚珠螺杆及轴承 Ball screw and bearing

$$L = \left(\frac{1}{f_w} \cdot \frac{C_a}{P_{a,n}} \right)^3 \times 10^6 \text{ rev}$$

L : 额定寿命 [旋转数]
f_w: 负荷系数 [参考表格2]
C : 基本动额定负荷 [N]
P_n:轴向工作负荷 [N]

L : Rated life [rotation number]
f_w: Load factor [refer to Table 2]
C : Basic dynamic rated load [N]
P_n:Axial working load [N]

润滑 Lubrication

钢基模组若没有适当的给予润滑，滚动部分的摩擦就会增加，长期的使用下来会成为缩短寿命的主要原因。润滑剂便提供下列几种作用：

- ✳ 减少滚动部分的摩擦、防止烧伤并降低磨损。
 - ✳ 在滚动的面与面之间形成油膜，可延长滚动疲劳寿命。
 - ✳ 防止生锈。
- If the steel base module is not properly lubricated, the friction of rolling parts will increase, and the long-term use will be the main reason for shortening the life. Lubricants provide the following functions:
- ✳ Reduce friction of rolling parts, prevent burns and reduce wear.
 - ✳ Forming oil film between rolling surfaces can prolong the rolling fatigue life.
 - ✳ Prevent rust.

1、润滑油脂。Lubricant grease

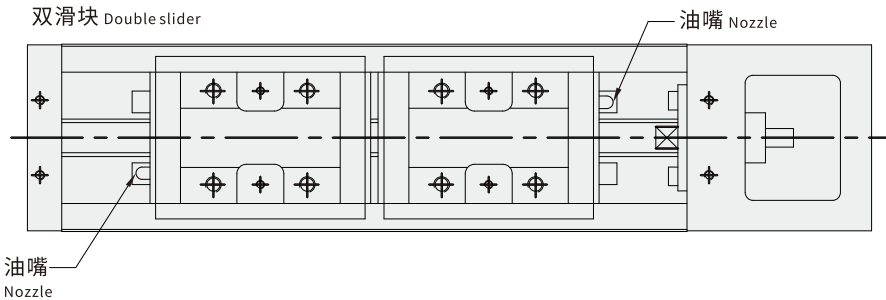
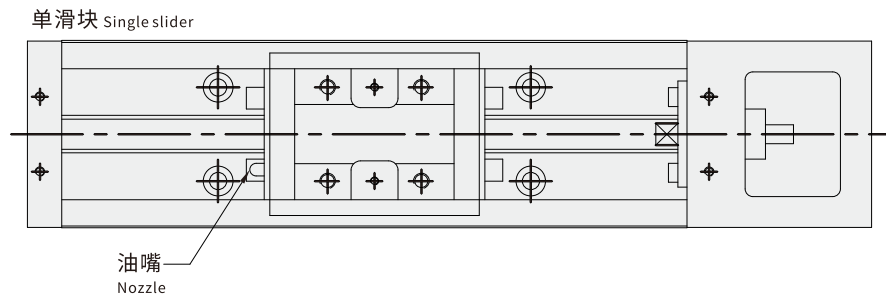
润滑油脂虽然较不易流失，但为避免因润滑损耗造成润滑不足，建议客户使用距离达100km时，应再补充润滑油脂一次，此时可用注油枪借由滑块上所附油嘴，将油脂打入滑块中。润滑油脂适用于速度不超过60m/min，且对冷却作用无要求的场合。

Although lubricating grease is not easy to be lost, in order to avoid insufficient lubrication caused by lubrication loss, it is suggested that customers should replenish lubricating grease l when the distance is 100km. Second, at this time, the grease gun can be used to drive the grease into the slider through the nozzle attached to the slider. Grease is suitable for speed less than 60m/min, and has no cooling effect. The occasion of the request.

$$T = \frac{100 \times 1000}{V_e \times 60}$$

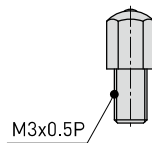
T : 注油频率 [hour] T : Oil injection frequency [hour]
V_e: 速度 [m/min] V_e: Speed [m/min]

2、油嘴配置图。Nozzle configuration diagram

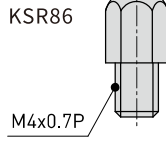


KSR使用油嘴
KSR uses oil nozzle.

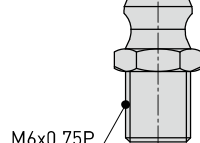
KSR40



KSR50
KSR60
KSR86



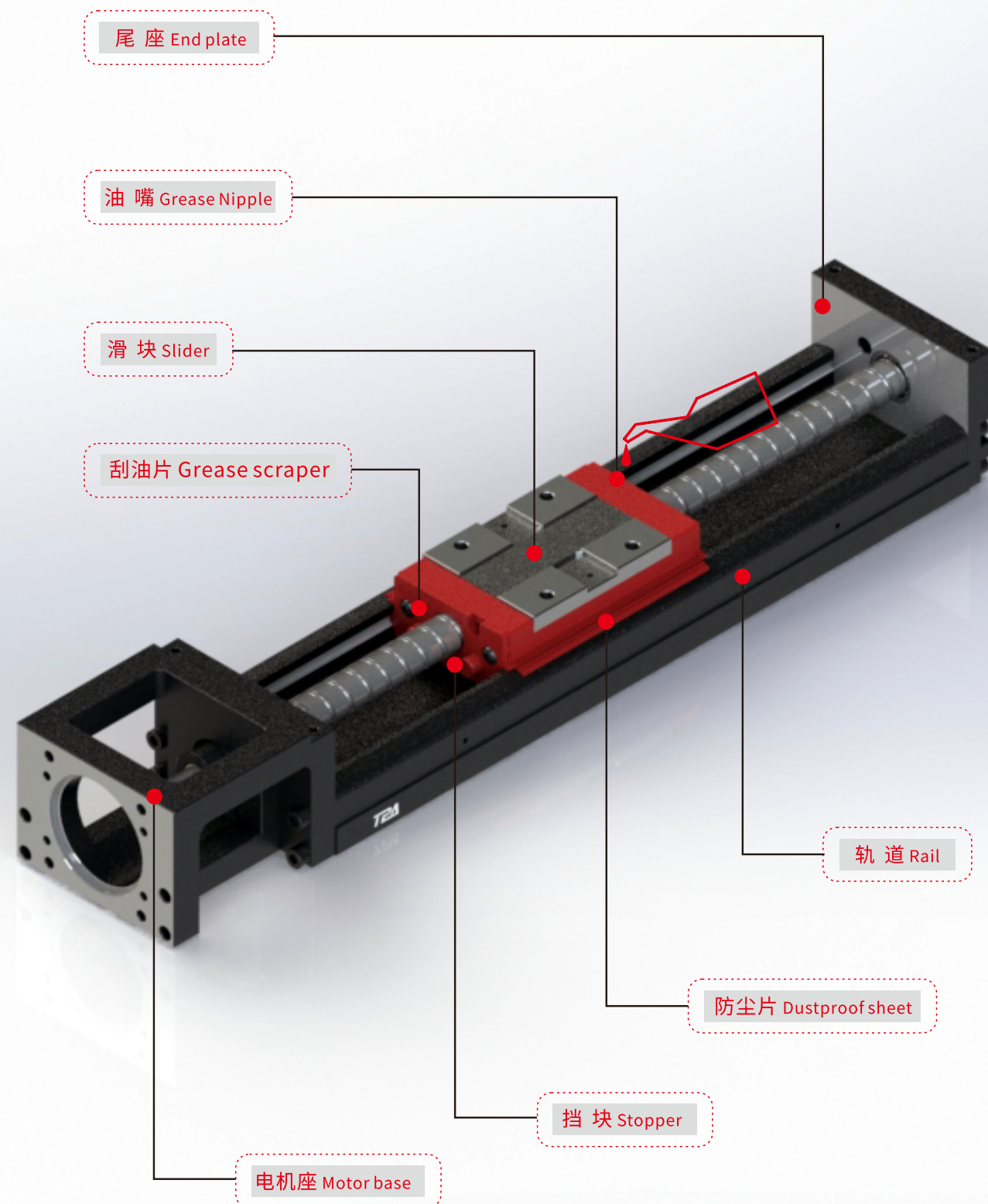
KSR100
KSR130





钢基内部结构图说明

Description of internal structure diagram of steel base



滚珠螺杆 Ball screw

由高精度的滚珠螺杆做为传动结构, 以及配合最佳化设计的U型轨道做为导引结构, 来确保精度与刚性需求。
The high-precision ball screw is used as the transmission structure, and the U-shaped track is matched with the optimized design. As a guide structure, to ensure the accuracy and rigidity requirements.

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.

组装, 省时、方便 Easy assemble

将滚珠螺杆和U型轨道整合在一起, 因此可提供具有高精度、高刚性、快速安装等特性。
The ball screw and the U-shaped rail are integrated together, so tools can be provided. It has the characteristics of high precision, high rigidity and quick installation.

特性 Characteristics

- | | | |
|--------------------------------|-------------------|---------------------------|
| ①最简化设计。 | ②高刚性。 | ③配置齐全。 |
| ④体积小、重量轻。 | ⑤高精度。 | ⑥安装维护方便。 |
| ① Simplified design. | ② High rigidity. | ③ Complete configuration. |
| ④ Small size and light weight. | ⑤ High precision. | ⑥ Easy to install. |

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. |

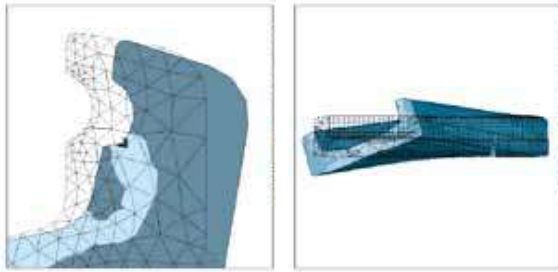


主要特性

Key property

工业机器人 Industrial robot

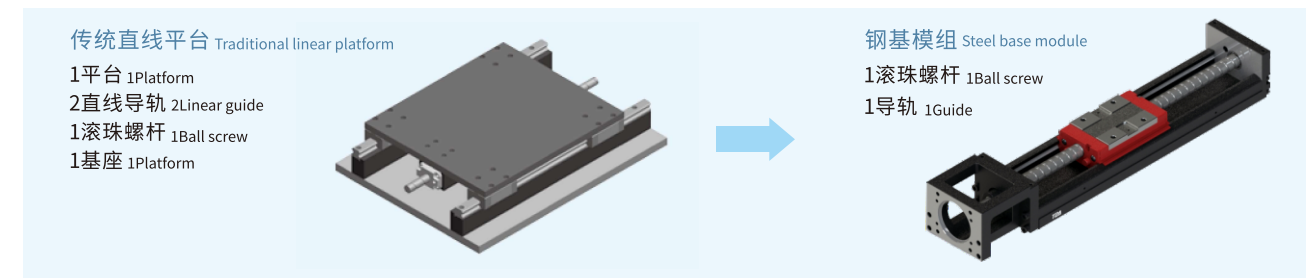
- ✱ 模组化设计, 体积更小。
- ✱ 标准化生产, 交期快, 成本更低。
- ✱ U型钢基轨道, 局部淬火, HRC58度以上, 高强度, 高承载。
- ✱ 通用性高, 规格型号全, 适应各行业客户需要。
- ✱ 最适化设计。轨道结构由有限元素分析, 得到最好刚性与重量。
- ✱ Modular design, smaller size.
- ✱ Standardized production, fast delivery and lower cost.
- ✱ U-shaped steel base track, local quenching, HRC58 above 58 degrees, high strength, high load.
- ✱ High versatility, complete specifications and models, to meet the needs of customers in various industries.
- ✱ Optimal design. The track structure is analyzed by finite elements, and the best rigidity and weight are obtained.



1. 模组化 Modular

钢基模组透过模组化之设计, 整合滚珠螺杆和U型轨道, 可节省以往传统致动平台需经过导引和驱动元件之选用、安装校验、体积大、占空间等缺点因此钢基模组可提供快速选用、安装、体积精简、高刚性等特性, 可大幅减少客户端的使用空间与时间。

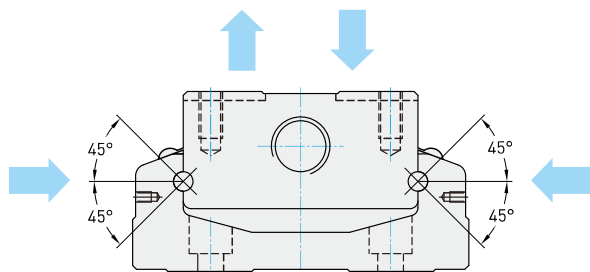
Through modular design, the steel base module integrates ball screw and U-shaped rail, which can save the traditional actuating platform from having to go through the selection of guiding and driving components, installation and verification, large volume and occupying space. Therefore, the steel-based module can provide the characteristics of quick selection, installation, compact size, high rigidity and so on, which can greatly reduce the use space and time of the client.



2. 四方向等负荷 Four-direction equal load

轨道和滑块之间的回流系统, 其滚珠与珠槽接触面采用2列式歌德牙型之设计, 具有45度接触角之特性, 该设计可使得钢基模组可承受四方向等负荷之能力。

And the contact surface between the ball and the bead groove adopts a 2-row Goethe tooth type. The design has the characteristics of 45-degree contact angle, which enables the steel-based module to withstand four directions. The ability of equal load.

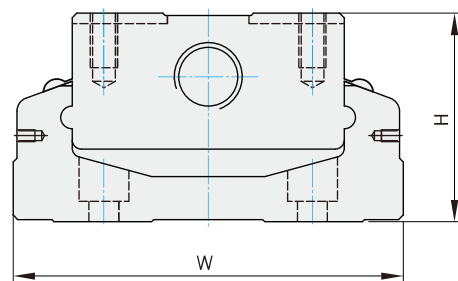


3. 规格全 Full line of specification

针对各种不同的使用需求, 开发出下列多种钢基模组系列模组提供客户依使用需求、空间、负载来选用。

According to various use requirements, the following series of steel-based modules have been developed for customers to choose according to use requirements, space and load.

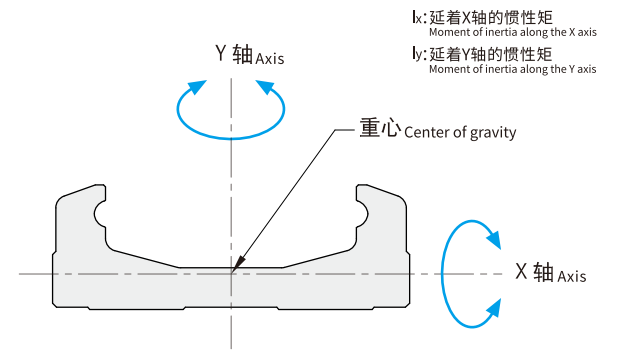
型 号 Model	W	H
TPA-KSR-30	30	15
TPA-KSR-40	40	20
TPA-KSR-50	50	26
TPA-KSR-60	60	33
TPA-KSR-86	86	46
TPA-KSR-100	100	55



4. 高刚性 High rigidity

轨道构型采用U型断面, 并透过有限元素分析软体的设计, 在体积与刚性上取得平衡点, 使得轨道具有高刚性、体积精简、重量轻等特性。The configuration of the track adopts U-shaped section, and through the design of finite element analysis software, the balance between volume and rigidity is achieved, which makes the track have the characteristics of high rigidity, compact volume and light weight.

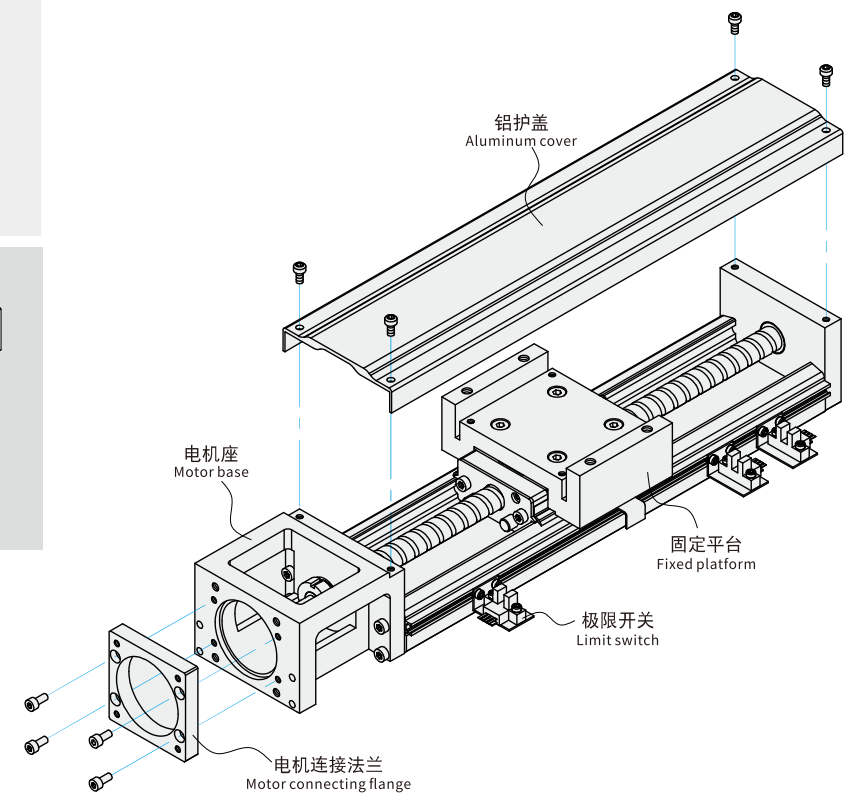
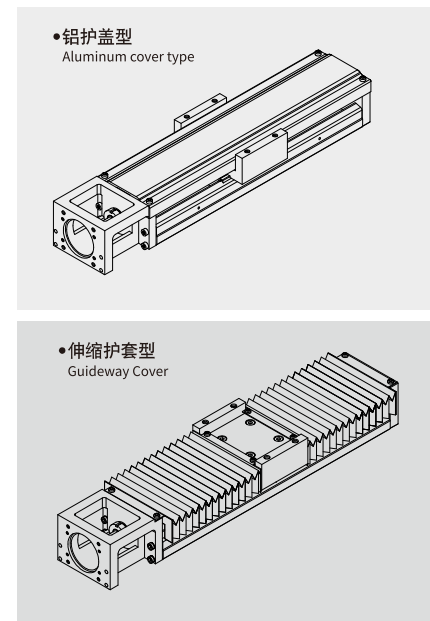
惯性矩 Moment of inertia		单位 Unit: mm ⁴	
型 号 Model	I _x	I _y	
TPA-KSR-30	7.554x10 ²	12.726x10 ³	
TPA-KSR-40	3.533x10 ³	5.137x10 ⁴	
TPA-KSR-50	9.6x10 ³	1.34x10 ⁵	
TPA-KSR-60	5.056x10 ⁴	2.802x10 ⁵	
TPA-KSR-86	7.455x10 ⁴	1.134x10 ⁶	
TPA-KSR-100	1.296x10 ⁵	2.035x10 ⁶	

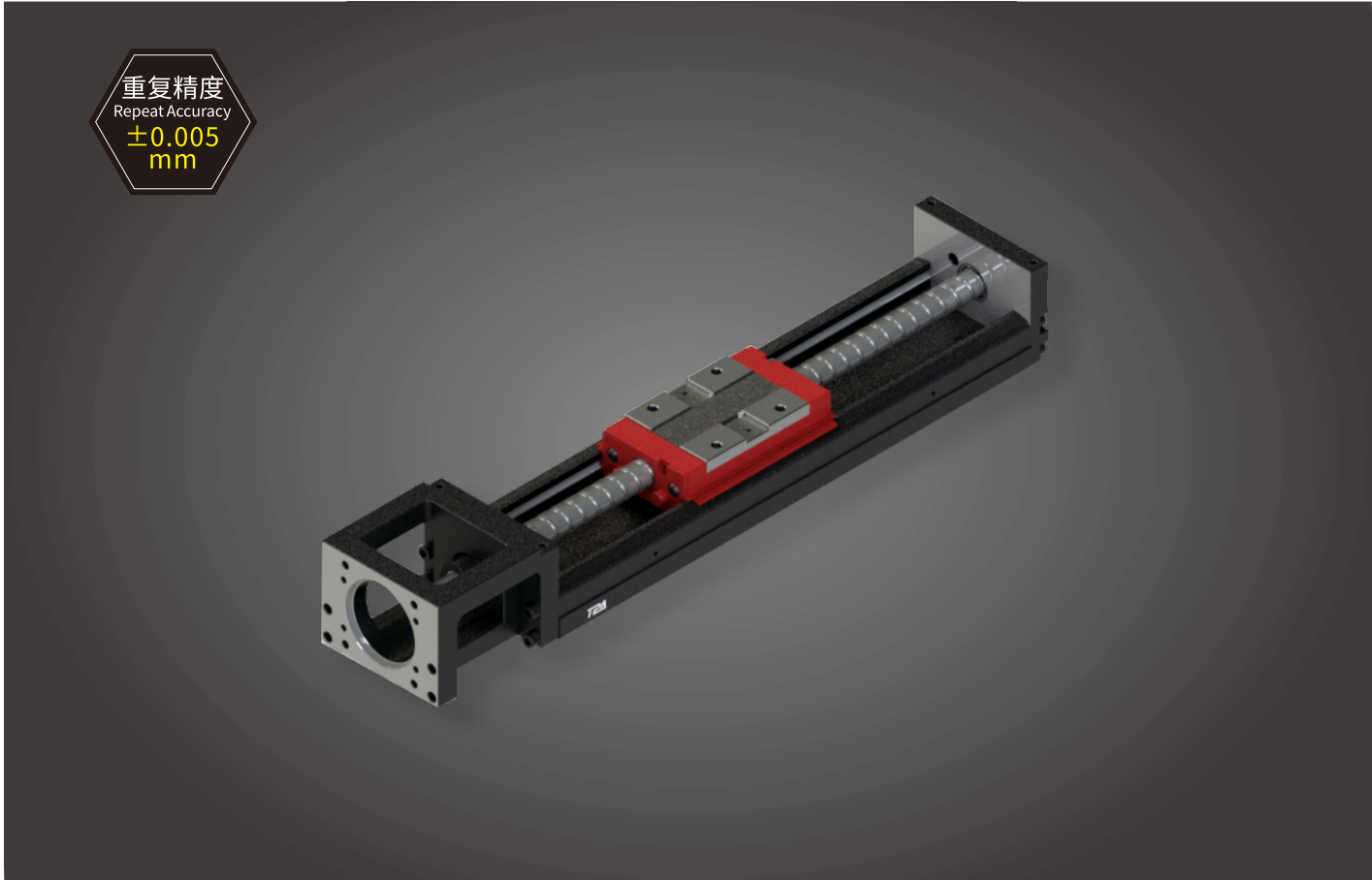


5. 选购配件 Accessories selection

为了因各种的使用需求, 可另外选购铝护盖、伸缩护套、电机连接法兰、极限开关。

- ✱ 铝护盖、伸缩护套: 可防止异物、杂质进入工业机器人的内部而影响其使用寿命、精度、顺畅度。
 - ✱ 电机连接法兰: 可将各种不同电机锁在工业机器人上。
 - ✱ 极限开关: 提供滑块定位、启动原点以及防止滑块超过行程的安全机制。
- For various use requirements, aluminum protective cover, telescopic sheath, motor connecting flange and limit switch can be purchased separately.
- ✱ Aluminum protective cover and telescopic sheath: It can prevent foreign matter and impurities from entering the interior of industrial robot and affecting its service life, accuracy and smoothness.
 - ✱ Motor connecting flange: various motors can be locked on industrial robots.
 - ✱ Limit switch: provides a safety mechanism for positioning the slider, starting the origin and preventing the slider from exceeding the stroke.





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.

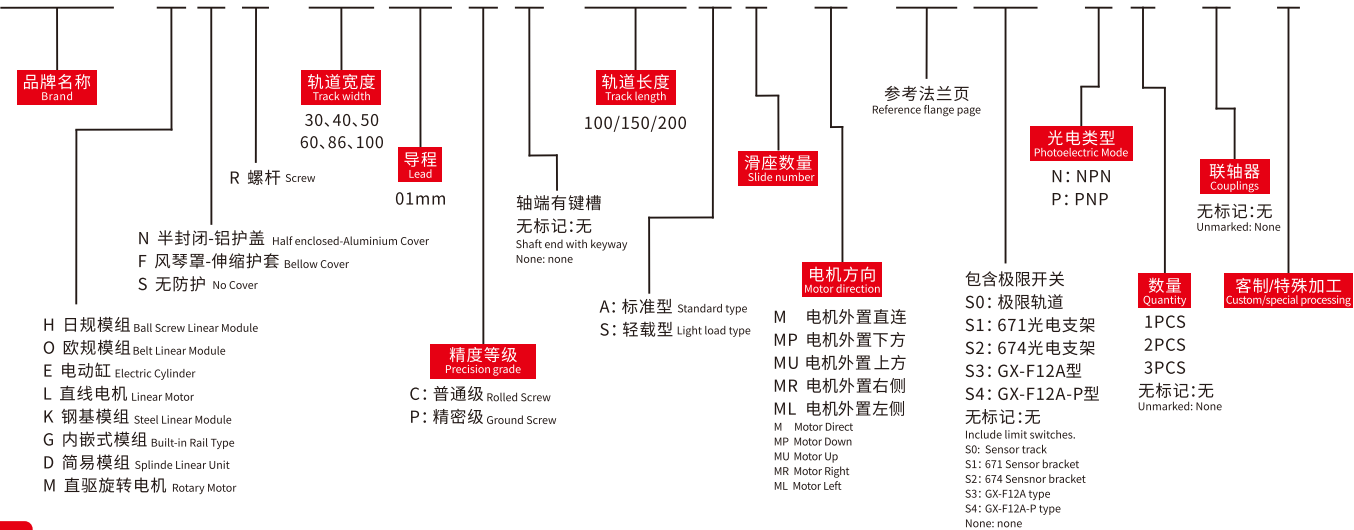
最大行程
Max Stroke 156mm

最高速度
Max Speed 50mm/sec

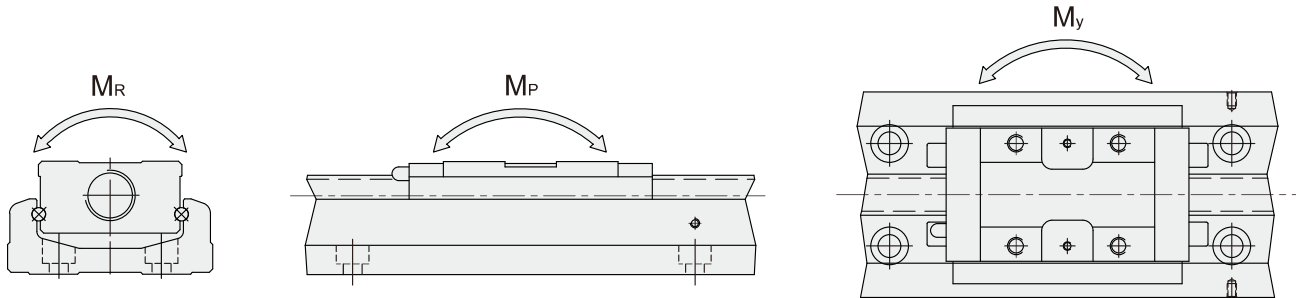
滚珠螺杆
Ball Screw Ø6mm

型号表达方式 Ordering method

TPA-KSR-3001CK-100A1-M-F0S2-N3-D-F



负载规格 Load specification



技术参数 Technical parameter

型 号 Model		滚 珠 螺 杆 Ballscrew				线 性 滑 轨 Linear slider rail															
		公称外径 (mm) Nominal outer diameter	导程 (mm) Lead	基本动态额定负荷 (N) Basic dynamic rated load	基本静额定负荷 (N) Basic static rated load	基本动态额定负荷 (N) Basic dynamic rated load		基本静额定负荷 (N) Basic static rated load		容 许 静 力 矩 Allowable static moment											
										俯仰 M _P (N-m)				偏扭 M _y (N-m)				滚动 M _R (N-m)			
						滑座 A Slide carriage	滑座 S Slide carriage	滑座 A Slide carriage	滑座 S Slide carriage	滑座 A1 Slide carriage	滑座 A2 Slide carriage	滑座 S1 Slide carriage	滑座 S2 Slide carriage	滑座 A1 Slide carriage	滑座 A2 Slide carriage	滑座 S1 Slide carriage	滑座 S2 Slide carriage	滑座 A1 Slide carriage	滑座 A2 Slide carriage	滑座 S1 Slide carriage	滑座 S2 Slide carriage
KSR 3001	精密级 Precise grade	6	1	647	1088	2210	—	3510	—	14	73	—	—	14	73	—	—	41	82	—	—
	一般级 General grade			618	1079																

精度等级 Precision grade

单位:mm									
型 号 Model	轨 道 长 度 Track length	定 位 重 现 性 Positioning reproducibility		定 位 精 度 positioning accuracy		行 走 平 行 度 Walking parallelism		最大启动扭力:(N-cm) Maximum starting torque	
		精密级 Precise grade	一般级 General grade	精密级 Precise grade	一般级 General grade	精密级 Precise grade	一般级 General grade	精密级 Precise grade	一般级 General grade
KSR 30	75	±0.003	±0.004	0.020	0.040	0.010	0.020	1.2	0.8
	100								
	125								
	150								
	175								
	200								

最大速度 Maximum speed

型 号 Model	滚珠螺杆导程 (mm) Ballscrew lead	轨道长度 L2 (mm) Track length	速 度 (mm/sec) Speed	
			精密级 Precise grade	一般级 General grade
KSR 30	01	75	160	160
		100	160	160
		125	160	160
		150	160	160
		175	160	160
		200	160	160

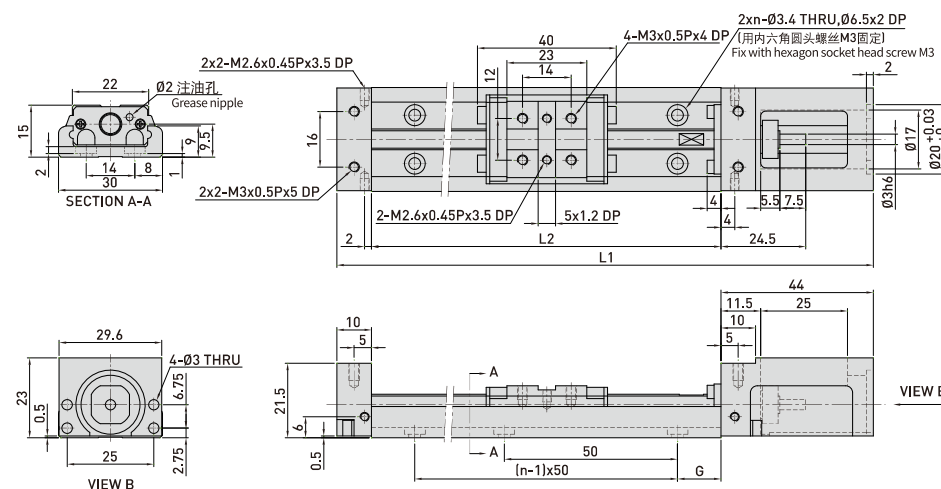


外形尺寸(不含护盖)/电机座与电机连接法兰

Overall dimensions(without cover)/Motor seat and motor connecting flange

M KSR-30 电机外置直连(不含护盖) KSR-30 Motor external direct connection (without cover)

单位:Unit: mm

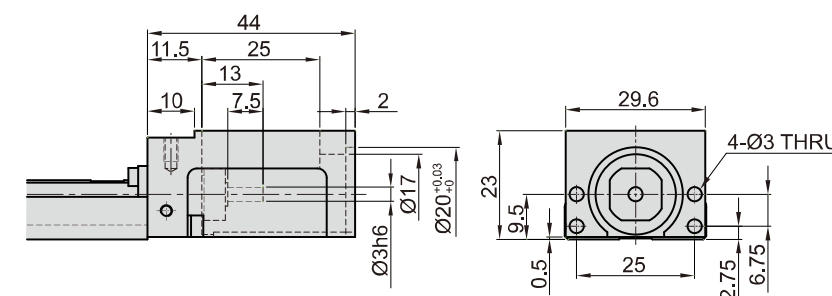


轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	n	重量(kg) Weight	
		滑座 A1 slide carriage	滑座 A2 slide carriage			滑座 A1 slide carriage	滑座 A2 slide carriage
75	129	31	—	12.5	2	0.2	—
100	154	56	—	25	2	0.23	—
125	179	81	45	12.5	3	0.26	0.3
150	204	106	70	25	3	0.29	0.33
175	229	131	95	12.5	4	0.32	0.36
200	254	156	120	25	4	0.35	0.39

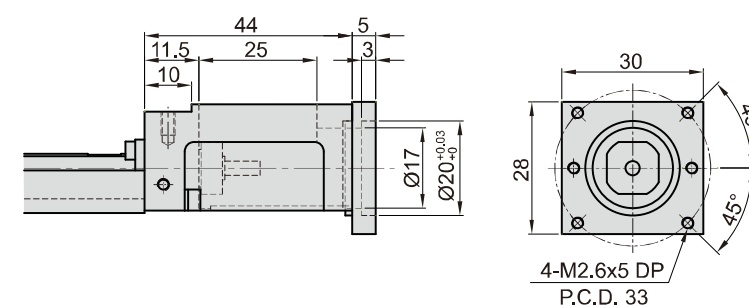
电机座与电机连接法兰

Motor seat and motor connecting flange

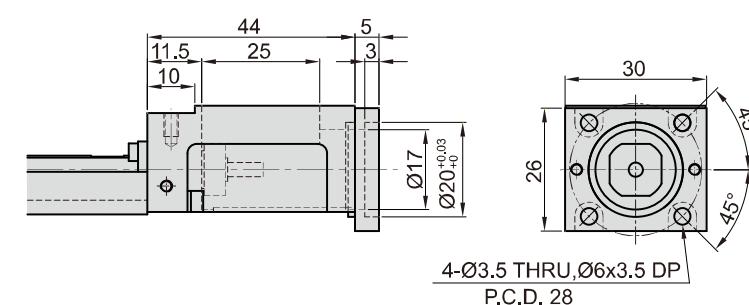
30 电机座F0 Motor seat F0



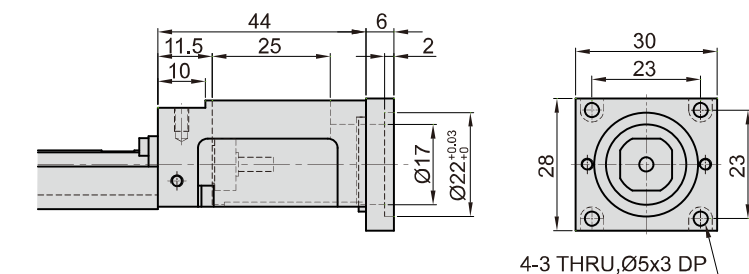
电机连接法兰F1 Connecting flange F1 of motor



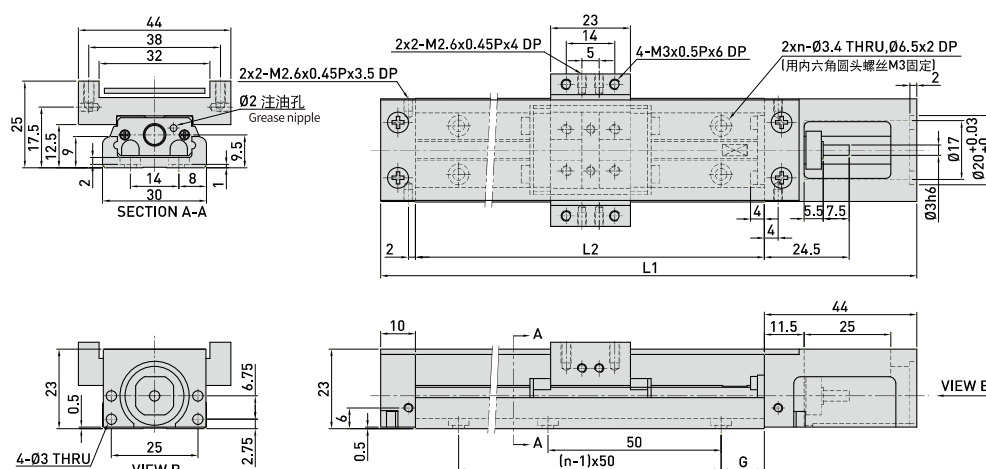
30 电机连接法兰F2 Connecting flange F2 of motor



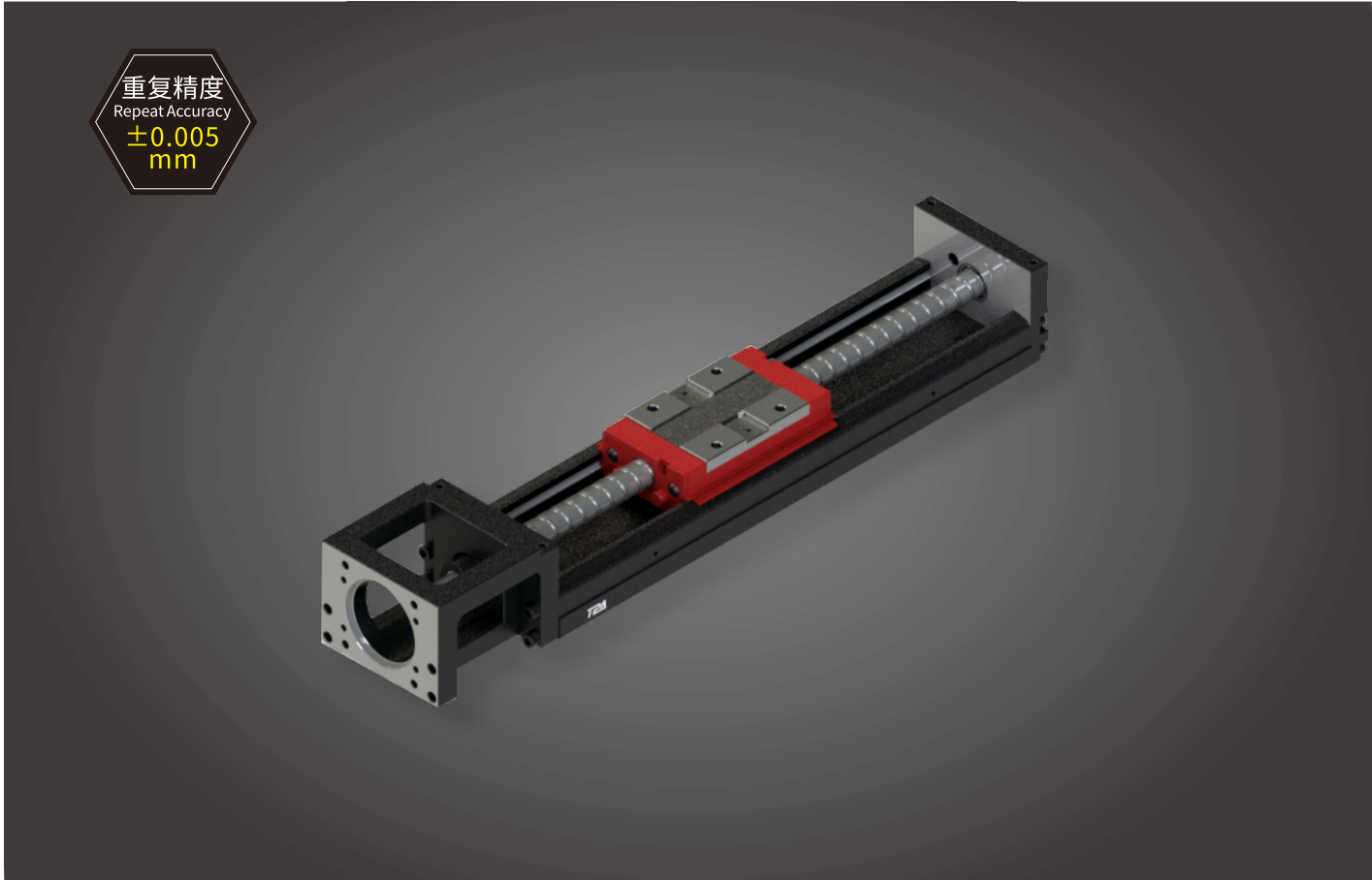
电机连接法兰F3 Connecting flange F3 of motor



M KNR-30 电机外置直连(含护盖) KNR-30 Motor external direct connection (Cover included)



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	n	重量(kg) Weight	
		滑座 A1 slide carriage	滑座 A2 slide carriage			滑座 A1 slide carriage	滑座 A2 slide carriage
75	129	31	—	12.5	2	0.24	—
100	154	56	—	25	2	0.27	—
125	179	81	45	12.5	3	0.3	0.36
150	204	106	70	25	3	0.33	0.39
175	229	131	95	12.5	4	0.37	0.43
200	254	156	120	25	4	0.4	0.46



此图仅供参考，出货规格详见尺寸图面
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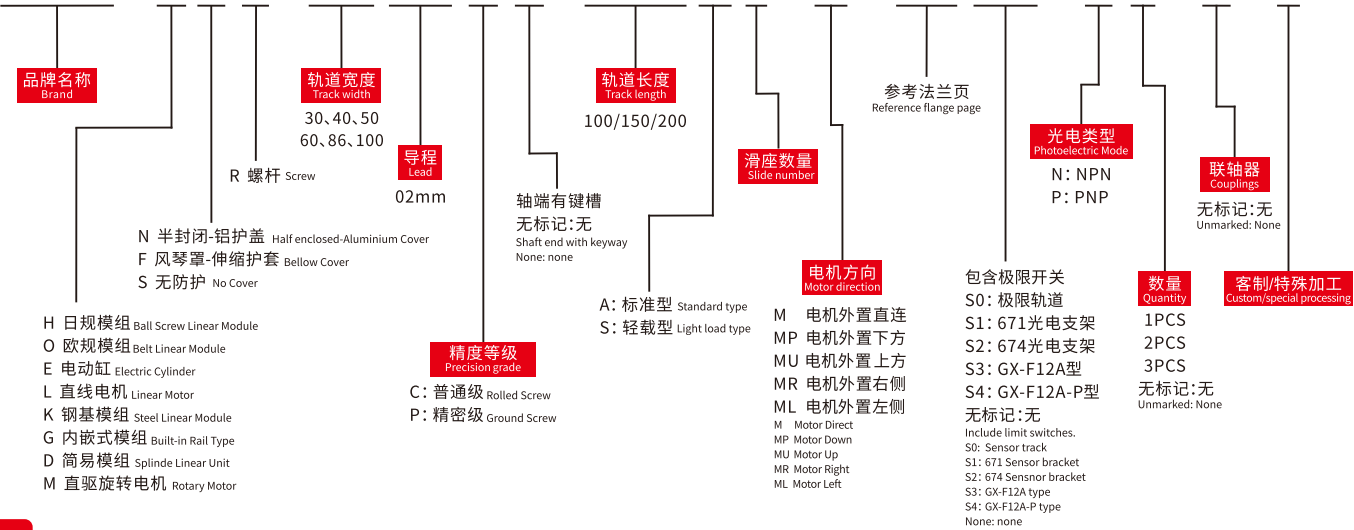
最大行程
Max Stroke 136mm

最高速度
Max Speed 100mm/sec

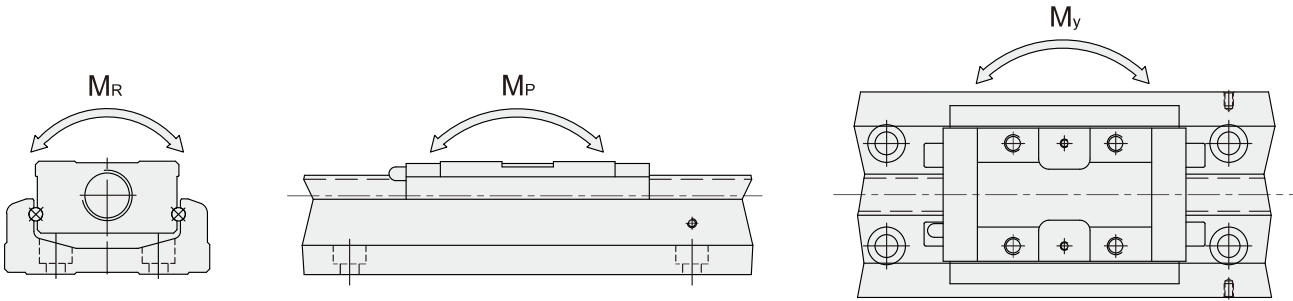
滚珠螺杆
Ball Screw $\varnothing 8\text{mm}$

型号表达方式 Ordering method

TPA-KSR-4002CK-100A1-M-F0S2-N3-D-F



负载规格 Load specification



技术参数 Technical parameter

型 号 Model		滚 珠 螺 杆 Ballscrew				线 性 滑 轨 Linear slider rail																	
		公称外径 (mm) Nominal outer diameter	导程 (mm) Lead	基本动态额定负荷 (N) Basic dynamic rated load	基本静额定负荷 (N) Basic static rated load	基本动态额定负荷 (N) Basic dynamic rated load	基本静额定负荷 (N) Basic static rated load	容 许 静 力 矩 Allowable static moment															
												俯仰 M _p (N-m)				偏扭 M _y (N-m)				滚动 M _R (N-m)			
								滑座 A Slide carriage	滑座 S Slide carriage	滑座 A Slide carriage	滑座 S Slide carriage	滑座 A1 Slide carriage	滑座 A2 Slide carriage	滑座 S1 Slide carriage	滑座 S2 Slide carriage	滑座 A1 Slide carriage	滑座 A2 Slide carriage	滑座 S1 Slide carriage	滑座 S2 Slide carriage	滑座 A1 Slide carriage	滑座 A2 Slide carriage	滑座 S1 Slide carriage	滑座 S2 Slide carriage
KSR 4002	精密级 Precise grade	8	02	735	1538	3920	-	6468	-	33	182	-	-	33	182	-	-	81	162	-	-		
	一般级 General grade			676	1284																		

精度等级 Precision grade

单位:mm									
型 号 Model	轨道长度 Track length	定位重现性 Positioning reproducibility		定位精度 positioning accuracy		行走平行度 Walking parallelism		最大启动扭力:(N-cm) Maximum starting torque	
		精密级 Precise grade	一般级 General grade	精密级 Precise grade	一般级 General grade	精密级 Precise grade	一般级 General grade	精密级 Precise grade	一般级 General grade
KSR 40	100	±0.003	±0.005	0.020	—	0.010	—	1.2	0.8
	150								
	200								

最大速度 Maximum speed

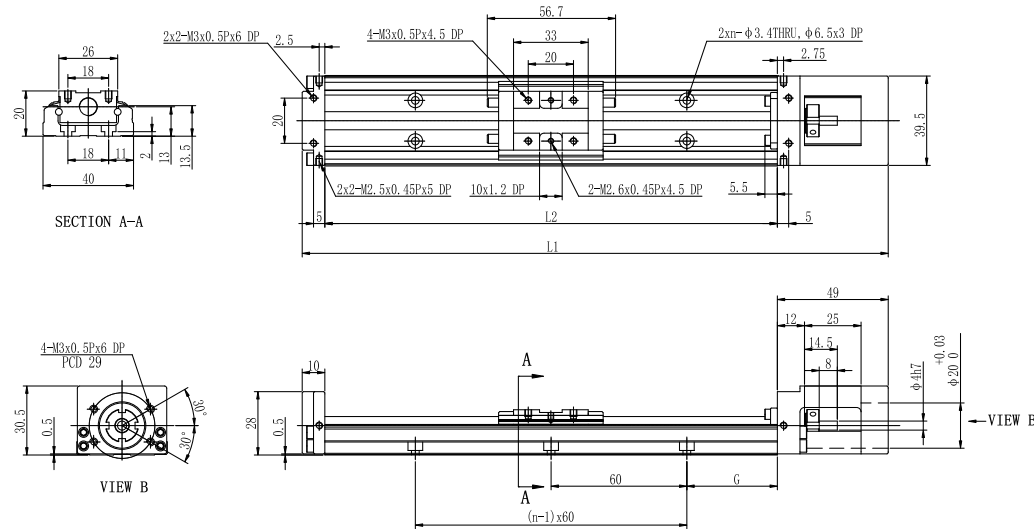
型 号 Model	滚珠螺杆导程 (mm) Ballscrew lead	轨道长度 L2 (mm) Track length	速 度 (mm/sec) Speed	
			精密级 Precise grade	一般级 General grade
KSR 40	02	100	190	190
		150	190	190
		200	190	190



KSR 外形尺寸 (不含护盖)
KSR Overall dimensions (without cover)

M KSR-40 电机外置直连 (不含护盖) KSR-40 Motor external direct connection (without cover)

单位:Unit: mm

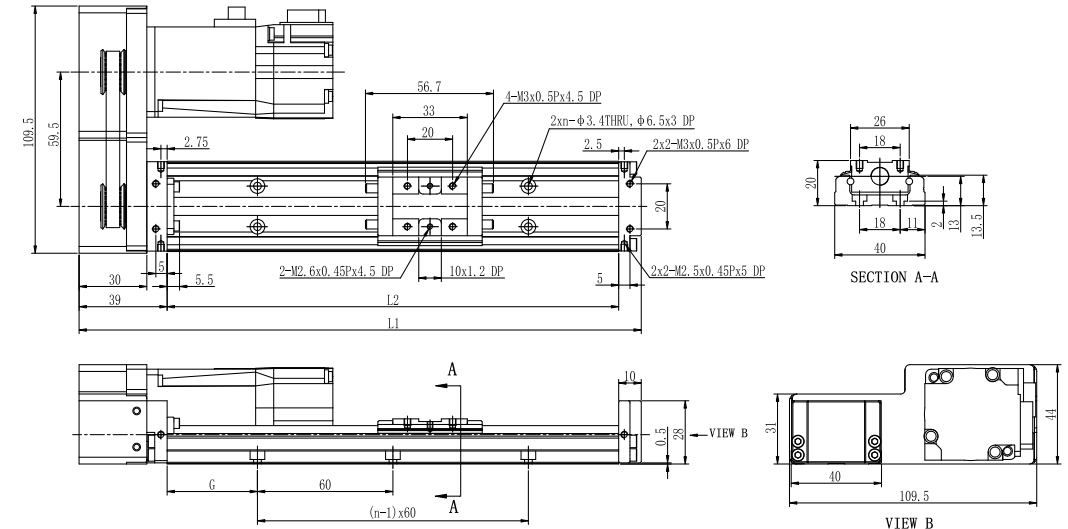


轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage			滑座 A1 Slide carriage	滑座 A2 Slide carriage
100	159	36	—	20	2	0.48	—
150	209	86	34	15	3	0.6	0.67
200	259	136	84	40	3	0.72	0.79

KSR 外形尺寸 (不含护盖)
KSR Overall dimensions (without cover)

MR KSR-40 电机外置右侧 (不含护盖) KSR-40 Motor external right side (without cover)

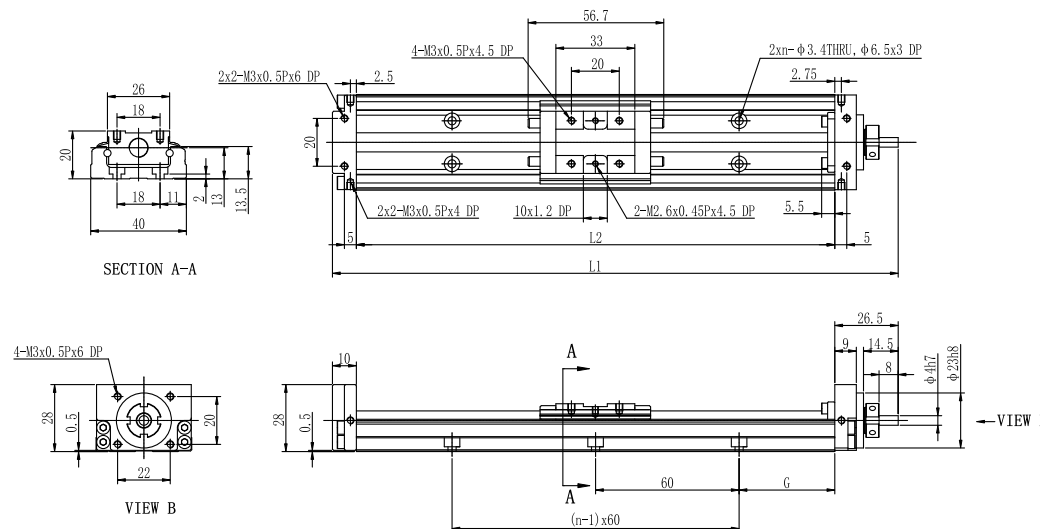
单位:Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage			滑座 A1 Slide carriage	滑座 A2 Slide carriage
100	149	36	—	20	2	0.48	—
150	199	86	34	15	3	0.6	0.67
200	249	136	84	40	3	0.72	0.79

H0 KSR-40-H0 (不含护盖) KSR-40-H0 (without cover)

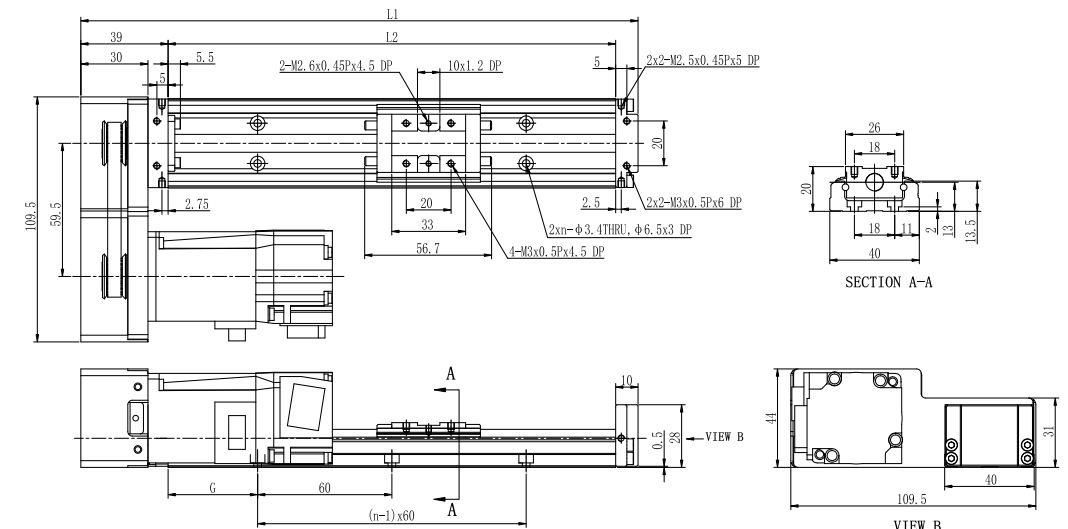
单位:Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage			滑座 A1 Slide carriage	滑座 A2 Slide carriage
100	136.5	36	—	20	2	0.48	—
150	186.5	86	34	15	3	0.6	0.67
200	236.5	136	84	40	3	0.72	0.79

ML KSR-40 电机外置左侧 (不含护盖) KSR-40 Motor external left side (without cover)

单位:Unit: mm



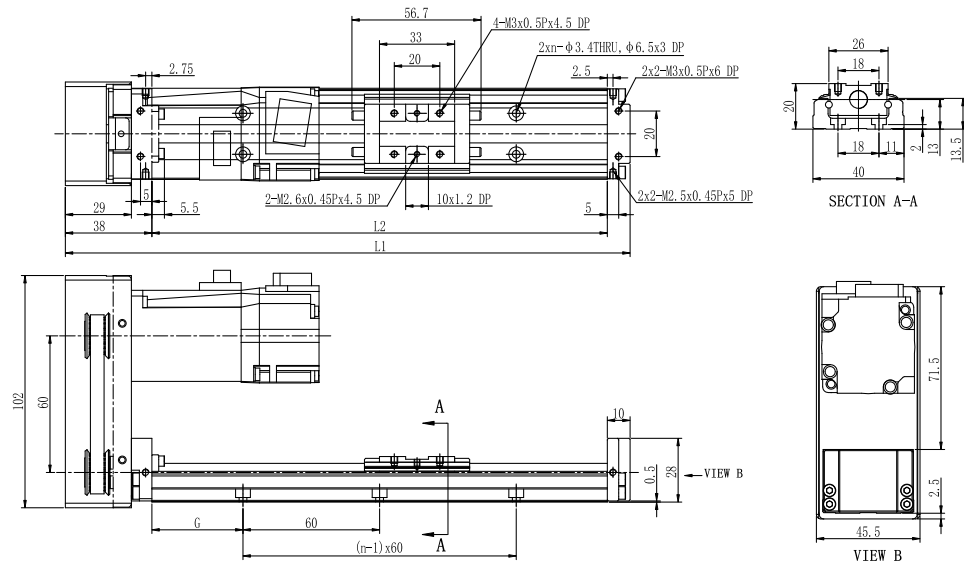
轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage			滑座 A1 Slide carriage	滑座 A2 Slide carriage
100	149	36	—	20	2	0.48	—
150	199	86	34	15	3	0.6	0.67
200	249	136	84	40	3	0.72	0.79



KSR 外形尺寸 (不含护盖)
KSR Overall dimensions (without cover)

MU KSR-40 电机外置上方 (不含护盖) KSR-40 Motor external above (without cover)

单位:Unit: mm

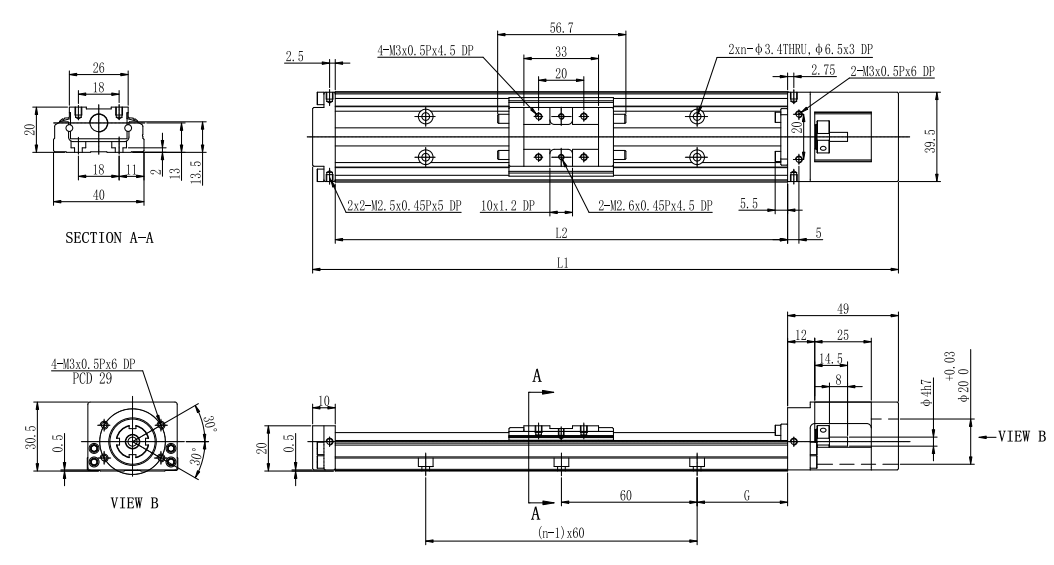


轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage			滑座 A1 Slide carriage	滑座 A2 Slide carriage
100	148	36	—	20	2	0.48	—
150	198	86	34	15	3	0.6	0.67
200	248	136	84	40	3	0.72	0.79

KSR 外形尺寸 (不含护盖)
KSR Overall dimensions (without cover)

M KSR-40-DZ电机外置直连 (不含护盖) KSR-40-DZ Motor external direct connection (without cover)

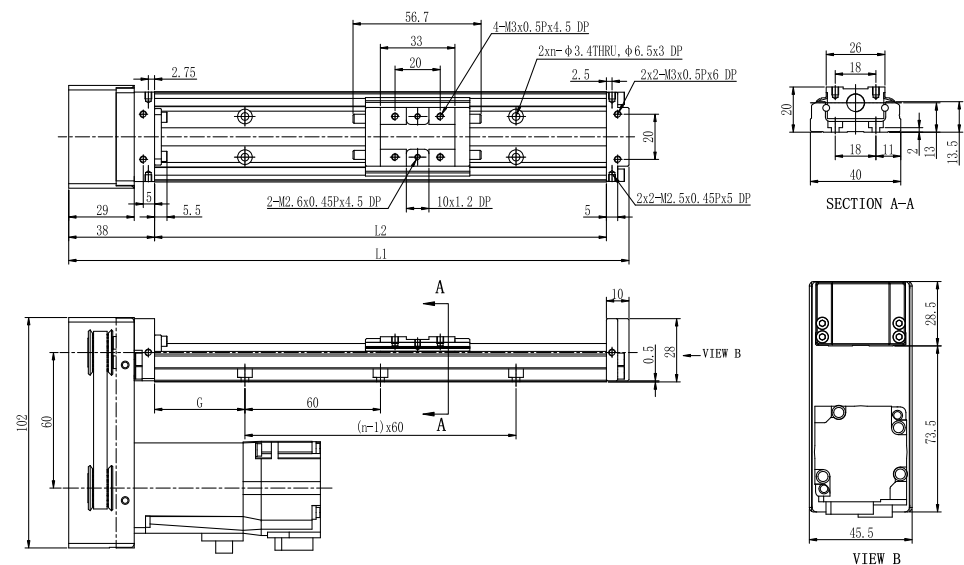
单位:Unit: mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage			滑座 A1 Slide carriage	滑座 A2 Slide carriage
100	159	36	—	20	2	0.48	—
150	209	86	34	15	3	0.6	0.67
200	259	136	84	40	3	0.72	0.79

MP KSR-40 电机外置下方 (不含护盖) KSR-40 Motor external under below (without cover)

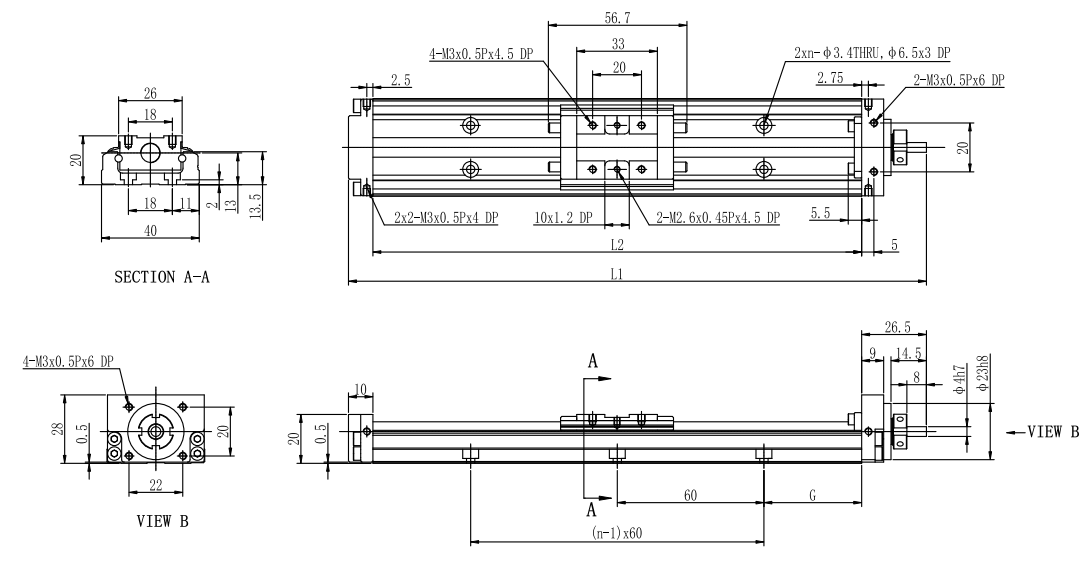
单位:Unit: mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage			滑座 A1 Slide carriage	滑座 A2 Slide carriage
100	148	36	—	20	2	0.48	—
150	198	86	34	15	3	0.6	0.67
200	248	136	84	40	3	0.72	0.79

H0 KSR-40-DZ-H0 (不含护盖) KSR-40-DZ-H0 (without cover)

单位:Unit: mm



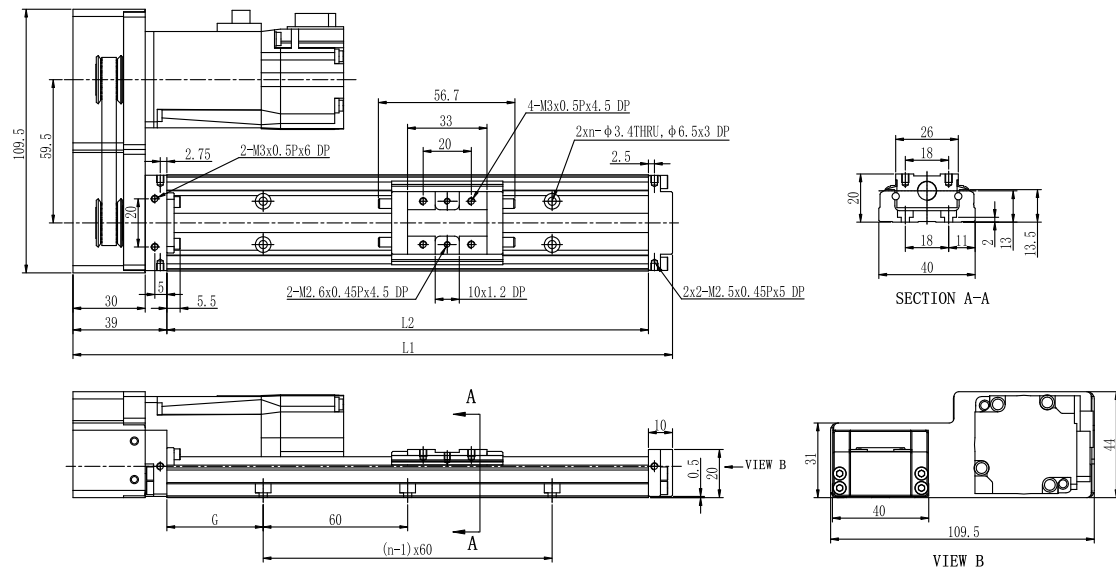
轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage			滑座 A1 Slide carriage	滑座 A2 Slide carriage
100	136.5	36	—	20	2	0.48	—
150	186.5	86	34	15	3	0.6	0.67
200	236.5	136	84	40	3	0.72	0.79



KSR 外形尺寸 (不含护盖)
KSR Overall dimensions (without cover)

MR KSR-40-DZ 电机外置右侧 (不含护盖) KSR-40-DZ Motor external right side (without cover)

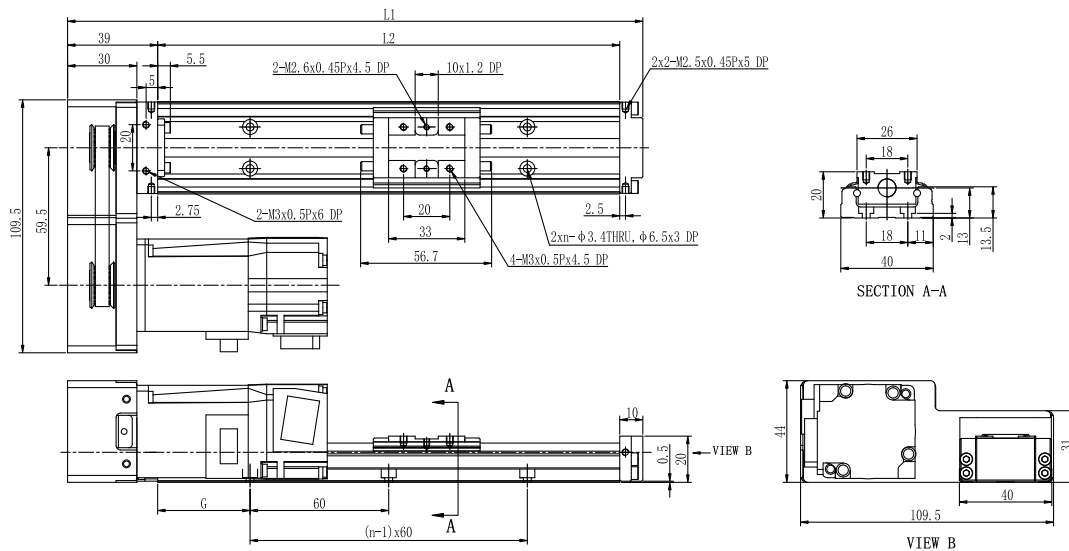
单位:Unit: mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	n	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage			滑座 A1 Slide carriage	滑座 A2 Slide carriage
100	149	36	—	20	2	0.48	—
150	199	86	34	15	3	0.6	0.67
200	249	136	84	40	3	0.72	0.79

ML KSR-40-DZ 电机外置左侧 (不含护盖) KSR-40-DZ Motor external left side (without cover)

单位:Unit: mm

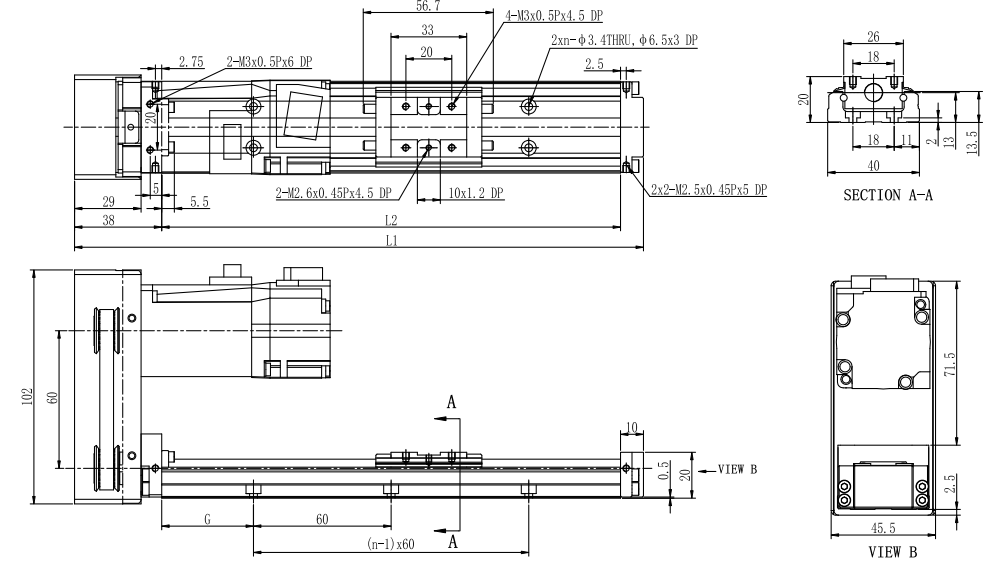


轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	n	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage			滑座 A1 Slide carriage	滑座 A2 Slide carriage
100	149	36	—	20	2	0.48	—
150	199	86	34	15	3	0.6	0.67
200	249	136	84	40	3	0.72	0.79

KSR 外形尺寸 (不含护盖)
KSR Overall dimensions (without cover)

MU KSR-40-DZ 电机外置上方 (不含护盖) KSR-40-DZ Motor external above (without cover)

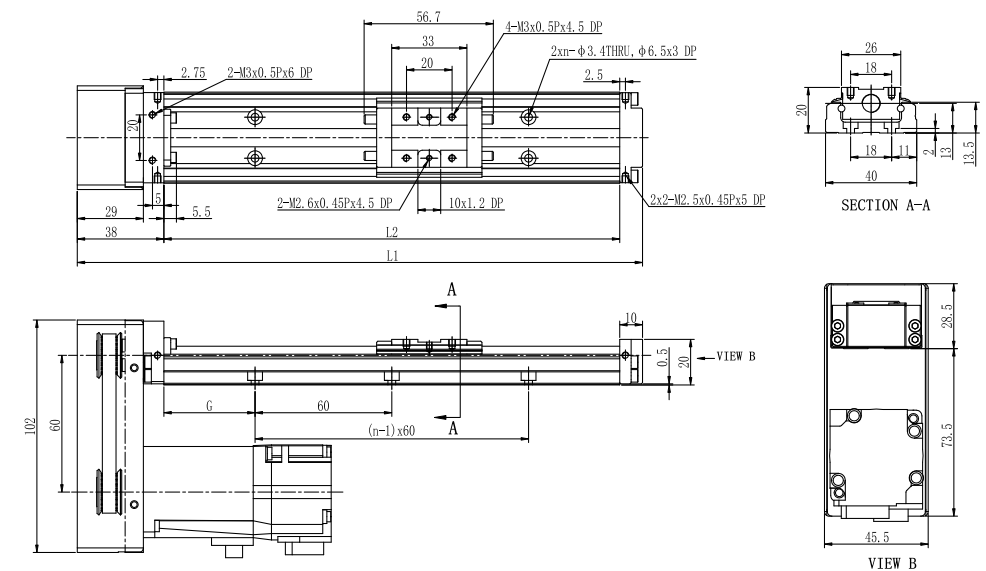
单位:Unit: mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	n	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage			滑座 A1 Slide carriage	滑座 A2 Slide carriage
100	148	36	—	20	2	0.48	—
150	198	86	34	15	3	0.6	0.67
200	248	136	84	40	3	0.72	0.79

MP KSR-40-DZ 电机外置下方 (不含护盖) KSR-40-DZ Motor external under below (without cover)

单位:Unit: mm



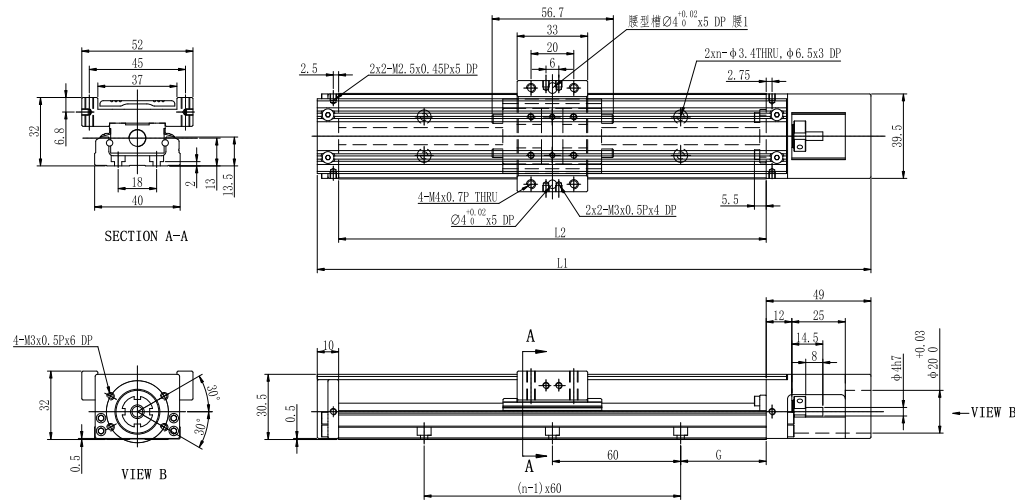
轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	n	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage			滑座 A1 Slide carriage	滑座 A2 Slide carriage
100	148	36	—	20	2	0.48	—
150	198	86	34	15	3	0.6	0.67
200	248	136	84	40	3	0.72	0.79



KNR 外形尺寸 (含护盖) KNR Overall dimensions (cover included)

M KNR-40 电机外置直连 (含护盖) KNR-40 Motor external direct connection (Cover included)

单位:Unit: mm

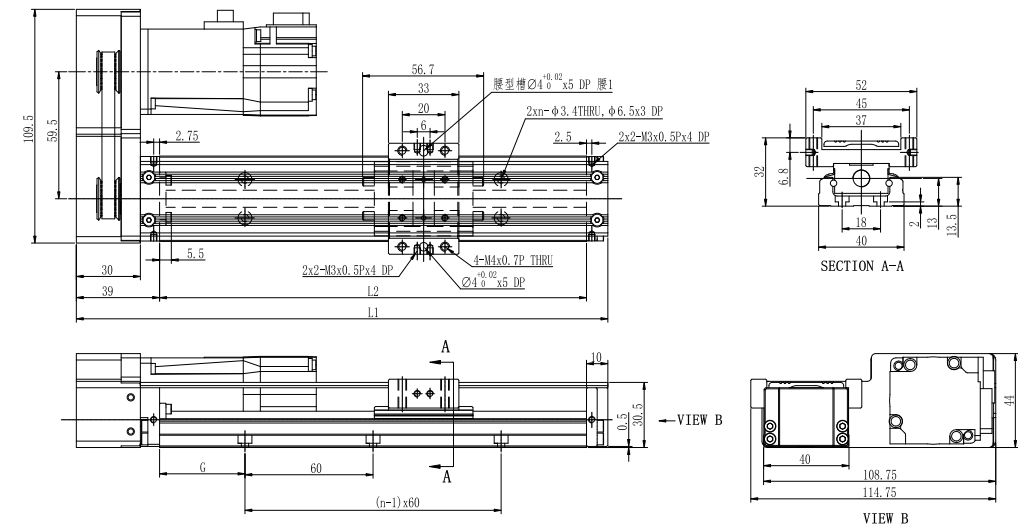


轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	n	重量 (kg) Weight	
		滑座 A1 slide carriage	滑座 A2 slide carriage			滑座 A1 slide carriage	滑座 A2 slide carriage
100	159	36	—	20	2	0.55	—
150	209	86	34	15	3	0.68	0.76
200	259	136	84	40	3	0.82	0.89

KNR 外形尺寸 (含护盖) KNR Overall dimensions (cover included)

MR KNR-40 电机外置右侧 (含护盖) KNR-40 Motor external right side (Cover included)

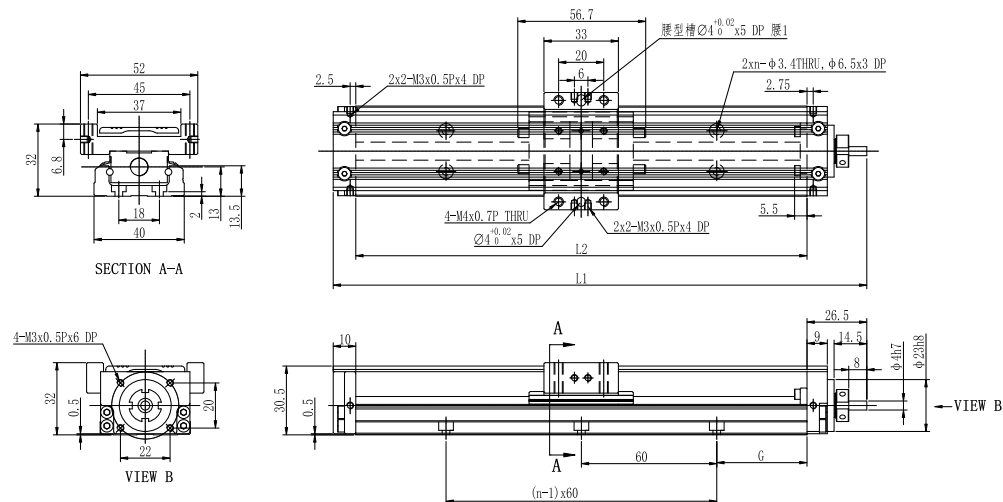
单位:Unit: mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage			滑座 A1 Slide carriage	滑座 A2 Slide carriage
100	149	36	—	20	2	0.55	—
150	199	86	34	15	3	0.68	0.76
200	249	136	84	40	3	0.82	0.89

H0 KNR-40-H0 (含护盖) KNR-40-H0 (Cover included)

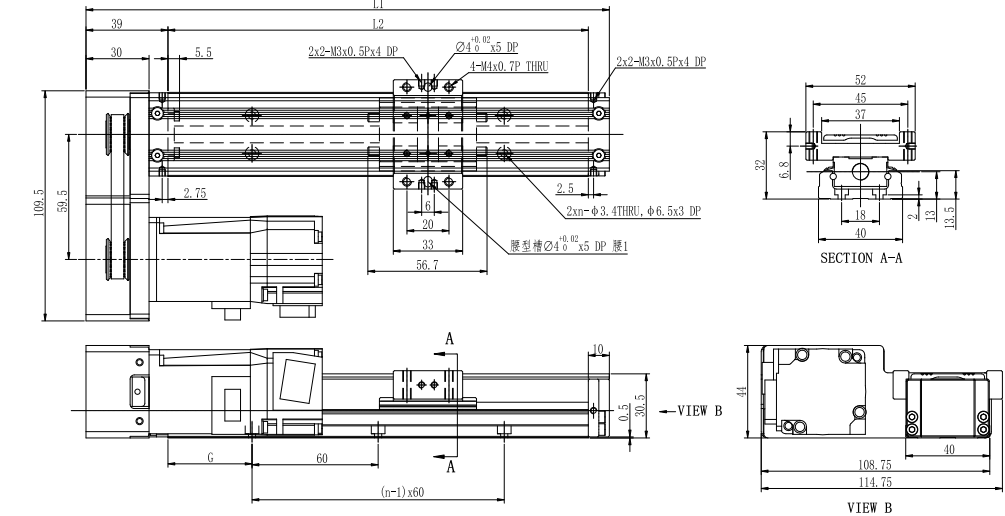
单位:Unit: mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	n	重量 (kg) Weight	
		滑座 A1 slide carriage	滑座 A2 slide carriage			滑座 A1 slide carriage	滑座 A2 slide carriage
100	136.5	36	—	20	2	0.55	—
150	186.5	86	34	15	3	0.68	0.76
200	236.5	136	84	40	3	0.82	0.89

ML KNR-40 电机外置左侧 (含护盖) KNR-40 Motor external left side (Cover included)

单位:Unit: mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage			滑座 A1 Slide carriage	滑座 A2 Slide carriage
100	149	36	—	20	2	0.55	—
150	199	86	34	15	3	0.68	0.76
200	249	136	84	40	3	0.82	0.89

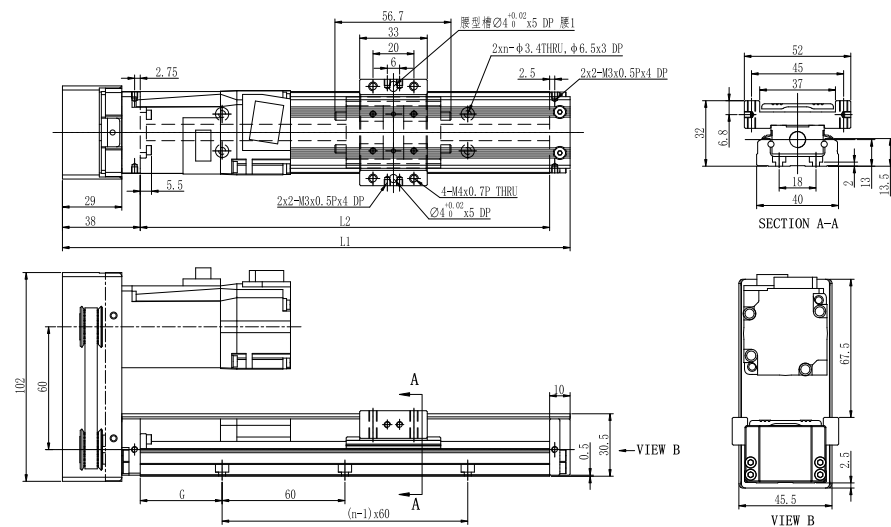


KNR 外形尺寸 (含护盖)

KNR Overall dimensions (cover included)

MU KNR-40 电机外置上方 (含护盖) KNR-40 Motor external above (Cover included)

单位: Unit: mm

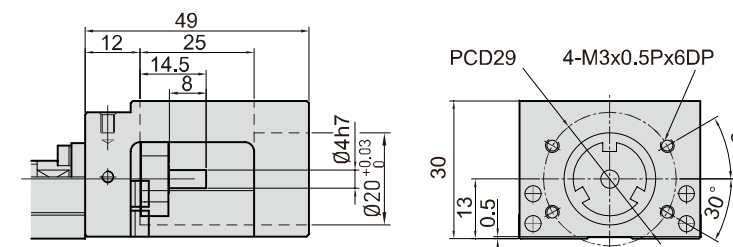


轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	n	重量 (kg) Weight	
		滑座 A1 slide carriage	滑座 A2 slide carriage			滑座 A1 slide carriage	滑座 A2 slide carriage
100	148	36	—	20	2	0.55	—
150	198	86	34	15	3	0.68	0.76
200	248	136	84	40	3	0.82	0.89

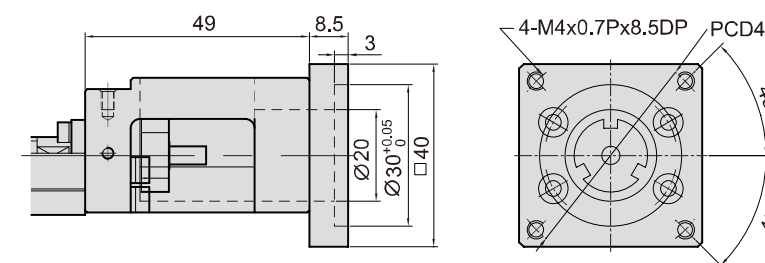
电机座与电机连接法兰

Motor seat and motor connecting flange

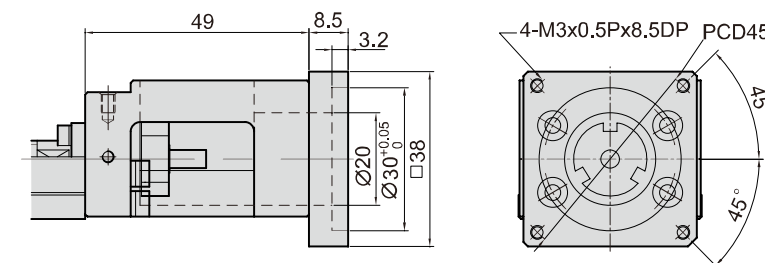
40 电机座 F0 Motor seat F0



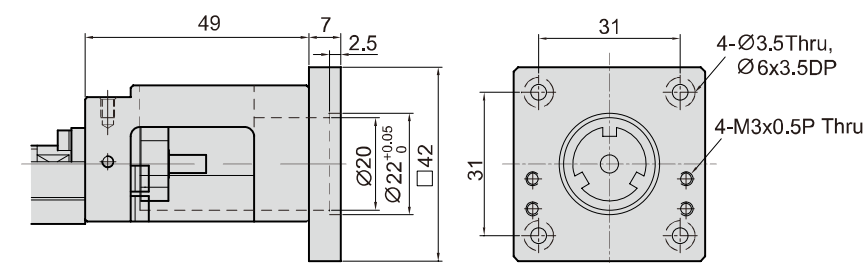
电机连接法兰 F1 (台达/安川/汇川/三菱/富士 100W) Connecting flange F1 of motor (Delta/Yaskawa/Inovance/Mitsubishi/Fuji 100W)



40 电机连接法兰 F2 (松下 100W) Connecting flange F2 of motor (Panasonic 100W)

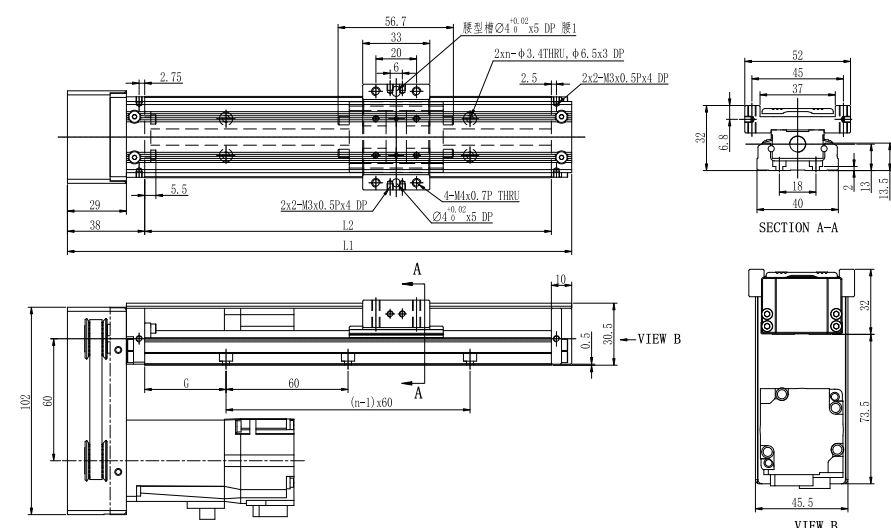


电机连接法兰 F3 (42步进) Connecting flange F3 of motor (42 Stepper)



MP KNR-40 电机外置下方 (含护盖) KNR-40 Motor external under below (Cover included)

单位: Unit: mm

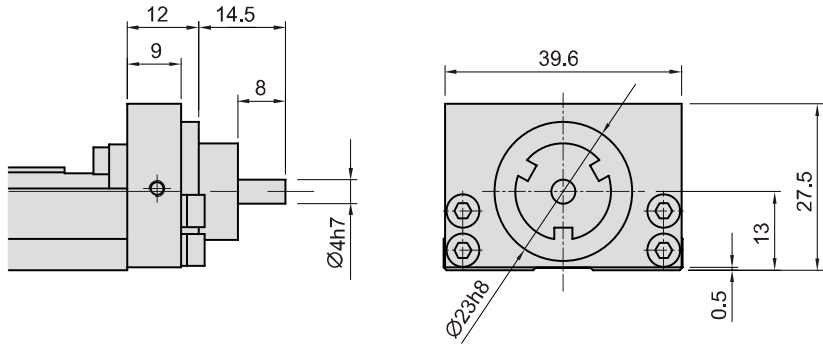


轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	n	重量 (kg) Weight	
		滑座 A1 slide carriage	滑座 A2 slide carriage			滑座 A1 slide carriage	滑座 A2 slide carriage
100	148	36	—	20	2	0.55	—
150	198	86	34	15	3	0.68	0.76
200	248	136	84	40	3	0.82	0.89



电机座与电机连接法兰
Motor seat and motor connecting flange

40 转接固定H0 Fixed transfer H0

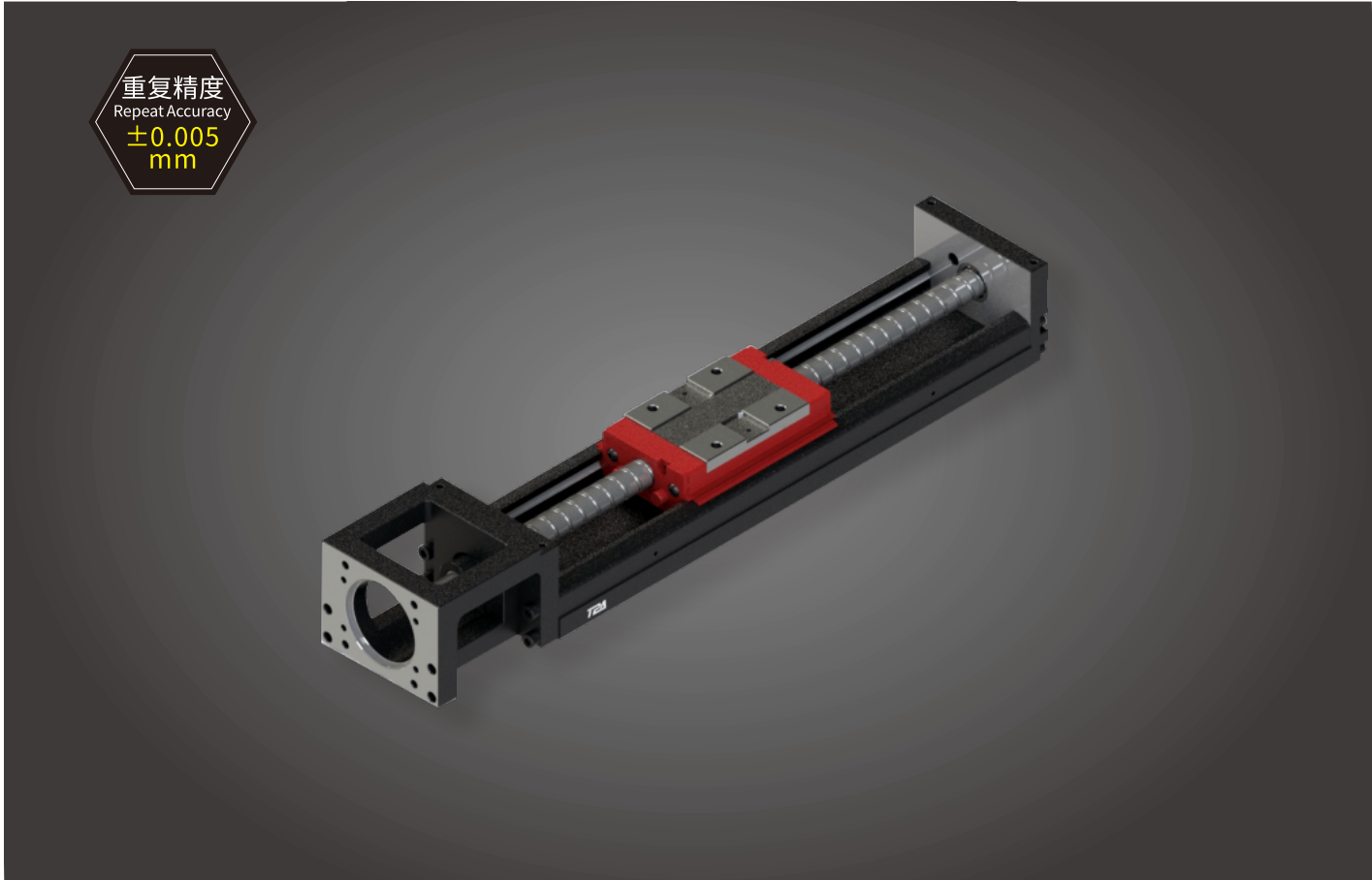


MEMO

KSR

KNR-E

参考资料
Reference
data



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

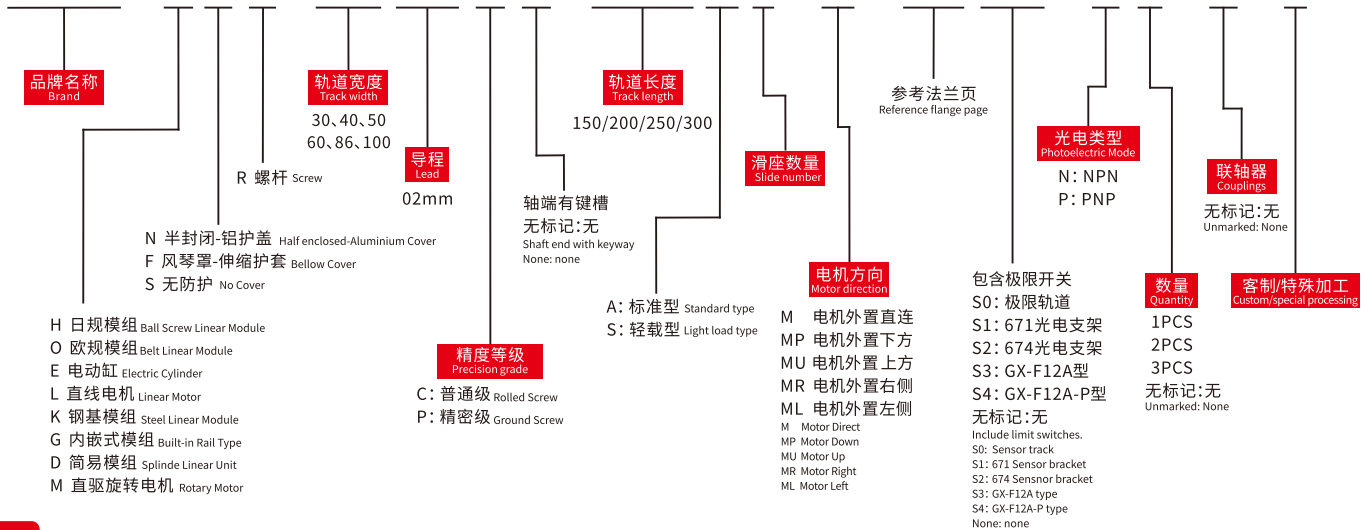
最大行程
Max Stroke 220mm

最高速度
Max Speed 100mm/sec

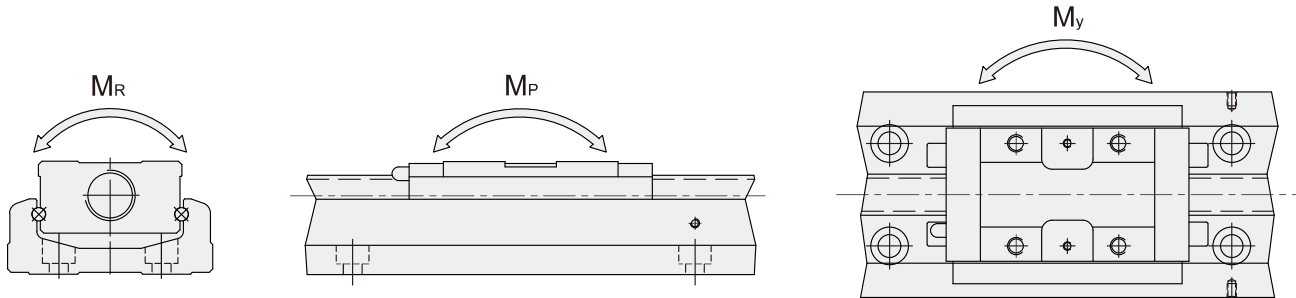
滚珠螺杆
Ball Screw $\varnothing 8\text{mm}$

型号表达方式 Ordering method

TPA-KSR-5002CK-150A1-M-F0S2-N3-D-F



负载规格 Load specification



技术参数 Technical parameter

型 号 Model		滚 珠 螺 杆 Ballscrew				线 性 滑 轨 Linear slider rail															
		公称外径 (mm) Nominal outer diameter	导程 (mm) Lead	基本动态额定负荷 (N) Basic dynamic rated load	基本静态额定负荷 (N) Basic static rated load	基本动态额定负荷 (N) Basic dynamic rated load		基本静态额定负荷 (N) Basic static rated load		容 许 静 力 矩 Allowable static moment											
										俯仰 M _p (N-m)					偏扭 M _t (N-m)				滚动 M _R (N-m)		
						滑座 A Slide carriage		滑座 S Slide carriage		滑座 A Slide carriage		滑座 S Slide carriage		滑座 A1 Slide carriage	滑座 A2 Slide carriage	滑座 S1 Slide carriage	滑座 S2 Slide carriage	滑座 A1 Slide carriage	滑座 A2 Slide carriage	滑座 S1 Slide carriage	滑座 S2 Slide carriage
KSR 5002	精密级 Precise grade	8	2	2136	3489	8007	—	12916	—	116	545	—	—	116	545	—	—	222	444	—	—
	一般级 General grade			1813	2910																

精度等级 Precision grade

单位:mm									
型 号 Model	轨道长度 Track length	定位重现性 Positioning reproducibility		定位精度 positioning accuracy		行走平行度 Walking parallelism		最大启动扭力:(N-cm) Maximum starting torque	
		精密级 Precise grade	一般级 General grade	精密级 Precise grade	一般级 General grade	精密级 Precise grade	一般级 General grade	精密级 Precise grade	一般级 General grade
KSR 50	150	±0.003	±0.005	0.020	—	0.010	—	4	2
	200								
	250								
	300								

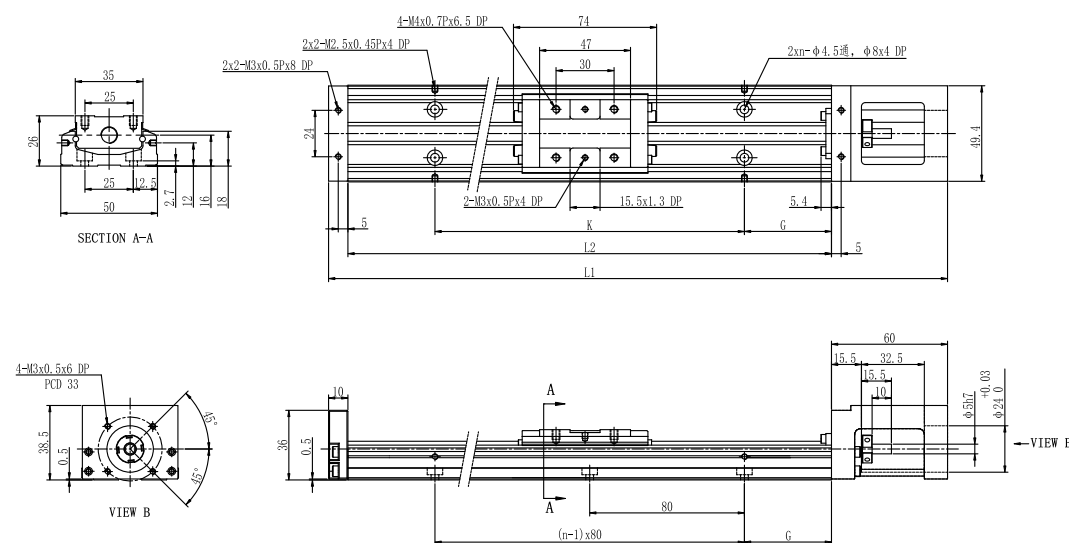
最大速度 Maximum speed

型 号 Model	滚珠螺杆导程 (mm) Ballscrew lead	轨道长度 L2 (mm) Track length	速 度 (mm/sec) Speed	
			精密级 Precise grade	一般级 General grade
KSR 50	02	150	270	270
		200	270	270
		250	270	270
		300	270	270

KSR 外形尺寸(不含护盖)
KSR Overall dimensions(without cover)

M KSR-50 电机外置直连 (不含护盖) KSR-50 Motor external direct connection (without cover)

单位:Unit:mm

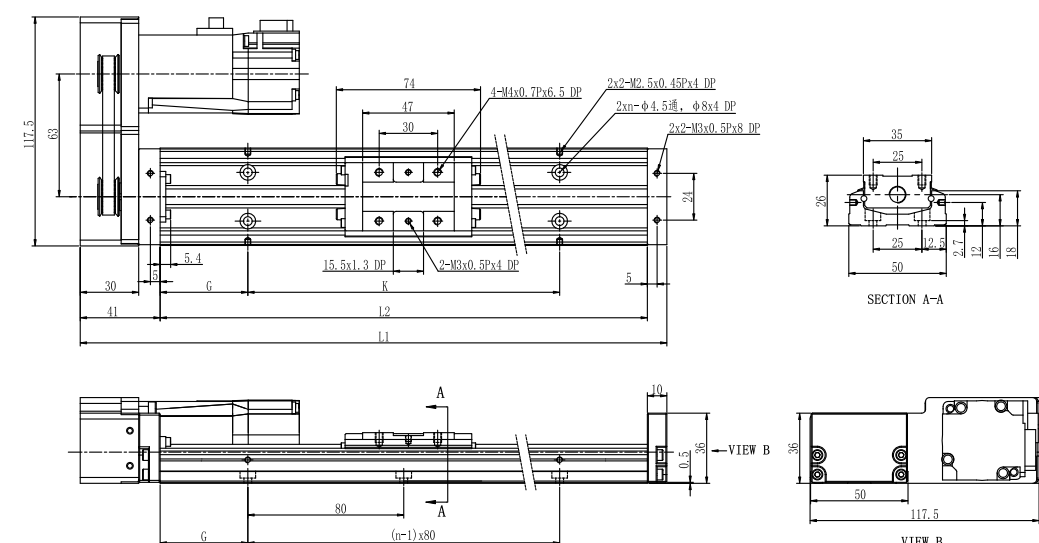


轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	K(mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	220	70	—	35	80	2	1	—
200	270	120	55	20	160	3	1.2	1.4
250	320	170	105	45	160	3	1.4	1.6
300	370	220	155	30	240	4	1.6	1.8

KSR 外形尺寸(不含护盖)
KSR Overall dimensions(without cover)

MR KSR-50 电机外置右侧 (不含护盖) KSR-50 Motor external right side (without cover)

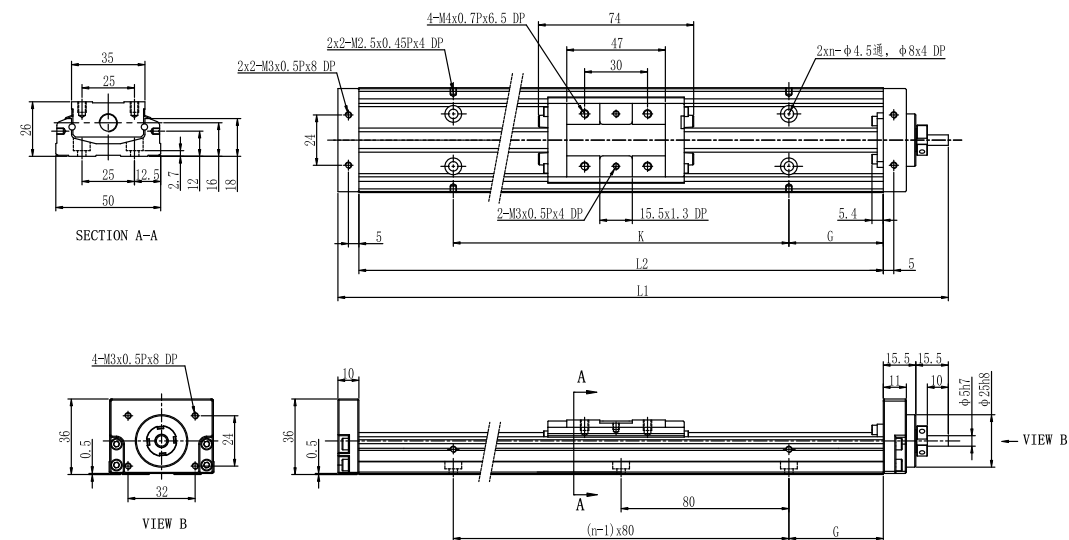
单位:Unit:mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	K(mm)	n	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	201	70	—	35	80	2	1	—
200	251	120	55	20	160	3	1.2	1.4
250	301	170	105	45	160	3	1.4	1.6
300	351	220	155	30	240	4	1.6	1.8

H0 KSR-50-H0 (不含护盖) KSR-50-H0 (without cover)

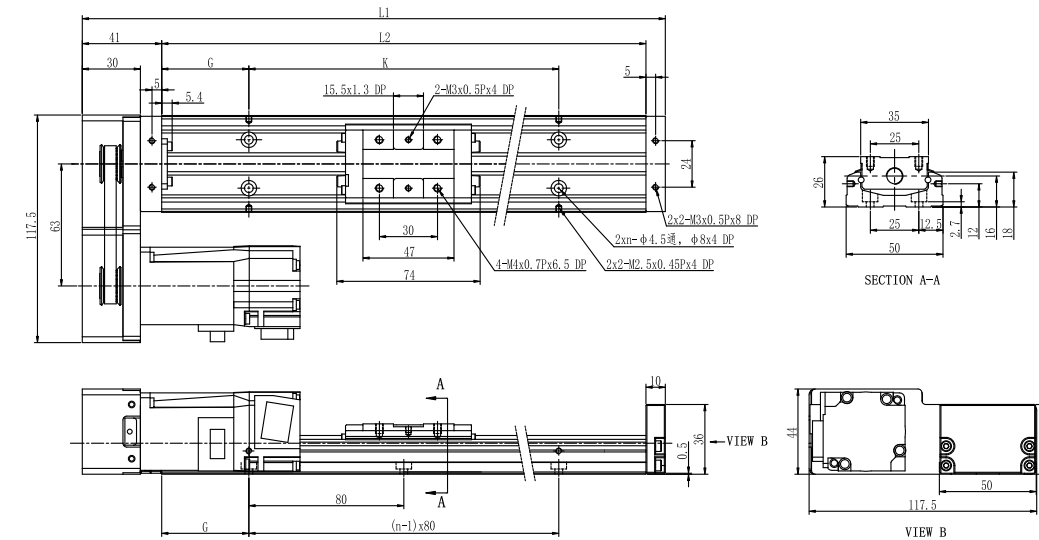
单位:Unit:mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	K(mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	191	70	—	35	80	2	1	—
200	241	120	55	20	160	3	1.2	1.4
250	291	170	105	45	160	3	1.4	1.6
300	341	220	155	30	240	4	1.6	1.8

ML KSR-50 电机外置左侧 (不含护盖) KSR-50 Motor external left side (without cover)

单位:Unit:mm



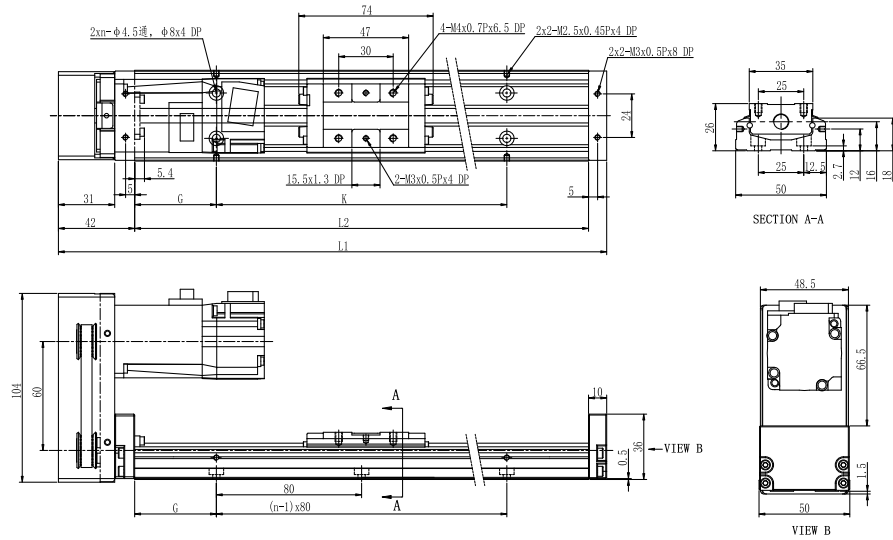
轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	K(mm)	n	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	201	70	—	35	80	2	1	—
200	251	120	55	20	160	3	1.2	1.4
250	301	170	105	45	160	3	1.4	1.6
300	351	220	155	30	240	4	1.6	1.8



KSR 外形尺寸 (不含护盖)
KSR Overall dimensions (without cover)

MU KSR-50 电机外置上方 (不含护盖) KSR-50 Motor external above (without cover)

单位:Unit: mm

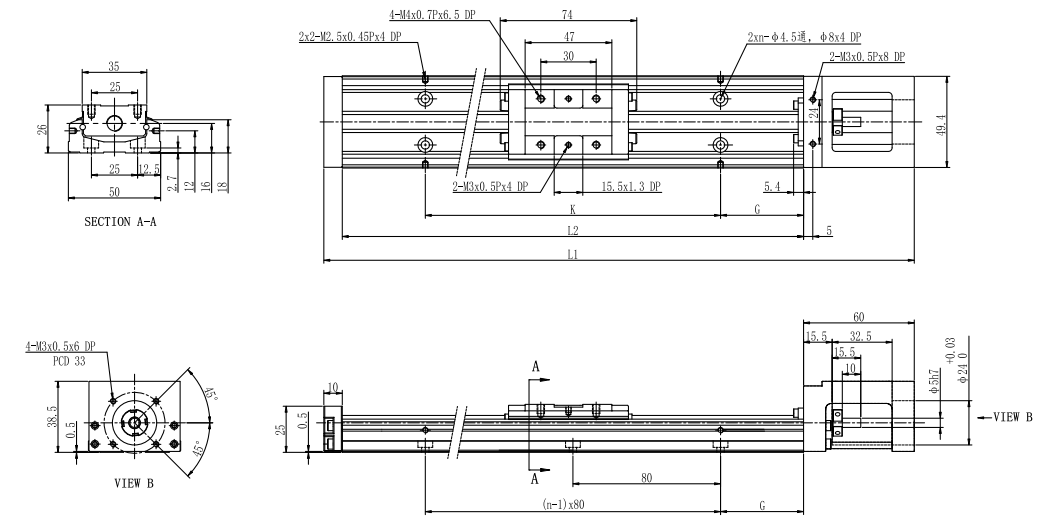


轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	202	70	—	35	80	2	1	—
200	252	120	55	20	160	3	1.2	1.4
250	302	170	105	45	160	3	1.4	1.6
300	352	220	155	30	240	4	1.6	1.8

KSR 外形尺寸 (不含护盖)
KSR Overall dimensions (without cover)

M KSR-50-DZ 电机外置直连 (不含护盖) KSR-50-DZ Motor external direct connection (without cover)

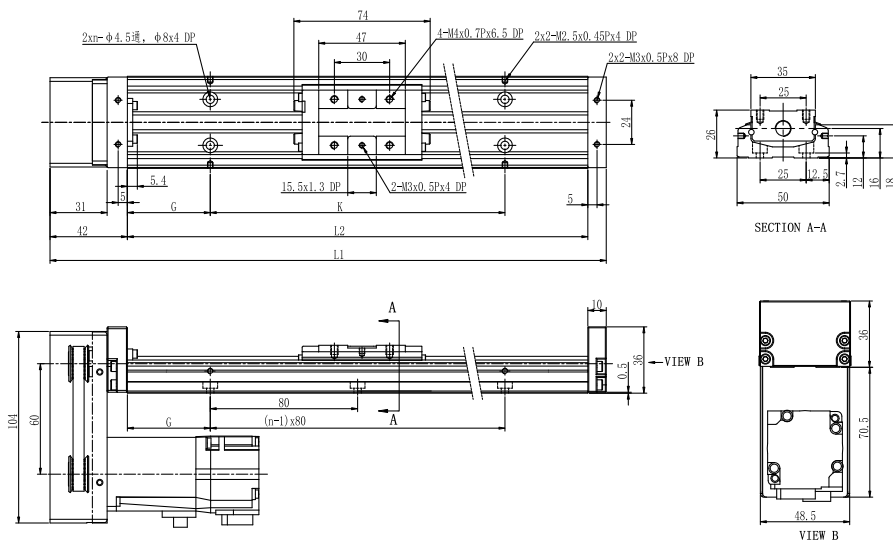
单位:Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	220	70	—	35	80	2	1	—
200	270	120	55	20	160	3	1.2	1.4
250	320	170	105	45	160	3	1.4	1.6
300	370	220	155	30	240	4	1.6	1.8

MP KSR-50 电机外置下方 (不含护盖) KSR-50 Motor external under below (without cover)

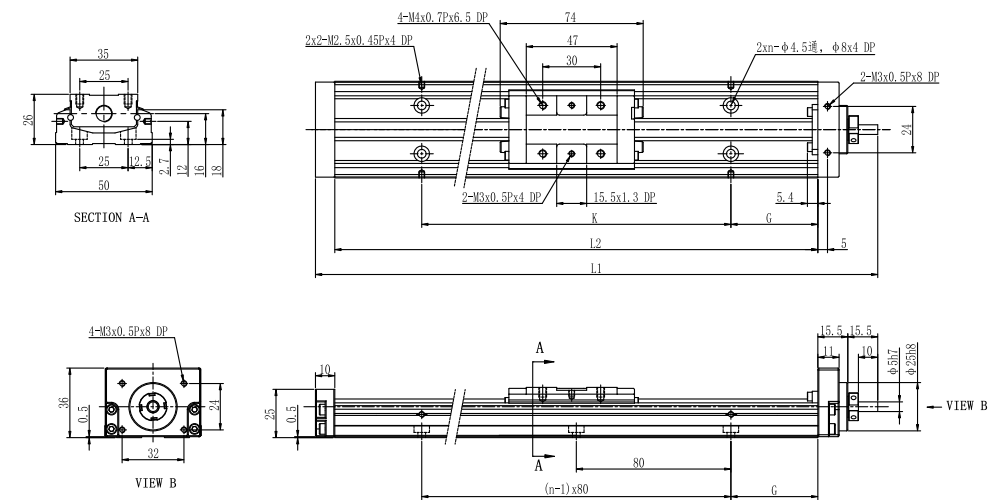
单位:Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	202	70	—	35	80	2	1	—
200	252	120	55	20	160	3	1.2	1.4
250	302	170	105	45	160	3	1.4	1.6
300	352	220	155	30	240	4	1.6	1.8

H0 KSR-50-DZ-H0 (不含护盖) KSR-50-DZ-H0 (without cover)

单位:Unit: mm

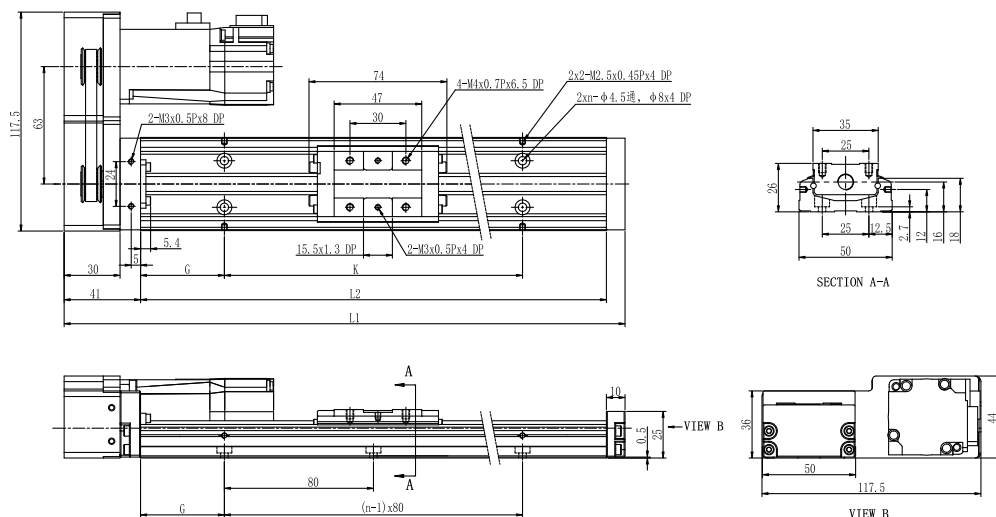


轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	191	70	—	35	80	2	1	—
200	241	120	55	20	160	3	1.2	1.4
250	291	170	105	45	160	3	1.4	1.6
300	341	220	155	30	240	4	1.6	1.8

KSR 外形尺寸(不含护盖)
KSR Overall dimensions(without cover)

MR KSR-50-DZ 电机外置右侧 (不含护盖) KSR-50-DZ Motor external right side (without cover)

单位:Unit:mm

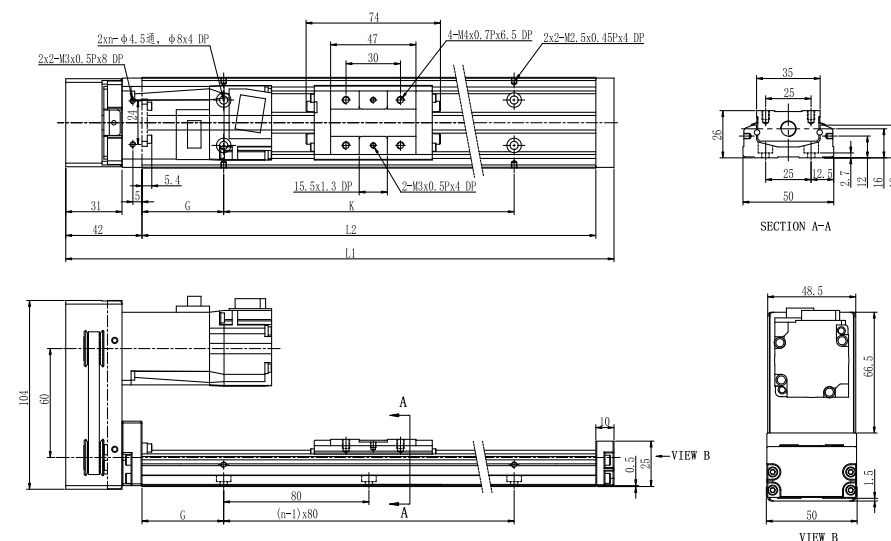


轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	K(mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	201	70	—	35	80	2	1	—
200	251	120	55	20	160	3	1.2	1.4
250	301	170	105	45	160	3	1.4	1.6
300	351	220	155	30	240	4	1.6	1.8

KSR 外形尺寸(不含护盖)
KSR Overall dimensions(without cover)

MU KSR-50-DZ 电机外置上方 (不含护盖) KSR-50-DZ Motor external above (without cover)

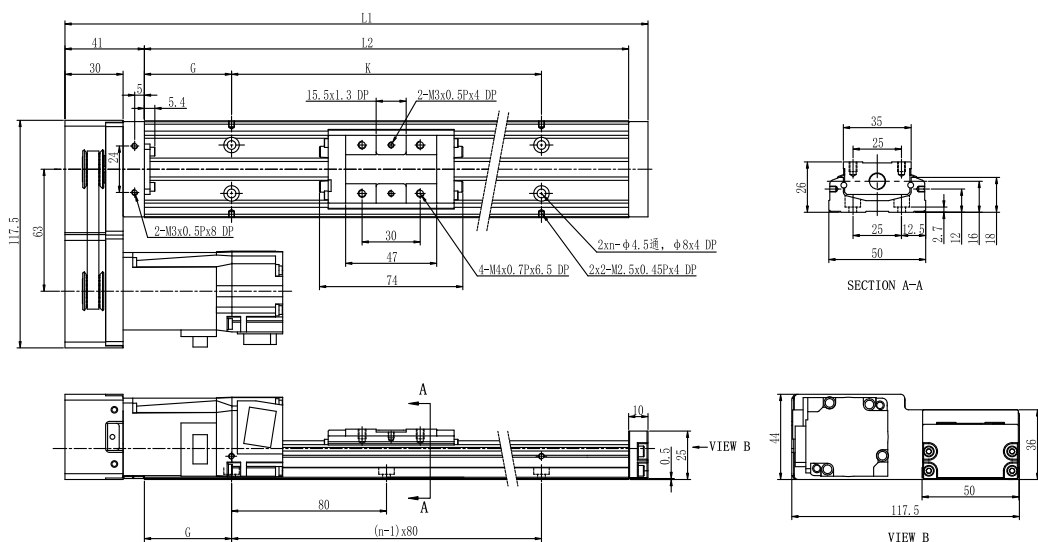
单位:Unit:mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	202	70	—	35	80	2	1	—
200	252	120	55	20	160	3	1.2	1.4
250	302	170	105	45	160	3	1.4	1.6
300	352	220	155	30	240	4	1.6	1.8

ML KSR-50-DZ 电机外置左侧(不含护盖) KSR-50-DZ Motor external left side (without cover)

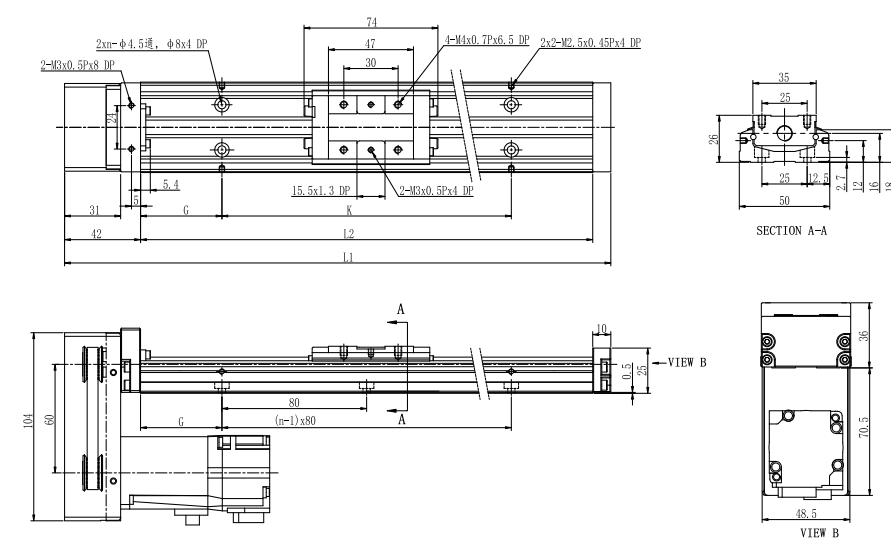
单位:Unit:mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	K(mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	201	70	—	35	80	2	1	—
200	251	120	55	20	160	3	1.2	1.4
250	301	170	105	45	160	3	1.4	1.6
300	351	220	155	30	240	4	1.6	1.8

MP KSR-50-DZ 电机外置下方(不含护盖) KSR-50-DZ Motor external under below (without cover)

单位:Unit:mm



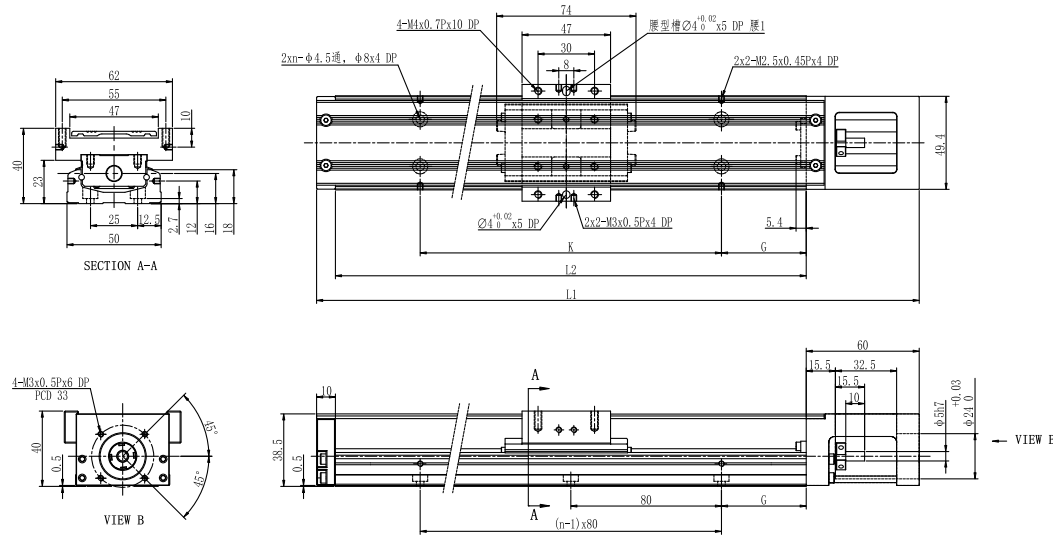
轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	202	70	—	35	80	2	1	—
200	252	120	55	20	160	3	1.2	1.4
250	302	170	105	45	160	3	1.4	1.6
300	352	220	155	30	240	4	1.6	1.8



KNR 外形尺寸 (含护盖) KNR Overall dimensions (cover included)

M KNR-50 电机外置直连 (含护盖) KNR-50 Motor external direct connection (Cover included)

单位:Unit: mm

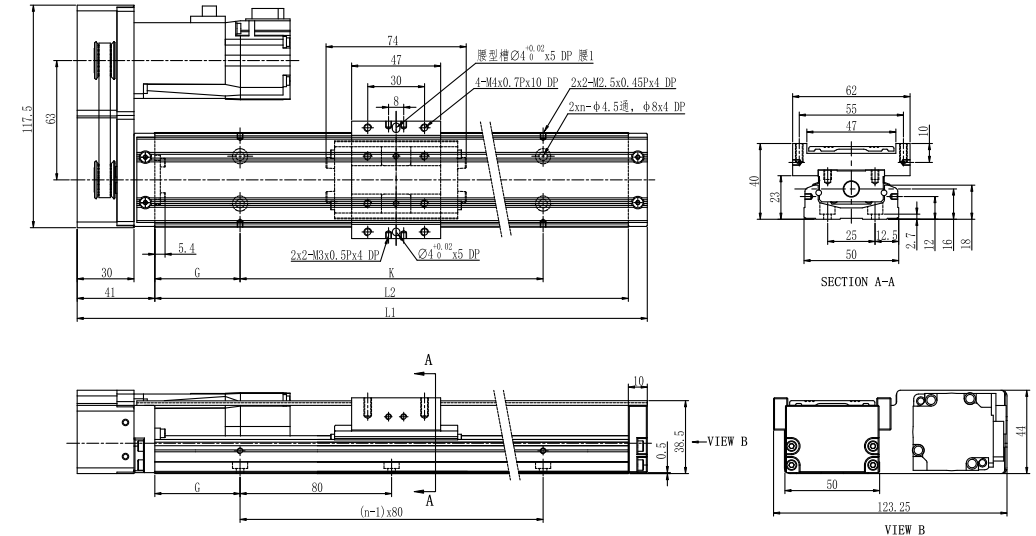


轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	220	70	—	35	80	2	1.1	—
200	270	120	55	20	160	3	1.3	1.5
250	320	170	105	45	160	3	1.6	1.8
300	370	220	155	30	240	4	1.8	2

KNR 外形尺寸 (含护盖) KNR Overall dimensions (cover included)

MR KNR-50 电机外置右侧 (含护盖) KNR-50 Motor external right side (Cover included)

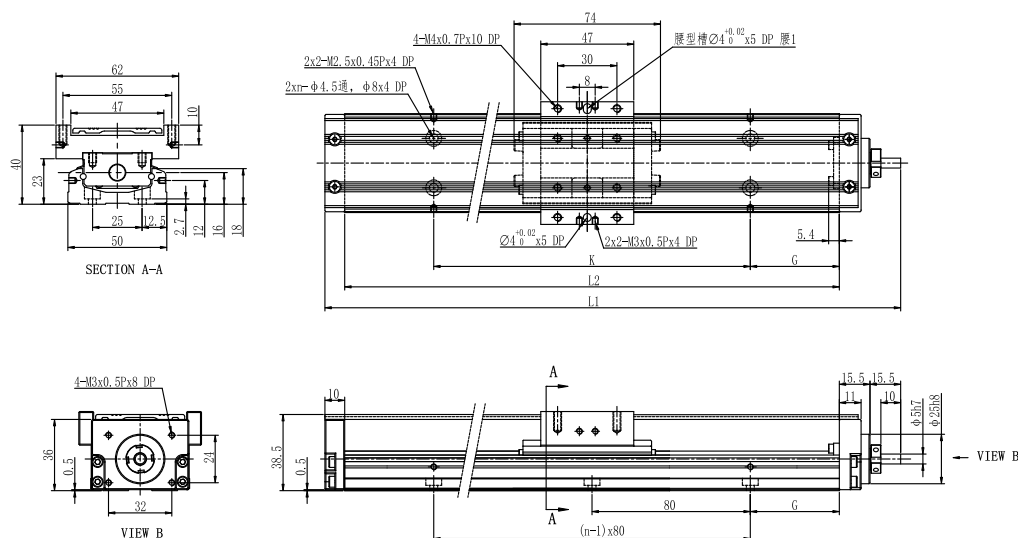
单位:Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	201	70	—	35	80	2	1.1	—
200	251	120	55	20	160	3	1.3	1.5
250	301	170	105	45	160	3	1.6	1.8
300	351	220	155	30	240	4	1.8	2

H0 KNR-50-H0 (含护盖) KNR-50-H0 (Cover included)

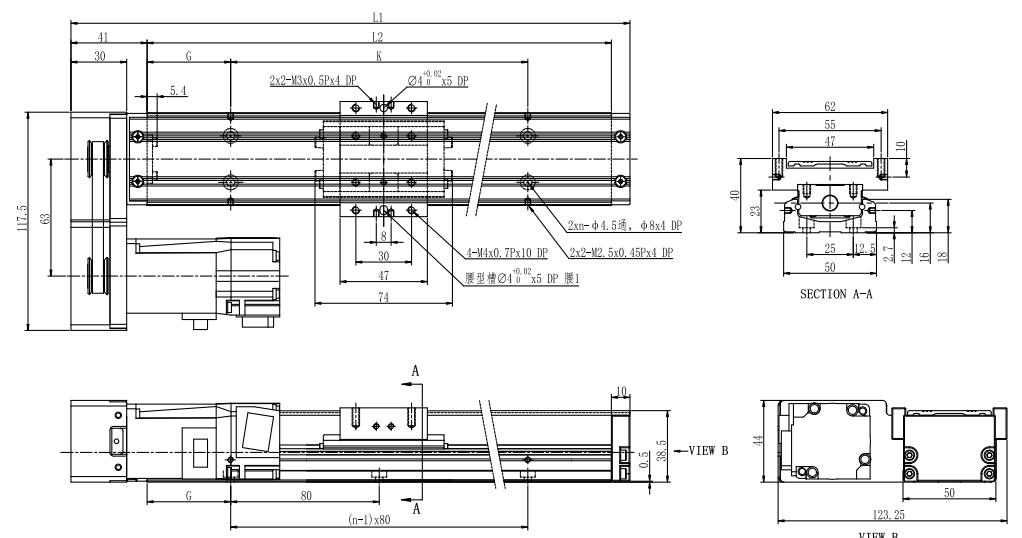
单位:Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	191	70	—	35	80	2	1.1	—
200	241	120	55	20	160	3	1.3	1.5
250	291	170	105	45	160	3	1.6	1.8
300	341	220	155	30	240	4	1.8	2

ML KNR-50 电机外置左侧 (含护盖) KNR-50 Motor external left side (Cover included)

单位:Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	201	70	—	35	80	2	1.1	—
200	251	120	55	20	160	3	1.3	1.5
250	301	170	105	45	160	3	1.6	1.8
300	351	220	155	30	240	4	1.8	2

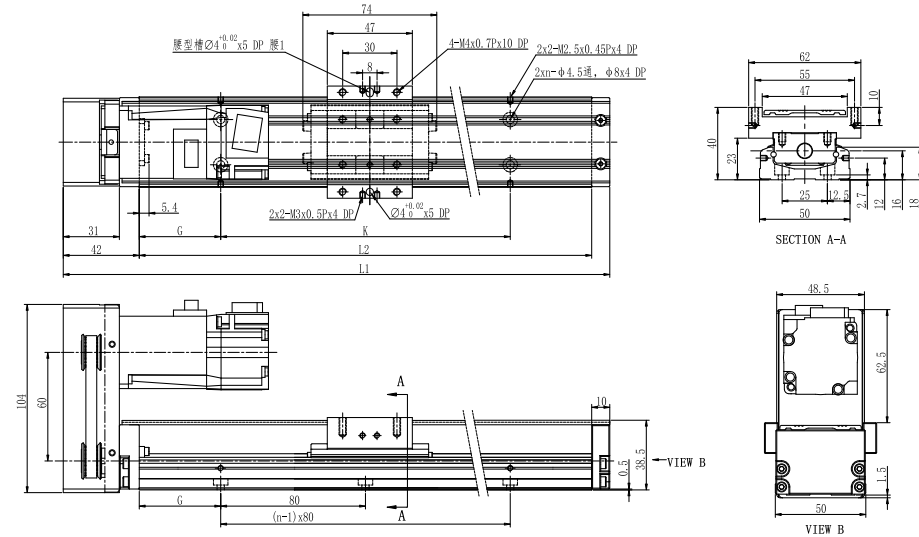


KNR 外形尺寸 (含护盖)

KNR Overall dimensions (cover included)

MU KNR-50 电机外置上方 (含护盖) KNR-50 Motor external above (Cover included)

单位:Unit: mm

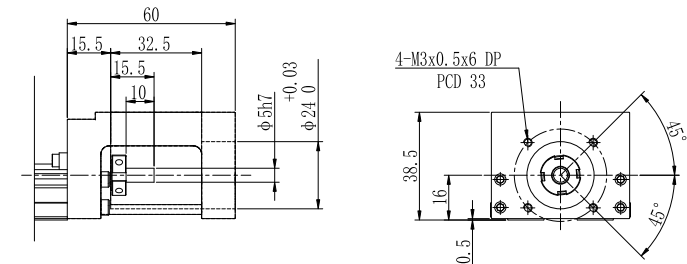


轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	202	70	—	35	80	2	1.1	—
200	252	120	55	20	160	3	1.3	1.5
250	302	170	105	45	160	3	1.6	1.8
300	352	220	155	30	240	4	1.8	2

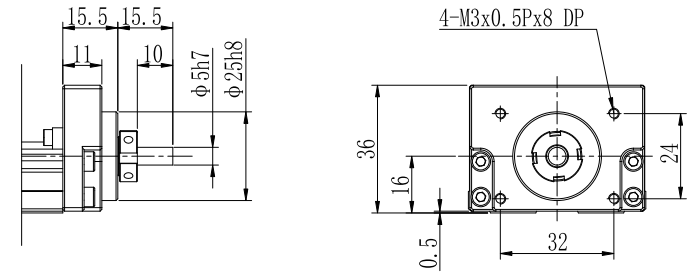
电机座与电机连接法兰

Motor seat and motor connecting flange

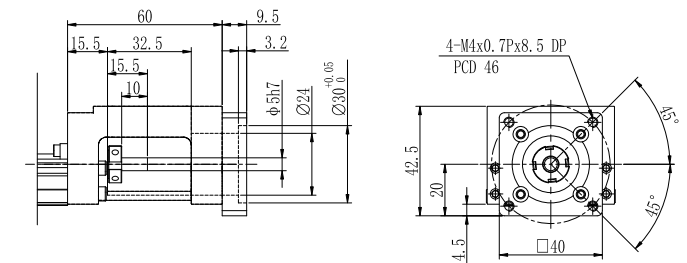
50 电机座 F0 Motor seat F0



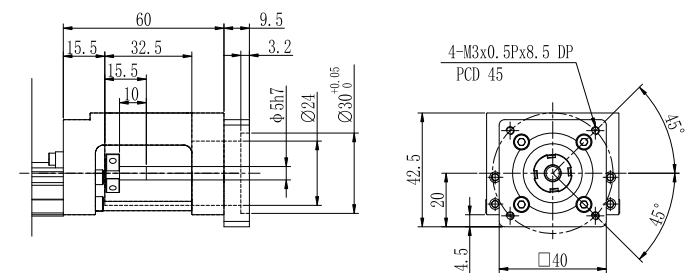
电机座 H0 Motor seat H0



50 电机连接法兰 F1 (台达/安川/汇川/三菱/富士 100W) Connecting flange F1 of motor (Delta/Yaskawa/Inovance/Mitsubishi/Fuji 100W)

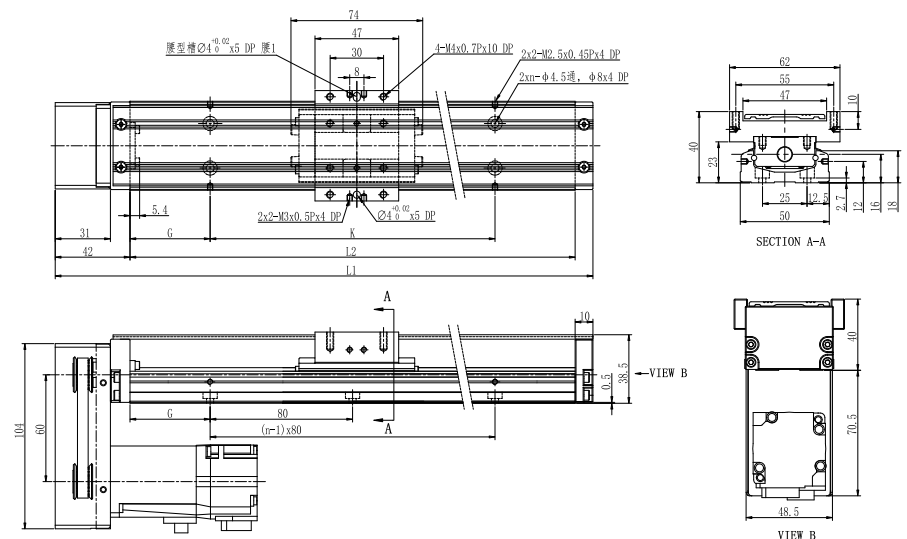


电机连接法兰 F2 (松下 50W/100W) Connecting flange F2 of motor (Panasonic 50W/100W)



MP KNR-50 电机外置下方 (含护盖) KNR-50 Motor external under below (Cover included)

单位:Unit: mm

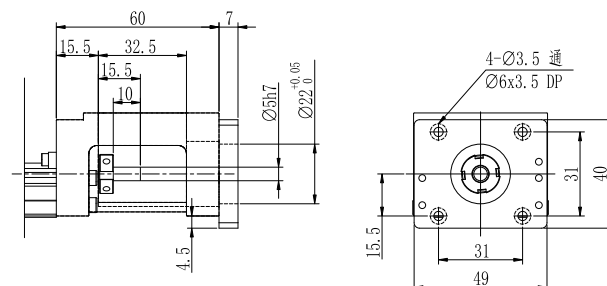


轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	202	70	—	35	80	2	1.1	—
200	252	120	55	20	160	3	1.3	1.5
250	302	170	105	45	160	3	1.6	1.8
300	352	220	155	30	240	4	1.8	2



电机座与电机连接法兰 Motor seat and motor connecting flange

50 电机连接法兰F3(42步进) Connecting flange F3 of motor (42 Stepper)



MEMO

KSR

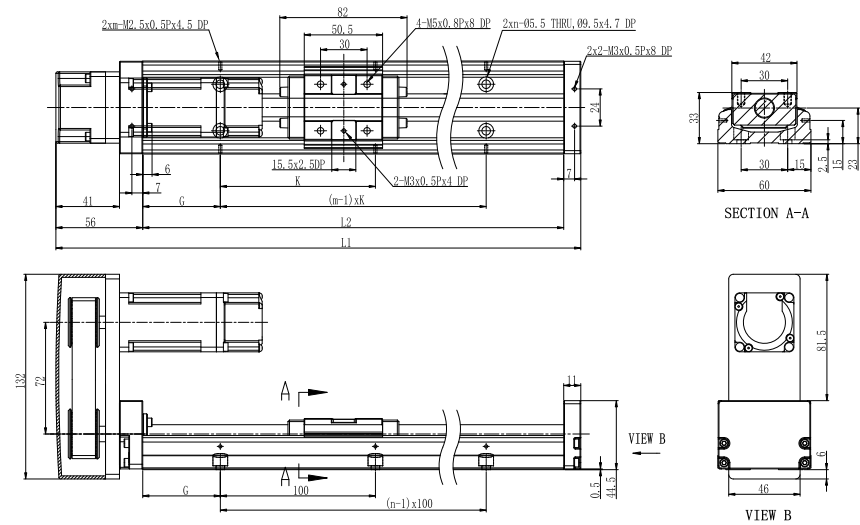
KNR-E

参考资料
Reference
data

KSR 外形尺寸 (不含护盖)
KSR Overall dimensions (without cover)

MU KSR-60 电机外置上方 (不含护盖) KSR-60 Motor external above (without cover)

单位: Unit: mm

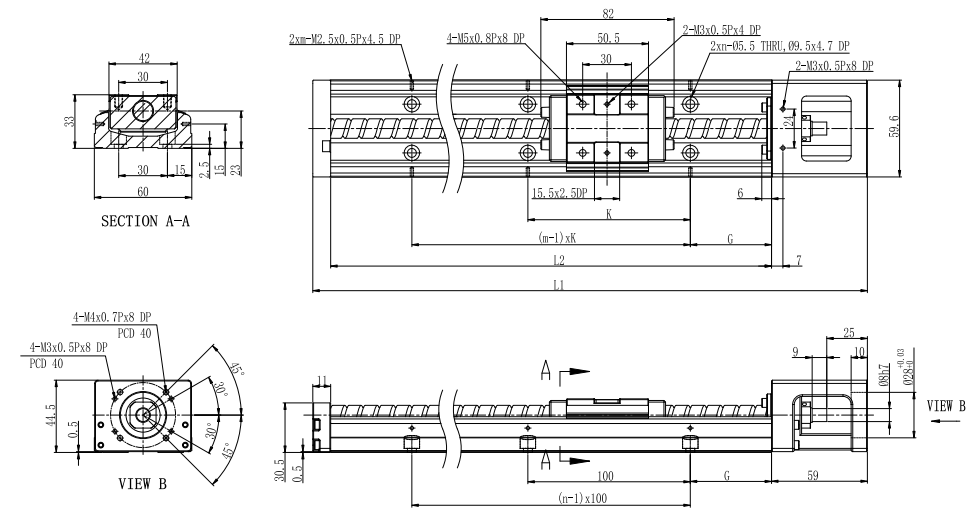


轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	217	60	—	25	100	2	2	1.4	—
200	267	110	—	50	100	2	2	1.7	—
300	367	210	135	50	200	3	2	2.3	2.6
400	467	310	235	50	100	4	4	3.2	3.2
500	567	410	335	50	200	5	3	3.5	3.8
600	667	510	435	50	100	6	6	4.1	4.5

KSR 外形尺寸 (不含护盖)
KSR Overall dimensions (without cover)

M KSR-60-DZ 电机外置直连 (不含护盖) KSR-60-DZ Motor external direct connection (without cover)

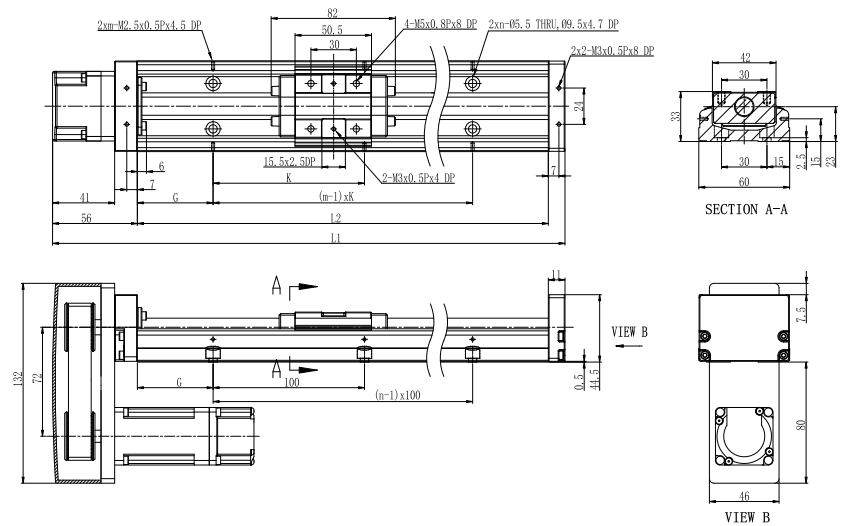
单位: Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	220	60	—	25	100	2	2	1.5	—
200	270	110	—	50	100	2	2	1.8	—
300	370	210	135	50	200	3	2	2.4	2.7
400	470	310	235	50	100	4	4	3	3.3
500	570	410	335	50	200	5	3	3.6	3.9
600	670	510	435	50	100	6	6	4.2	4.6

MP KSR-60 电机外置下方 (不含护盖) KSR-60 Motor external under below (without cover)

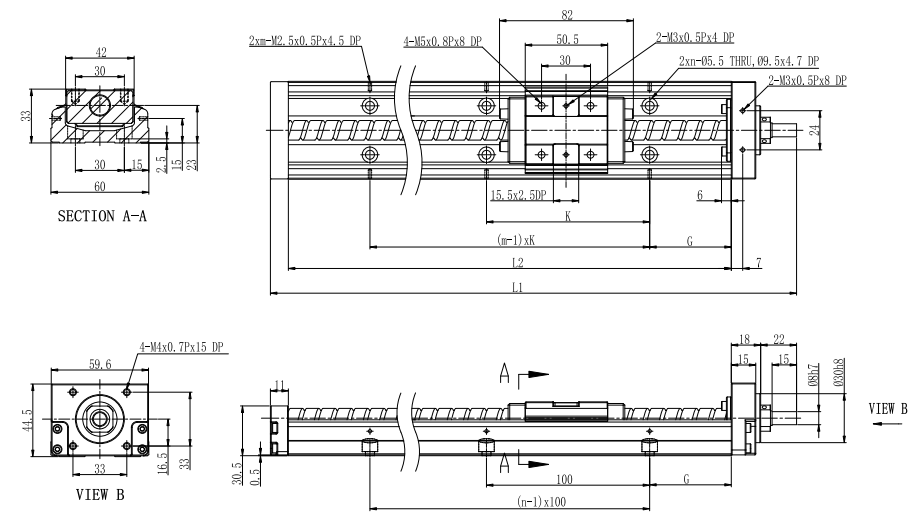
单位: Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	217	60	—	25	100	2	2	1.4	—
200	267	110	—	50	100	2	2	1.7	—
300	367	210	135	50	200	3	2	2.3	2.6
400	467	310	235	50	100	4	4	3.2	3.2
500	567	410	335	50	200	5	3	3.5	3.8
600	667	510	435	50	100	6	6	4.1	4.5

H0 KSR-60-DZ-H0 (不含护盖) KSR-60-DZ-H0 (without cover)

单位: Unit: mm

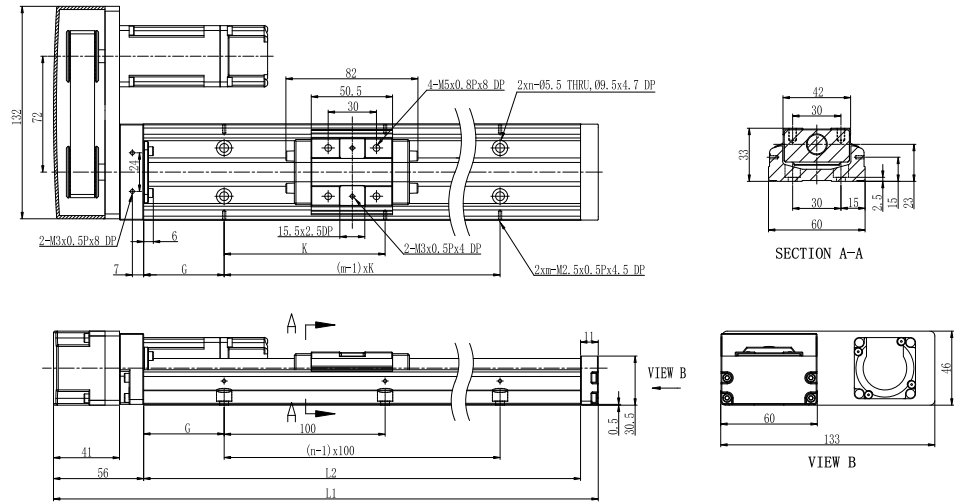


轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	201	60	—	25	100	2	2	1.4	—
200	251	110	—	50	100	2	2	1.7	—
300	351	210	135	50	200	3	2	2.3	2.6
400	451	310	235	50	100	4	4	3.2	3.2
500	551	410	335	50	200	5	3	3.5	3.8
600	651	510	435	50	100	6	6	4.1	4.5

KSR 外形尺寸 (不含护盖) KSR Overall dimensions (without cover)

MR KSR-60-DZ 电机外置右侧 (不含护盖) KSR-60-DZ Motor external right side (without cover)

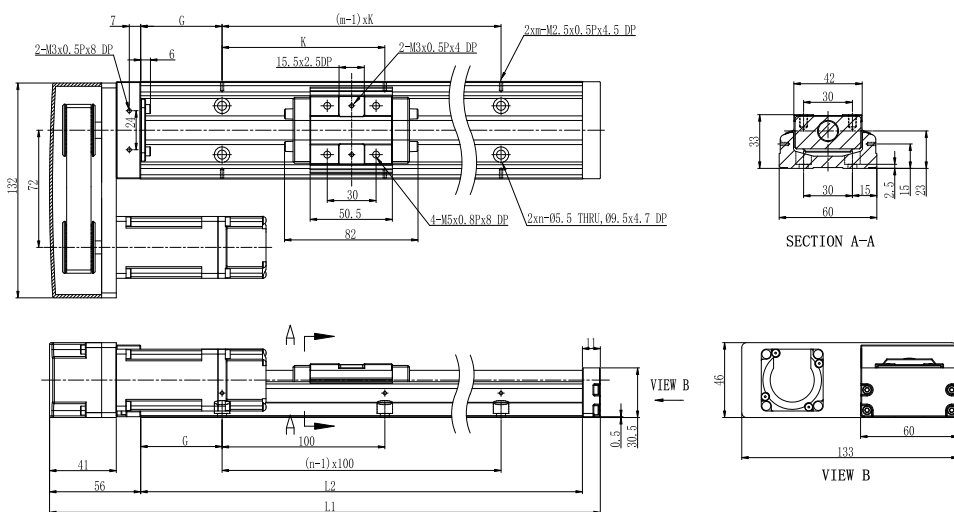
单位:Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	217	60	—	25	100	2	2	1.4	—
200	267	110	—	50	100	2	2	1.7	—
300	367	210	135	50	200	3	2	2.3	2.6
400	467	310	235	50	100	4	4	3.2	3.2
500	567	410	335	50	200	5	3	3.5	3.8
600	667	510	435	50	100	6	6	4.1	4.5

ML KSR-60-DZ 电机外置左侧 (不含护盖) KSR-60-DZ Motor external left side (without cover)

单位:Unit: mm

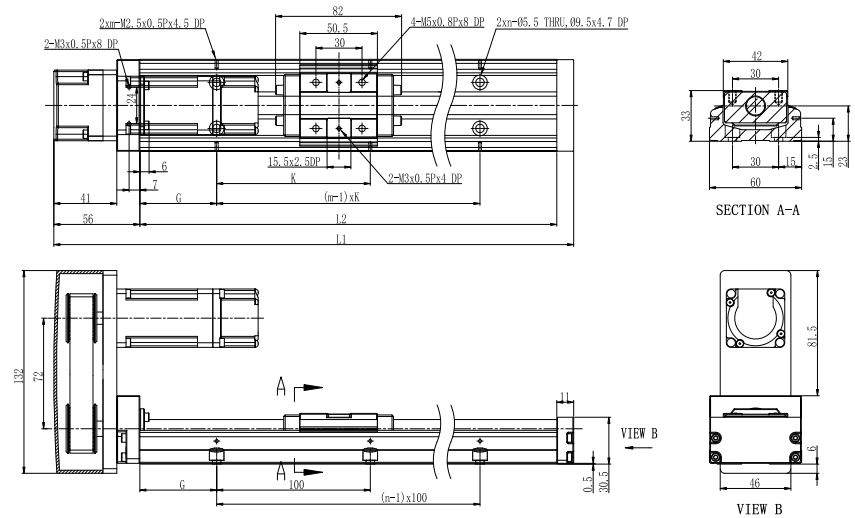


轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	217	60	—	25	100	2	2	1.4	—
200	267	110	—	50	100	2	2	1.7	—
300	367	210	135	50	200	3	2	2.3	2.6
400	467	310	235	50	100	4	4	3.2	3.2
500	567	410	335	50	200	5	3	3.5	3.8
600	667	510	435	50	100	6	6	4.1	4.5

KSR 外形尺寸 (不含护盖) KSR Overall dimensions (without cover)

MU KSR-60-DZ 电机外置上方 (不含护盖) KSR-60-DZ Motor external above (without cover)

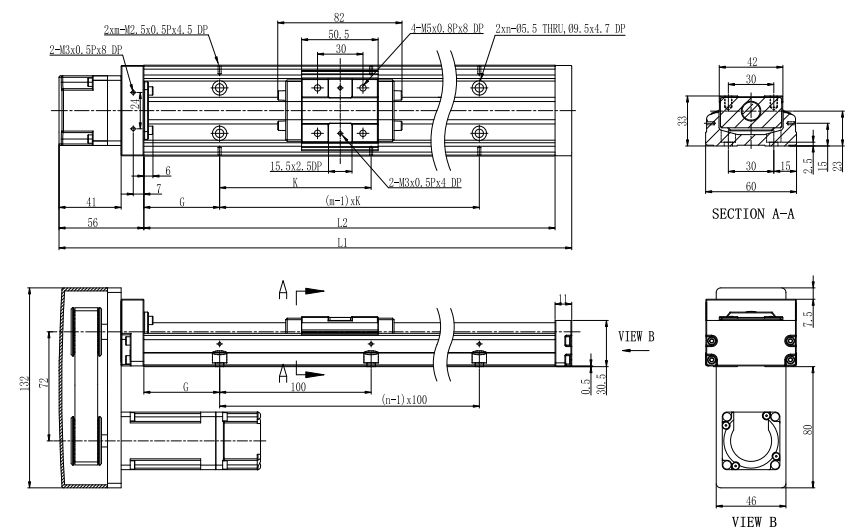
单位:Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	217	60	—	25	100	2	2	1.4	—
200	267	110	—	50	100	2	2	1.7	—
300	367	210	135	50	200	3	2	2.3	2.6
400	467	310	235	50	100	4	4	3.2	3.2
500	567	410	335	50	200	5	3	3.5	3.8
600	667	510	435	50	100	6	6	4.1	4.5

MP KSR-60-DZ 电机外置下方 (不含护盖) KSR-60-DZ Motor external under below (without cover)

单位:Unit: mm



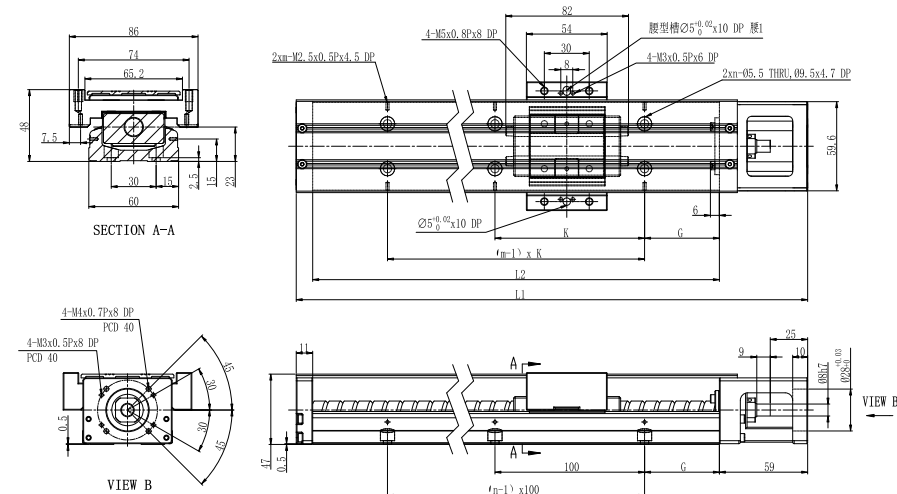
轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	217	60	—	25	100	2	2	1.4	—
200	267	110	—	50	100	2	2	1.7	—
300	367	210	135	50	200	3	2	2.3	2.6
400	467	310	235	50	100	4	4	3.2	3.2
500	567	410	335	50	200	5	3	3.5	3.8
600	667	510	435	50	100	6	6	4.1	4.5

■ KNR 外形尺寸(含护盖)

KNR Overall dimensions(Cover included)

M KNR-60 电机外置直连(含护盖) KNR-60 Motor external direct connection (Cover included)

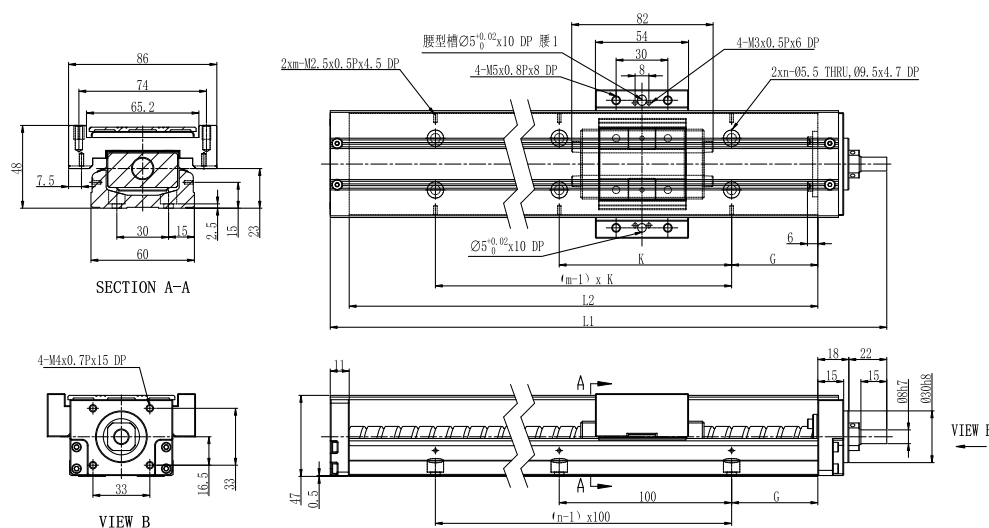
单位:Unit:mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	K(mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	220	60	—	25	100	2	2	1.7	—
200	270	110	—	50	100	2	2	2.1	—
300	370	210	135	50	200	3	2	2.7	3
400	470	310	235	50	100	4	4	3.3	3.6
500	570	410	335	50	200	5	3	3.9	4.2
600	670	510	435	50	100	6	6	4.6	5

H0 KNR-60-H0 (含护盖) KNR-60-H0 (including cover)

单位:Unit:mm



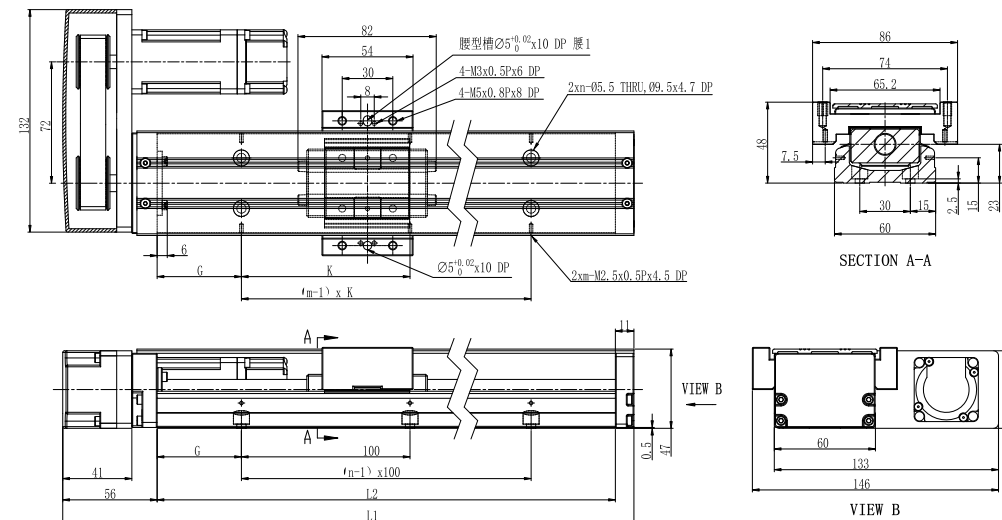
轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	K(mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 slide carriage					滑座 A1 Slide carriage	滑座 A2 slide carriage
150	201	60	—	25	100	2	2	1.6	—
200	251	110	—	50	100	2	2	2	—
300	351	210	135	50	200	3	2	2.6	2.9
400	451	310	235	50	100	4	4	3.2	3.5
500	551	410	335	50	200	5	3	3.8	4.1
600	651	510	435	50	100	6	6	4.5	4.9

KNR 外形尺寸(含护盖)

KNR Overall dimensions(Cover included)

MR KNR-60 电机外置右侧(含护盖) KNR-60 Motor external right side (Cover included)

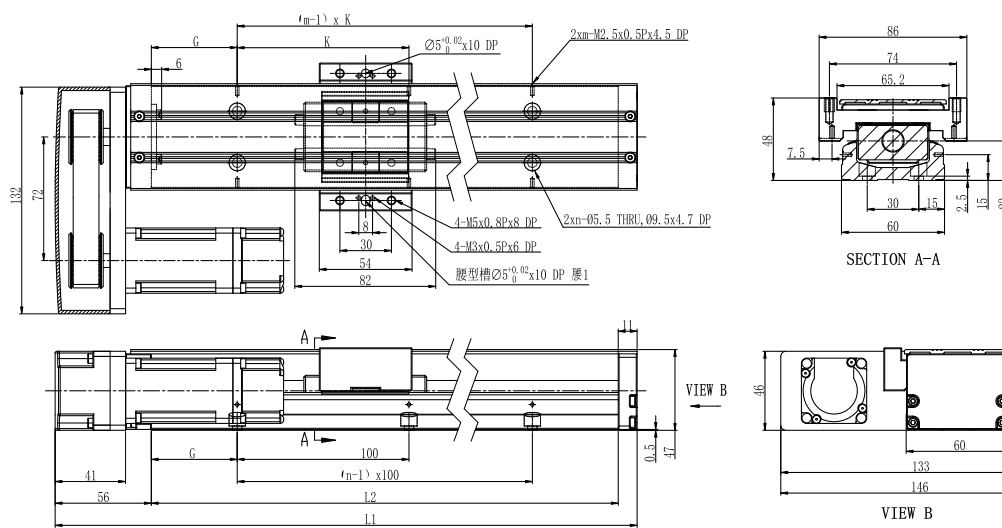
单位:Unit:mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	K(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	217	60	—	25	100	2	2	1.6	—
200	267	110	—	50	100	2	2	2	—
300	367	210	135	50	200	3	2	2.6	2.9
400	467	310	235	50	100	4	4	3.2	3.5
500	567	410	335	50	200	5	3	3.8	4.1
600	667	510	435	50	100	6	6	4.5	4.9

ML KNR-60 电机外置左侧(含护盖) KNR-60 Motor external left side (Cover included)

单位:Unit:mm



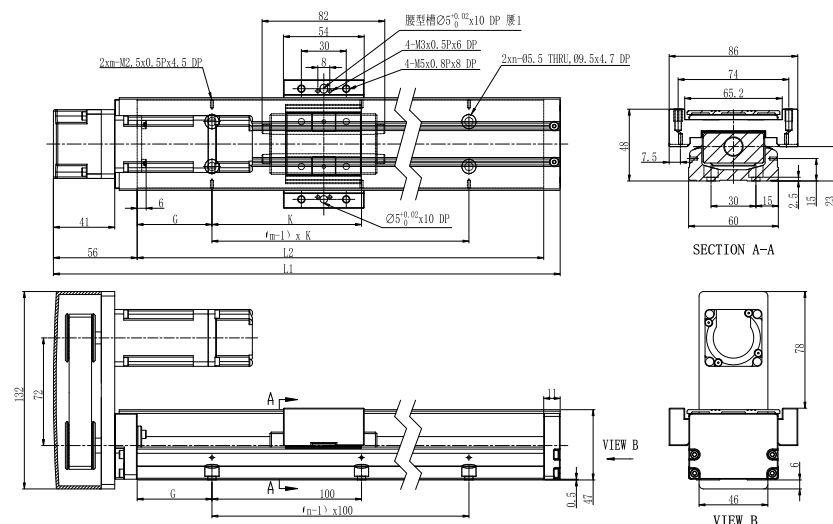
轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	K(mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	217	60	—	25	100	2	2	1.6	—
200	267	110	—	50	100	2	2	2	—
300	367	210	135	50	200	3	2	2.6	2.9
400	467	310	235	50	100	4	4	3.2	3.5
500	567	410	335	50	200	5	3	3.8	4.1
600	667	510	435	50	100	6	6	4.5	4.9

KNR 外形尺寸(含护盖)

KNR Overall dimensions(Cover included)

MU KNR-60 电机外置上方(含护盖) KNR-60 Motor external above (Cover included)

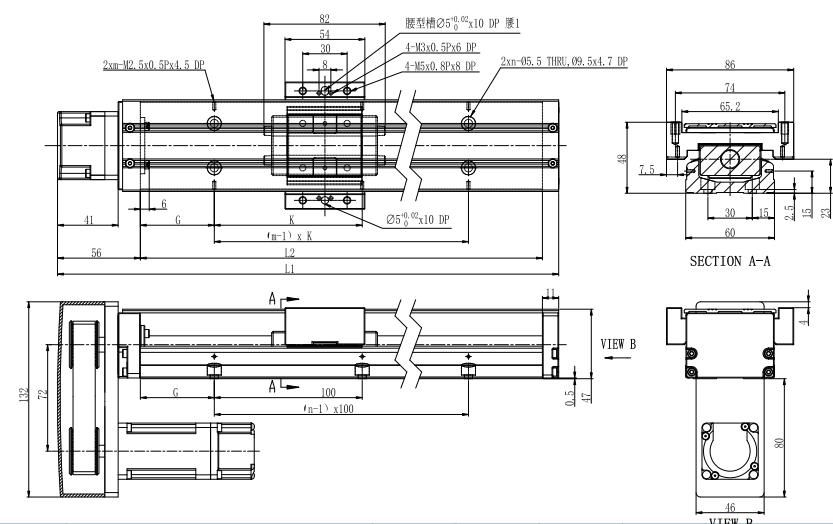
单位:Unit:mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	K(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	217	60	—	25	100	2	2	1.6	—
200	267	110	—	50	100	2	2	2	—
300	367	210	135	50	200	3	2	2.6	2.9
400	467	310	235	50	100	4	4	3.2	3.5
500	567	410	335	50	200	5	3	3.8	4.1
600	667	510	435	50	100	6	6	4.5	4.9

MP KNR-60 电机外置下方(含护盖) KNR-60 Motor external under below (Cover included)

单位:Unit:mm



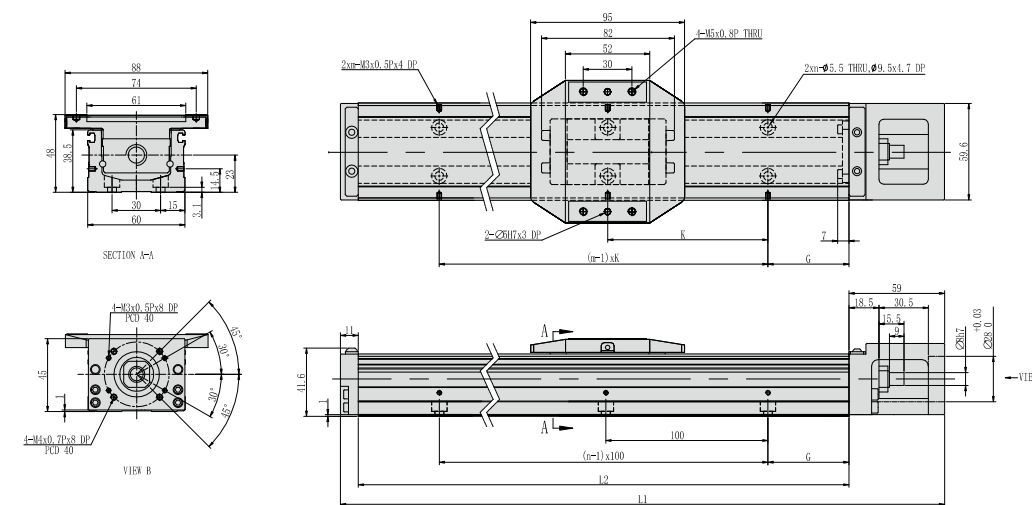
轨道长度 L2 Track length	全长(L1) Full length	最大行程 (mm) Maximum travel		G (mm)	K (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	217	60	—	25	100	2	2	1.6	—
200	267	110	—	50	100	2	2	2	—
300	367	210	135	50	200	3	2	2.6	2.9
400	467	310	235	50	100	4	4	3.2	3.5
500	567	410	335	50	200	5	3	3.8	4.1
600	667	510	435	50	100	6	6	4.5	4.9

KCR 外形尺寸

KCR Overall dimensions

M KCR-60 电机外置直连 KCR-60 Motor external direct connection

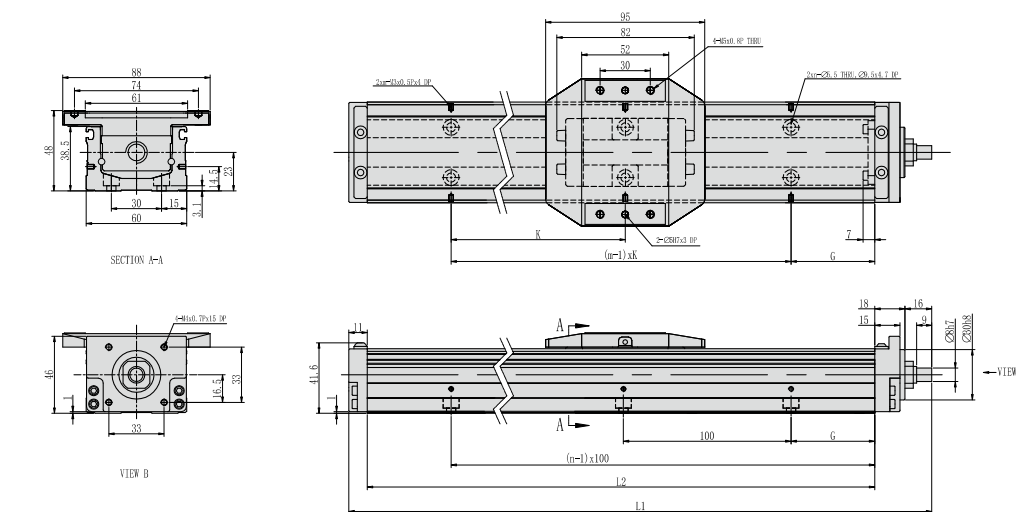
单位:Unit:mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	K(mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	220	60	—	25	100	2	2	1.7	—
200	270	110	—	50	100	2	2	2.1	—
300	370	210	135	50	200	3	2	2.7	3
400	470	310	235	50	100	4	4	3.3	3.6
500	570	410	335	50	200	5	3	3.9	4.2
600	670	510	435	50	100	6	6	4.6	5

H0 KCR-60-H0

单位:Unit:mm

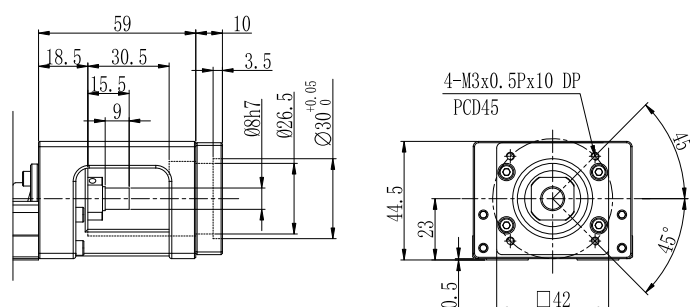


轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	K(mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
150	201	60	—	25	100	2	2	1.6	—
200	251	110	—	50	100	2	2	2	—
300	351	210	135	50	200	3	2	2.6	2.9
400	451	310	235	50	100	4	4	3.2	3.5
500	551	410	335	50	200	5	3	3.8	4.1
600	651	510	435	50	100	6	6	4.5	4.9

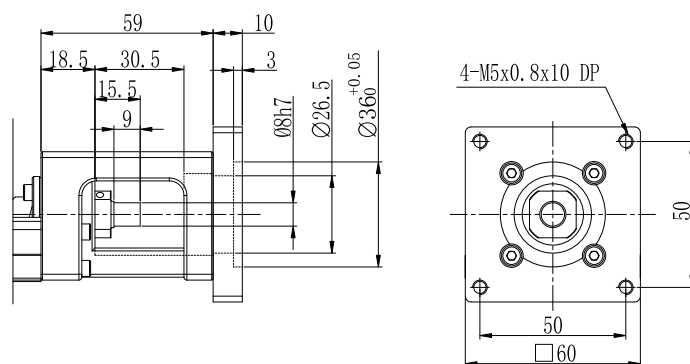
电机座与电机连接法兰 Motor seat and motor connecting flange

电机座与电机连接法兰 Motor seat and motor connecting flange

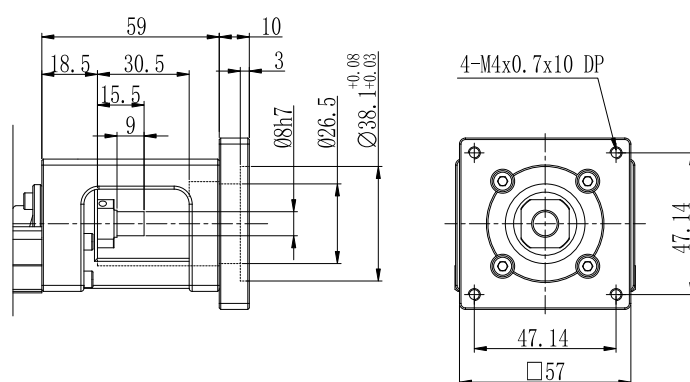
60 电机连接法兰F2(松下 50W/100W) Connecting flange F2 of motor (Panasonic 50W/100W)



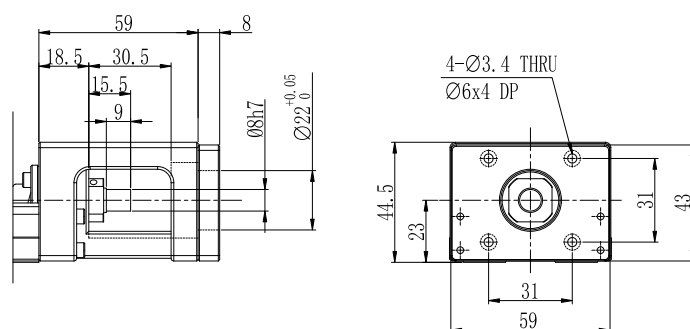
电机连接法兰F3(60步进) Connecting flange F3 of motor (60 Stepper)



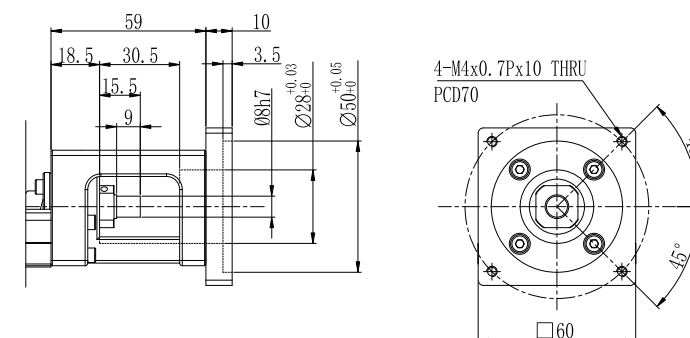
60 电机连接法兰F4(57步进) Connecting flange F4 of motor (57 Stepper)



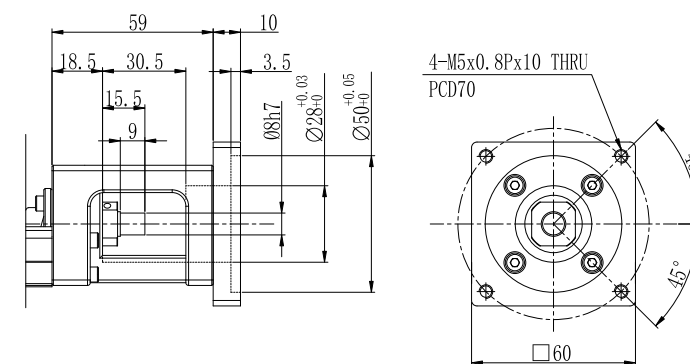
电机连接法兰F5(42步进) Connecting flange F5 of motor (42 Stepper)



60 电机连接法兰F6(松下 200W/400W) Connecting flange F6 of motor (Panasonic 200W/400W)



电机连接法兰F7(台达/安川/汇川/三菱/富士 200W/400W) Connecting flange F7 of motor (Delta/Yaskawa/Inovance/Mitsubishi/Fuji 200W/400W)



KSR

KNR-E

参考资料
Reference
data



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

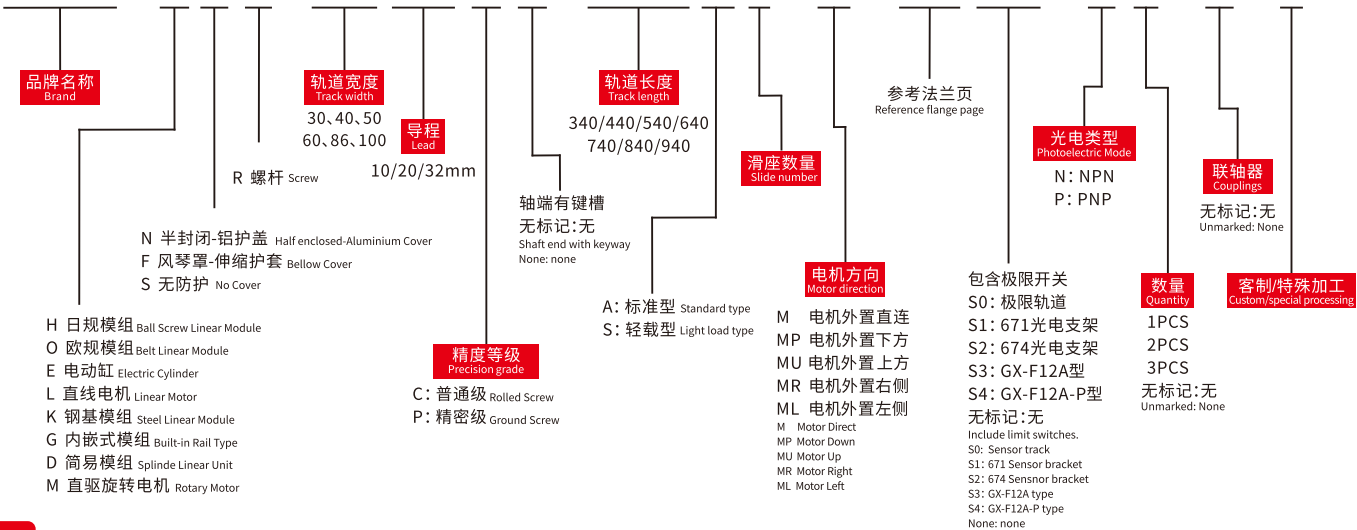
最大行程
Max Stroke 816.5mm

最高速度
Max Speed 1600mm/sec

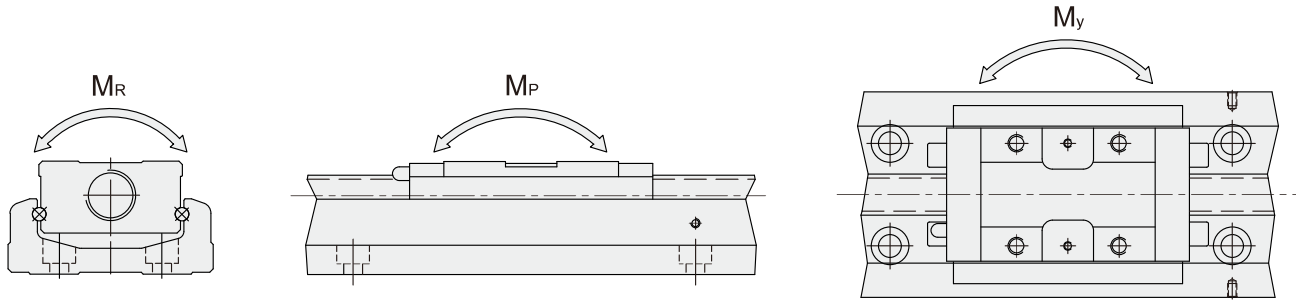
滚珠螺杆
Ball Screw Ø 16 mm

型号表达方式 Ordering method

TPA-KSR-8610CK-340A1-M-F0S2-N3-D-F



负载规格 Load specification



技术参数 Technical parameter

型 号 Model	精密级 Precision grade 一般级 General grade	滚珠螺杆 Ballscrew		线性滑轨 Linear slider rail															
		公称外径 (mm)	导程 (mm)	基本动态额定负荷 (N)	基本静态额定负荷 (N)	基本动态额定负荷 (N)				基本静态额定负荷 (N)				容许静力矩 Allowable static moment					
		滑座 A Slide carriage	滑座 S Slide carriage	滑座 A Slide carriage	滑座 S Slide carriage	俯仰 M _p (N-m)				偏摆 M _y (N-m)				滚动 M _r (N-m)				滑座 S1 Slide carriage	滑座 S2 Slide carriage
						滑座 A1 Slide carriage	滑座 A2 Slide carriage	滑座 S1 Slide carriage	滑座 S2 Slide carriage	滑座 A1 Slide carriage	滑座 A2 Slide carriage	滑座 S1 Slide carriage	滑座 S2 Slide carriage	滑座 A1 Slide carriage	滑座 A2 Slide carriage	滑座 S1 Slide carriage	滑座 S2 Slide carriage		
KSR 8610		15	10	7144	12642	31458	21051	50764	29475	622	3050	228	1309	622	3050	228	1309	1507	3014
KSR 8620		15	20	4645	7655	31458	21051	50764	29475	622	3050	228	1309	622	3050	228	1309	1507	3014
KSR 8632		16	32	3488	6075	31458	21051	50764	29475	622	3050	228	1309	622	3050	228	1309	1507	3014

精度等级 Precision grade

型 号 Model	轨道长度 Track length	定位重现性 Positioning reproducibility		定位精度 positioning accuracy		行走平行度 Walking parallelism		最大启动扭力: (N-cm) Maximum starting torque	
		精密级 Precise grade	一般级 General grade	精密级 Precise grade	一般级 General grade	精密级 Precise grade	一般级 General grade	精密级 Precise grade	一般级 General grade
KSR 86	340	±0.003	±0.005	0.025	-	0.015	-	15	10
	440								
	540								
	640								
	740	±0.003	±0.005	0.030	-	0.020	-	17	10
	840	±0.003	±0.005	0.030	-	0.020	-	17	10
	940	±0.003	±0.005	0.040	-	0.030	-	25	10

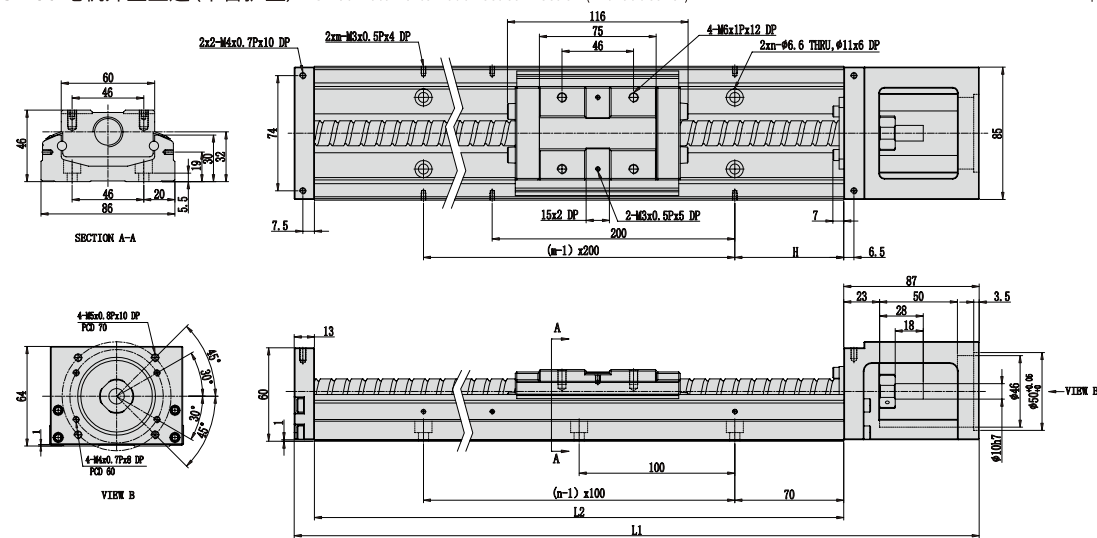
最大速度 Maximum speed

型 号 Model	滚珠螺杆导程 (mm) Ballscrew lead	轨道长度 L2 (mm) Track length	速度 (mm/sec) Speed	
			精密级 Precise grade	一般级 General grade
KSR 86	10	340	740	520
		440	740	520
		540	740	520
		640	740	520
		740	740	520
		840	610	430
	20	940	610	430
		340	1480	1050
		440	1480	1050
		540	1480	1050
		640	1480	1050
		740	1480	1050
	32	840	1220	870
		940	1220	870
		340	-	1600
		440	-	1600
		540	-	1600
		640	-	1600
		740	-	1600
		840	-	1320
		940	-	1320

KSR 外形尺寸(不含护盖)
KSR Overall dimensions(without cover)

M KSR-86 电机外置直连 (不含护盖) KSR-86 Motor external direct connection (without cover)

单位:Unit: mm

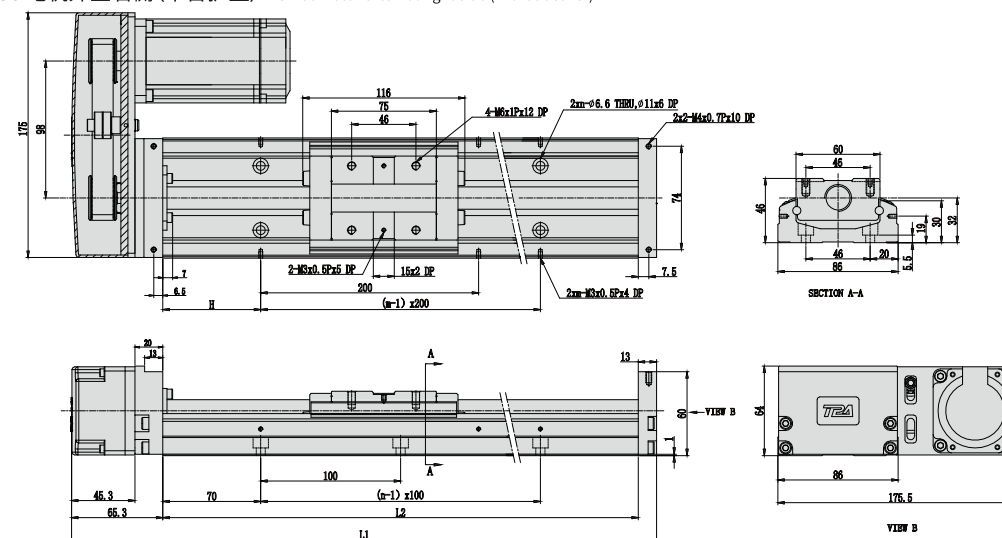


轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		H(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	440	210	100	70	3	2	5.7	6.5
440	540	310	200	20	4	3	6.9	7.7
540	640	410	300	70	5	3	8	8.8
640	740	510	400	20	6	4	9.2	10
740	840	610	500	70	7	4	10.4	11.2
840	940	710	600	20	8	5	11.6	12.4
940	1040	810	700	70	9	5	12.8	13.6

KSR 外形尺寸(不含护盖)
KSR Overall dimensions(without cover)

MR KSR-86 电机外置右侧 (不含护盖) KSR-86 Motor external right side (without cover)

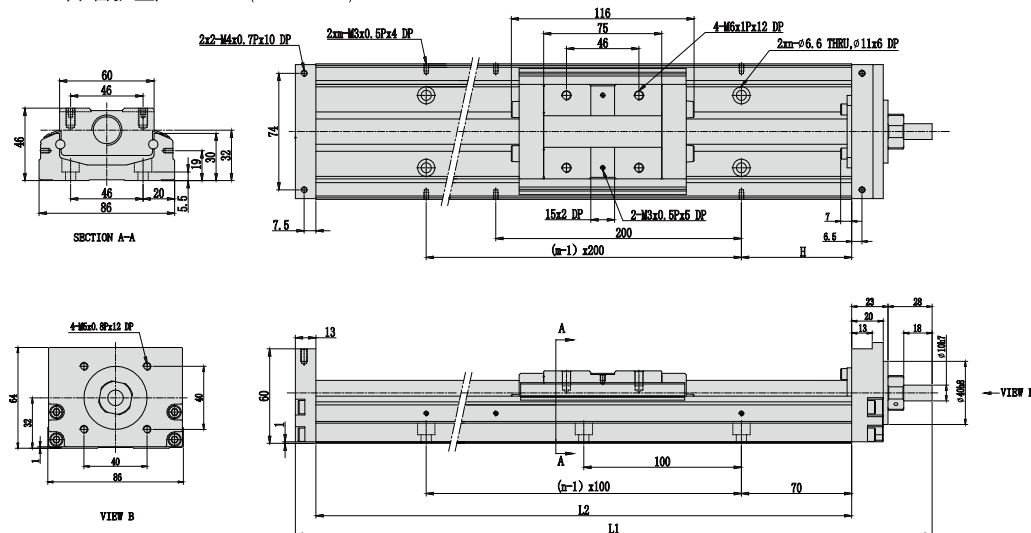
单位:Unit:mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		H(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	418	210	100	70	3	2	5.6	6.4
440	518	310	200	20	4	3	6.8	7.6
540	618	410	300	70	5	3	7.9	8.7
640	718	510	400	20	6	4	9.1	9.9
740	818	610	500	70	7	4	10.3	11.1
840	918	710	600	20	8	5	11.5	12.3
940	1018	810	700	70	9	5	12.7	13.5

H0 KSR-86-H0 (不含护盖) KSR-86-H0 (without cover)

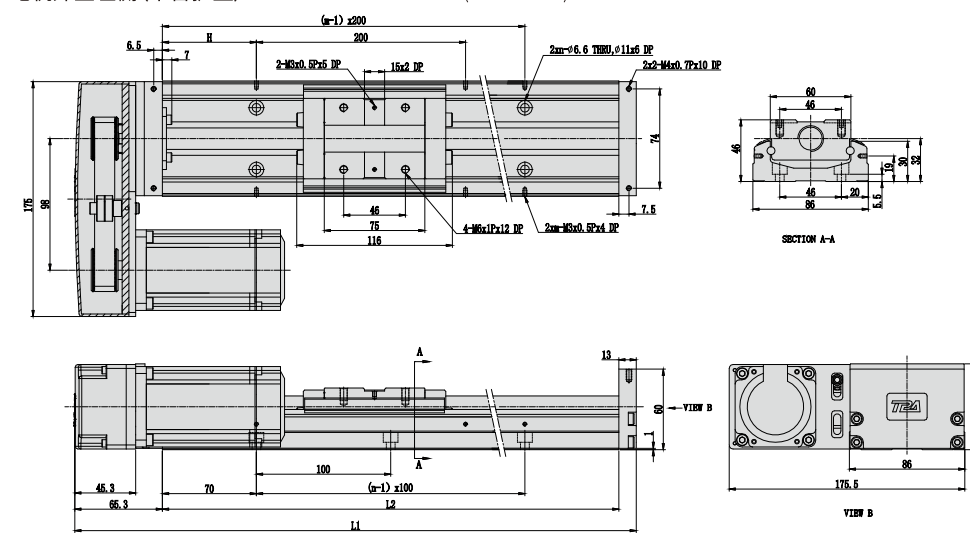
单位:Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		H (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	404	210	100	70	3	2	5.6	6.4
440	504	310	200	20	4	3	6.8	7.6
540	604	410	300	70	5	3	7.9	8.7
640	704	510	400	20	6	4	9.1	9.9
740	804	610	500	70	7	4	10.3	11.1
840	904	710	600	20	8	5	11.5	12.3
940	1004	810	700	70	9	5	12.7	13.5

ML KSR-86 电机外置左侧 (不含护盖) KSR-86 Motor external left side (without cover)

单位:Unit:mm

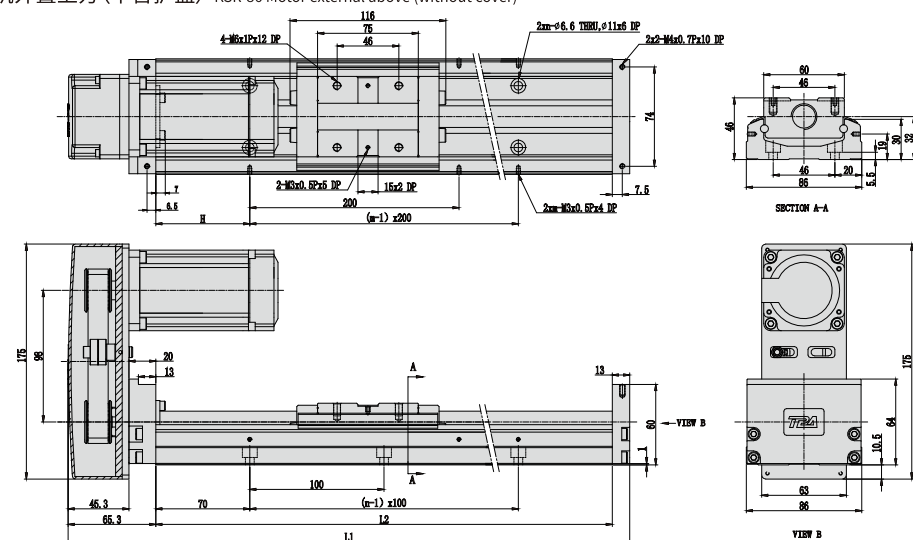


轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		H(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	418	210	100	70	3	2	5.6	6.4
440	518	310	200	20	4	3	6.8	7.6
540	618	410	300	70	5	3	7.9	8.7
640	718	510	400	20	6	4	9.1	9.9
740	818	610	500	70	7	4	10.3	11.1
840	918	710	600	20	8	5	11.5	12.3
940	1018	810	700	70	9	5	12.7	13.5

KSR 外形尺寸(不含护盖)
KSR Overall dimensions(without cover)

MU KSR-86 电机外置上方(不含护盖) KSR-86 Motor external above (without cover)

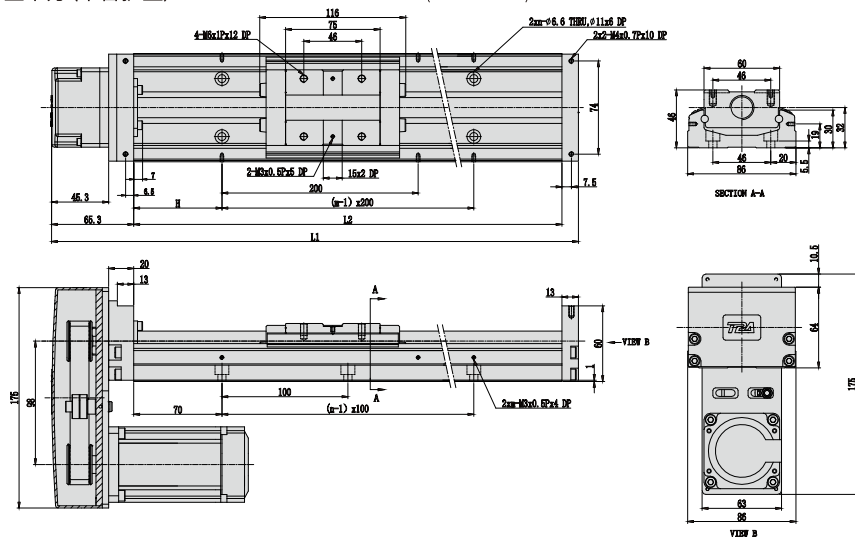
单位:Unit:mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		H (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	418	210	100	70	3	2	5.6	6.4
440	518	310	200	20	4	3	6.8	7.6
540	618	410	300	70	5	3	7.9	8.7
640	718	510	400	20	6	4	9.1	9.9
740	818	610	500	70	7	4	10.3	11.1
840	918	710	600	20	8	5	11.5	12.3
940	1018	810	700	70	9	5	12.7	13.5

MP KSR-86 电机外置下方(不含护盖) KSR-86 Motor external under below (without cover)

单位:Unit:mm

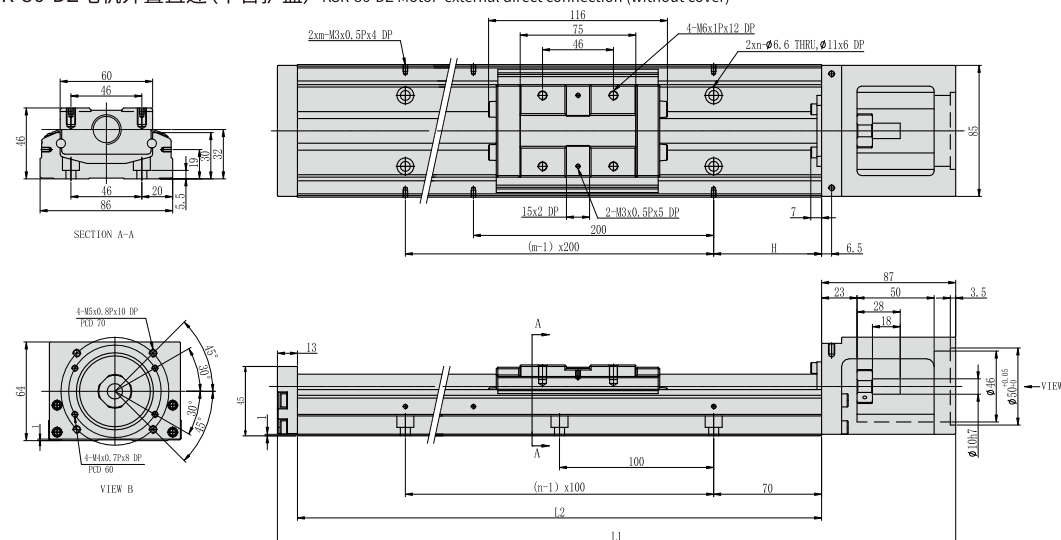


轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		H (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	418	210	100	70	3	2	5.6	6.4
440	518	310	200	20	4	3	6.8	7.6
540	618	410	300	70	5	3	7.9	8.7
640	718	510	400	20	6	4	9.1	9.9
740	818	610	500	70	7	4	10.3	11.1
840	918	710	600	20	8	5	11.5	12.3
940	1018	810	700	70	9	5	12.7	13.5

KSR 外形尺寸(不含护盖)
KSR Overall dimensions(without cover)

M KSR-86-DZ电机外置直连(不含护盖) KSR-86-DZ Motor external direct connection (without cover)

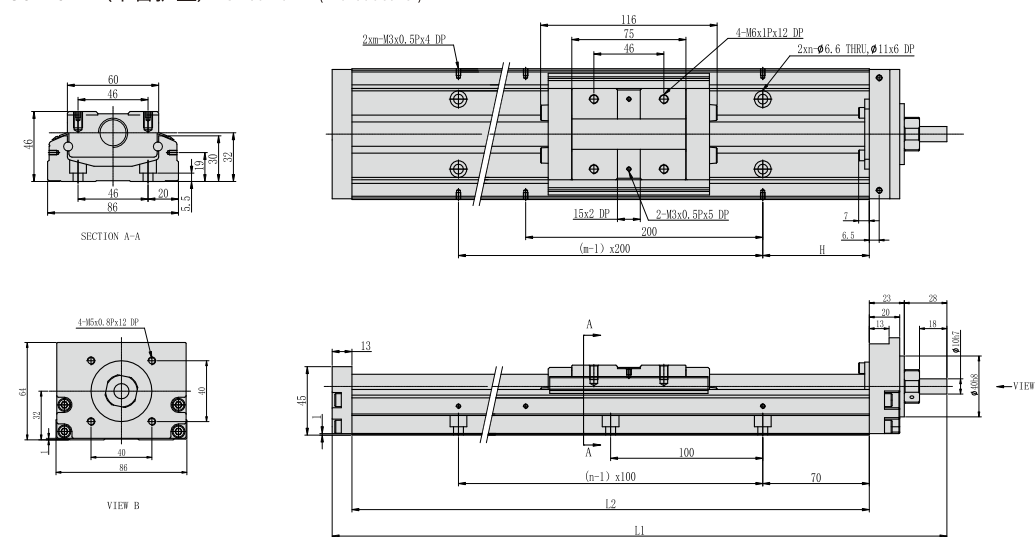
单位:Unit:mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		H(mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	440	210	100	70	3	2	5.7	6.5
440	540	310	200	20	4	3	6.9	7.7
540	640	410	300	70	5	3	8	8.8
640	740	510	400	20	6	4	9.2	10
740	840	610	500	70	7	4	10.4	11.2
840	940	710	600	20	8	5	11.6	12.4
940	1040	810	700	70	9	5	12.8	13.6

H0 KSR-86-H0-DZ (不含护盖) KSR-86-H0-DZ (without cover)

单位:Unit: mm

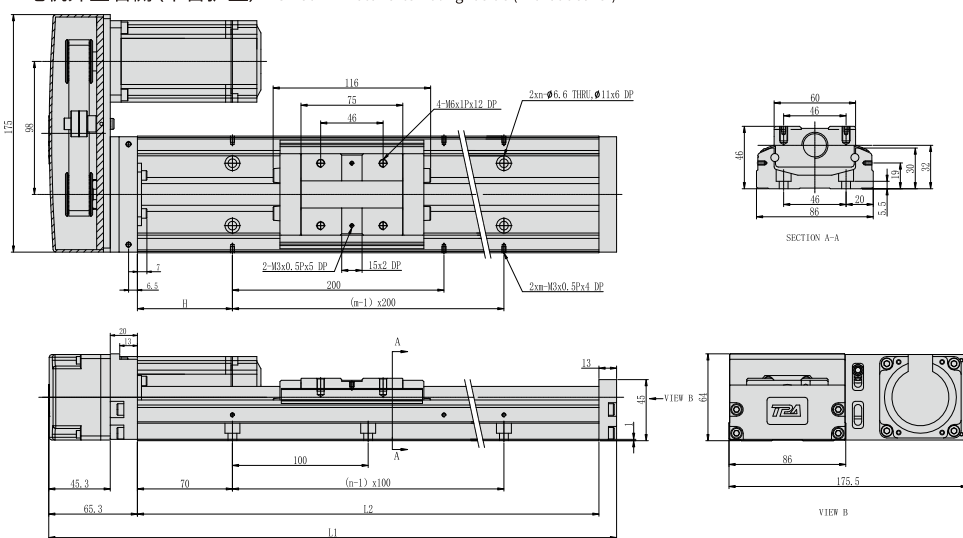


轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		H(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	404	210	100	70	3	2	5.6	6.4
440	504	310	200	20	4	3	6.8	7.6
540	604	410	300	70	5	3	7.9	8.7
640	704	510	400	20	6	4	9.1	9.9
740	804	610	500	70	7	4	10.3	11.1
840	904	710	600	20	8	5	11.5	12.3
940	1004	810	700	70	9	5	12.7	13.5

KSR 外形尺寸(不含护盖)
KSR Overall dimensions(without cover)

MR KSR-86-DZ 电机外置右侧(不含护盖) KSR-86-DZ Motor external right side (without cover)

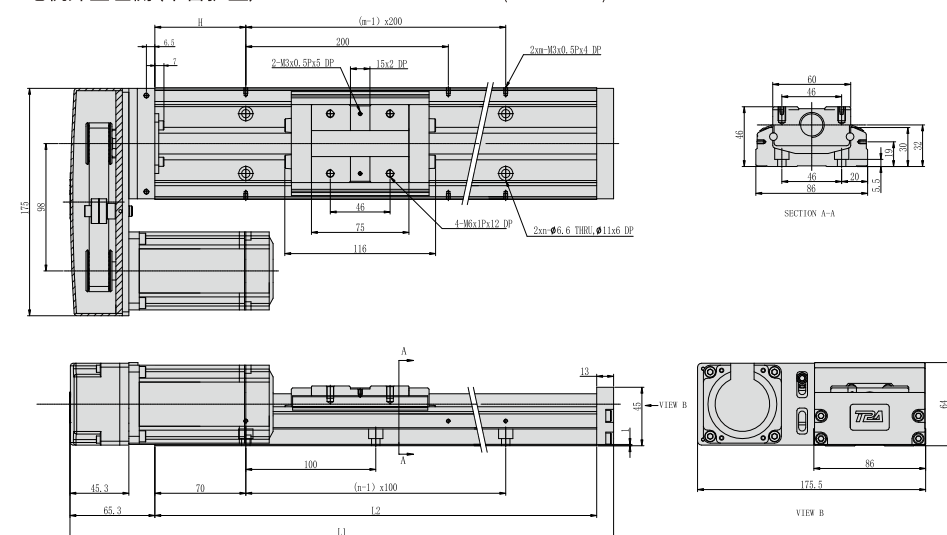
单位:Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		H (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	418	210	100	70	3	2	5.6	6.4
440	518	310	200	20	4	3	6.8	7.6
540	618	410	300	70	5	3	7.9	8.7
640	718	510	400	20	6	4	9.1	9.9
740	818	610	500	70	7	4	10.3	11.1
840	918	710	600	20	8	5	11.5	12.3
940	1018	810	700	70	9	5	12.7	13.5

ML KSR-86-DZ 电机外置左侧 (不含护盖) KSR-86-DZ Motor external left side (without cover)

单位:Unit:mm

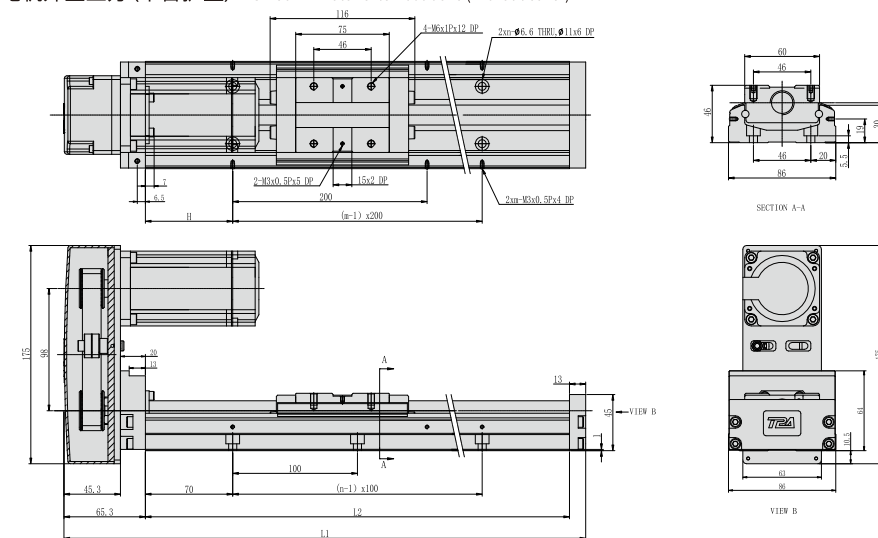


轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		H (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	418	210	100	70	3	2	5.6	6.4
440	518	310	200	20	4	3	6.8	7.6
540	618	410	300	70	5	3	7.9	8.7
640	718	510	400	20	6	4	9.1	9.9
740	818	610	500	70	7	4	10.3	11.1
840	918	710	600	20	8	5	11.5	12.3
940	1018	810	700	70	9	5	12.7	13.5

KSR 外形尺寸(不含护盖)
KSR Overall dimensions(without cover)

MU KSR-86-DZ 电机外置上方 (不含护盖) KSR-86-DZ Motor external above (without cover)

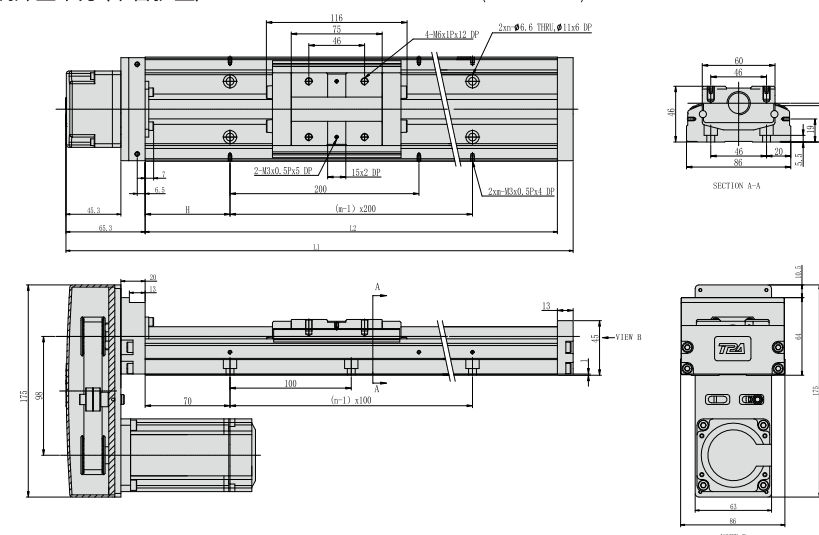
单位:Unit:mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		H(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	418	210	100	70	3	2	5.6	6.4
440	518	310	200	20	4	3	6.8	7.6
540	618	410	300	70	5	3	7.9	8.7
640	718	510	400	20	6	4	9.1	9.9
740	818	610	500	70	7	4	10.3	11.1
840	918	710	600	20	8	5	11.5	12.3
940	1018	810	700	70	9	5	12.7	13.5

MP KSR-86-DZ 电机外置下方(不含护盖) KSR-86-DZ Motor external under below (without cover)

单位:Unit:mm



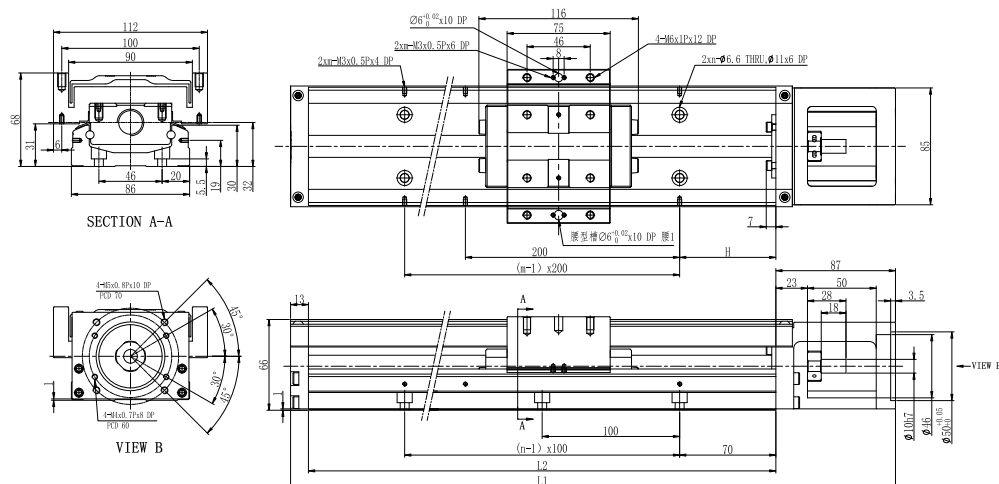
轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		H(mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	418	210	100	70	3	2	5.6	6.4
440	518	310	200	20	4	3	6.8	7.6
540	618	410	300	70	5	3	7.9	8.7
640	718	510	400	20	6	4	9.1	9.9
740	818	610	500	70	7	4	10.3	11.1
840	918	710	600	20	8	5	11.5	12.3
940	1018	810	700	70	9	5	12.7	13.5

■ KNR 外形尺寸(含护盖)

KNR Overall dimensions(Cover included)

M KNR-86 电机外置直连(含护盖) KNR-86 Motor external direct connection (Cover included)

单位:Unit:mm



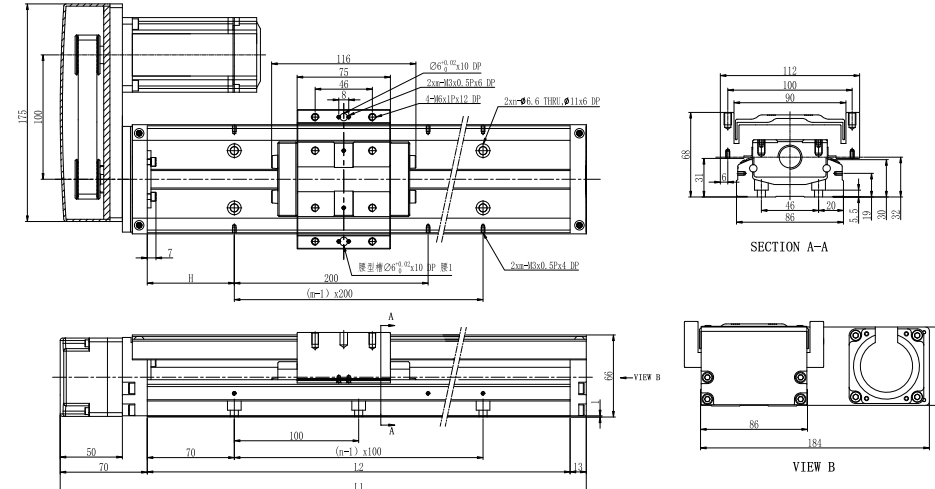
轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		H (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	440	210	100	70	3	2	6.5	7.3
440	540	310	200	20	4	3	7.8	8.6
540	640	410	300	70	5	3	9	9.8
640	740	510	400	20	6	4	10.3	11.1
740	840	610	500	70	7	4	11.6	12.4
840	940	710	600	20	8	5	13	13.8
940	1040	810	700	70	9	5	14.2	15

KNR 外形尺寸(含护盖)

KNR Overall dimensions(Cover included)

MR KNR-86 电机外置右侧(含护盖) KNR-86 Motor external right side (Cover included)

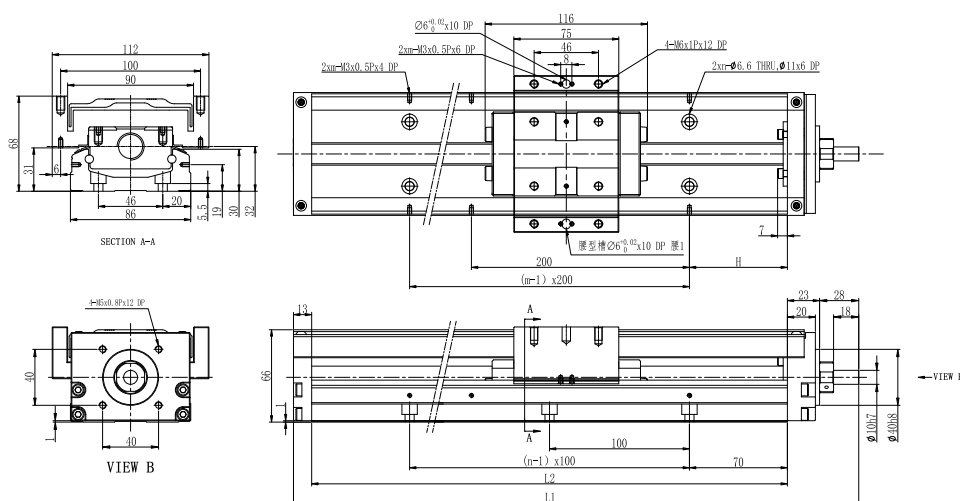
单位:Unit:mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		H(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	418	210	100	70	3	2	6.4	7.2
440	518	310	200	20	4	3	7.7	8.3
540	618	410	300	70	5	3	8.9	9.7
640	718	510	400	20	6	4	10	11.2
740	818	610	500	70	7	4	11.3	12.3
840	918	710	600	20	8	5	12.7	13.7
940	1018	810	700	70	9	5	14	14.9

H0 KNR-86-H0 (含护盖) KNR-86-H0 (including cover)

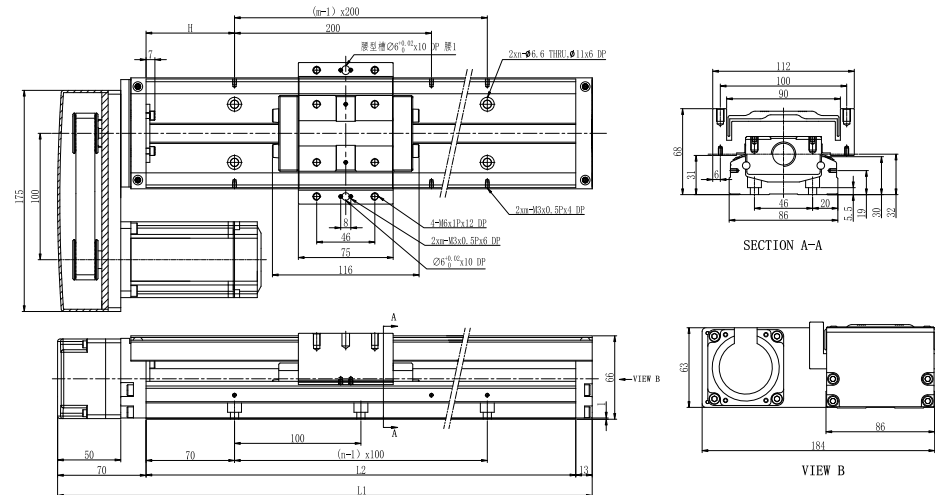
单位:Unit:mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		H(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	404	210	100	70	3	2	6.4	7.2
440	504	310	200	20	4	3	7.7	8.3
540	604	410	300	70	5	3	8.9	9.7
640	704	510	400	20	6	4	10	11.2
740	804	610	500	70	7	4	11.3	12.3
840	904	710	600	20	8	5	12.7	13.7
940	1004	810	700	70	9	5	14	14.9

ML KNR-86 电机外置左侧(含护盖) KNR-86 Motor external left side (Cover included)

单位:Unit:mm



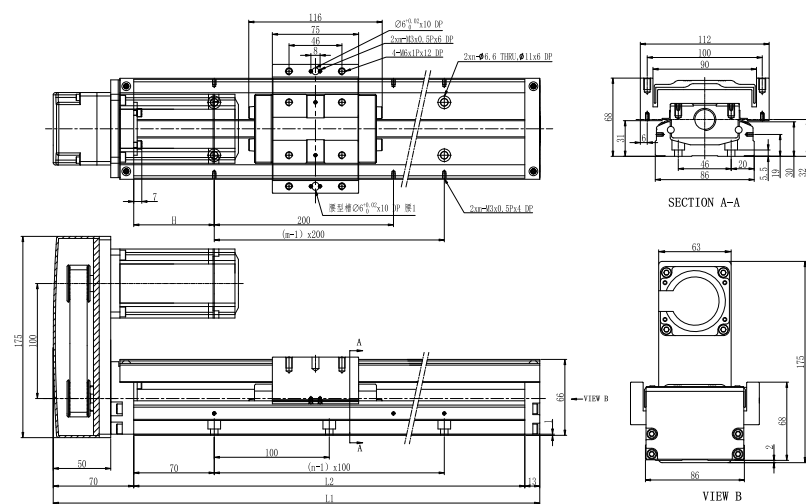
轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		H(mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	418	210	100	70	3	2	6.4	7.2
440	518	310	200	20	4	3	7.7	8.3
540	618	410	300	70	5	3	8.9	9.7
640	718	510	400	20	6	4	10	11.2
740	818	610	500	70	7	4	11.3	12.3
840	918	710	600	20	8	5	12.7	13.7
940	1018	810	700	70	9	5	14	14.9

■ KNR 外形尺寸(含护盖)

KNR Overall dimensions(Cover included)

MU KNR-86 电机外置上方(含护盖) KNR-86 Motor external above (Cover included)

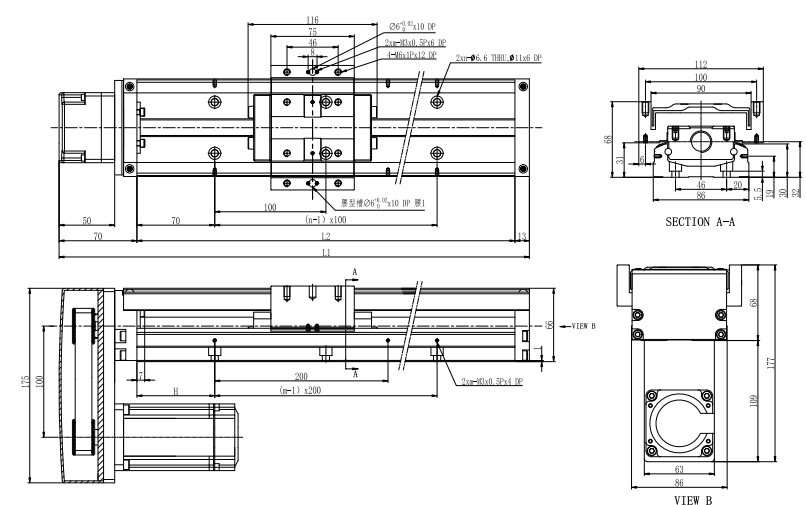
单位:Unit:mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		H (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	418	210	100	70	3	2	6.4	7.2
440	518	310	200	20	4	3	7.7	8.3
540	618	410	300	70	5	3	8.9	9.7
640	718	510	400	20	6	4	10	11.2
740	818	610	500	70	7	4	11.3	12.3
840	918	710	600	20	8	5	12.7	13.7
940	1018	810	700	70	9	5	14	14.9

MP KNR-86 电机外置下方(含护盖) KNR-86 Motor external under below (Cover included)

单位:Unit:mm



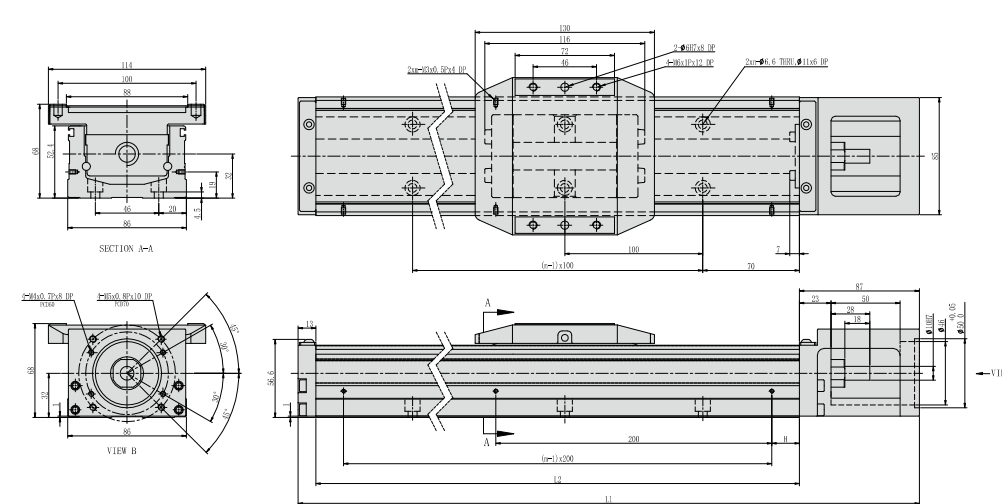
轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		H (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	418	210	100	70	3	2	6.4	7.2
440	518	310	200	20	4	3	7.7	8.3
540	618	410	300	70	5	3	8.9	9.7
640	718	510	400	20	6	4	10	11.2
740	818	610	500	70	7	4	11.3	12.3
840	918	710	600	20	8	5	12.7	13.7
940	1018	810	700	70	9	5	14	14.9

KCR 外形尺寸

KCR Overall dimensions

M KCR-86 电机外置直连 KCR-86 Motor external direct connection

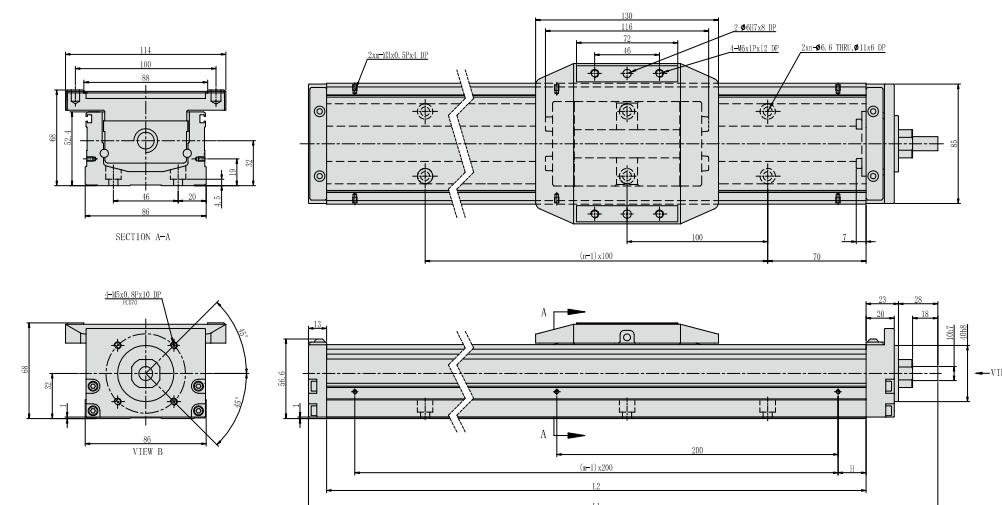
单位:Unit:mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		H(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	440	210	100	70	3	2	5.7	6.5
440	540	310	200	20	4	3	6.9	7.7
540	640	410	300	70	4	3	8	8.8
640	740	510	400	20	7	4	9.2	10
740	840	610	500	70	7	4	10.4	11.2
940	1040	810	700	70	9	5	11.6	12.4

H0 KCR-86-H0

单位:Unit:mm

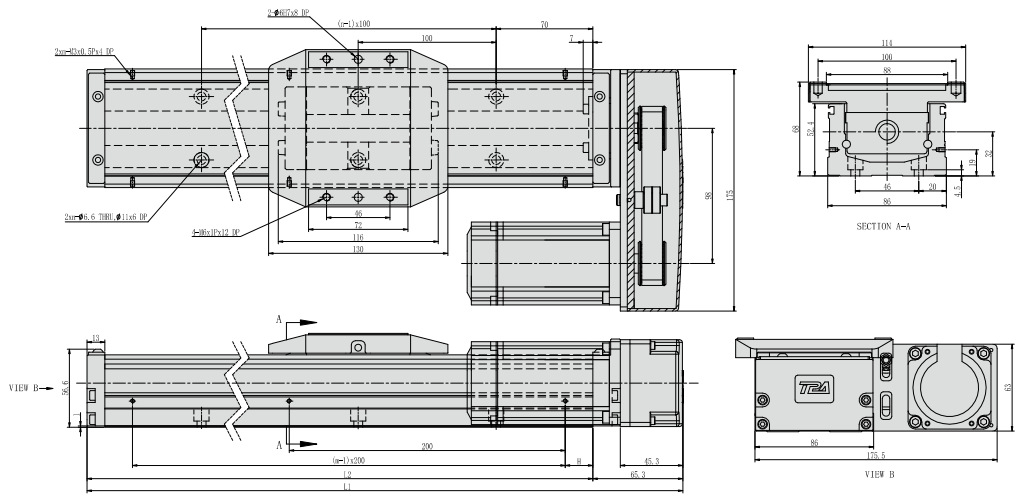


轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		H(mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	404	210	100	70	3	2	5.6	6.4
440	504	310	200	20	4	3	6.8	7.6
540	604	410	300	70	5	3	7.9	8.7
640	704	510	400	20	6	4	9.1	9.9
740	704	610	500	70	7	4	10.3	11.1
940	1004	810	700	70	9	5	11.5	12.3

KCR 外形尺寸
KCR Overall dimensions

MR KCR-86 电机外置右侧 KCR-86 Motor external right side

单位:Unit: mm

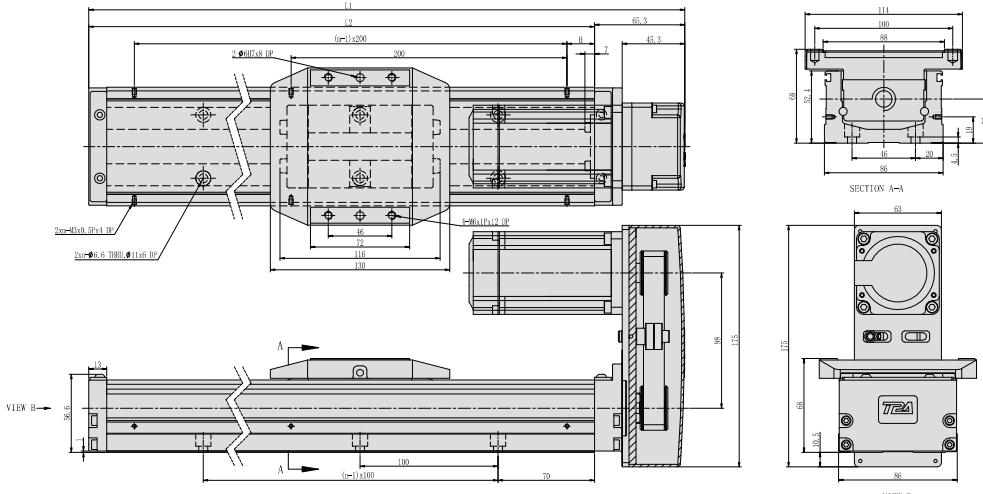


轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		H(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	418.3	210	100	70	3	2	5.6	6.4
440	518.3	310	200	20	4	3	6.8	7.6
540	618.3	410	300	70	5	3	7.9	8.7
640	718.3	510	400	20	6	4	9.1	9.9
740	818.3	610	500	70	7	4	10.3	11.1
940	1018.3	810	700	70	9	5	11.5	12.3

KCR 外形尺寸
KCR Overall dimensions

MU KCR-86 电机外置上方 KCR-86 Motor external above

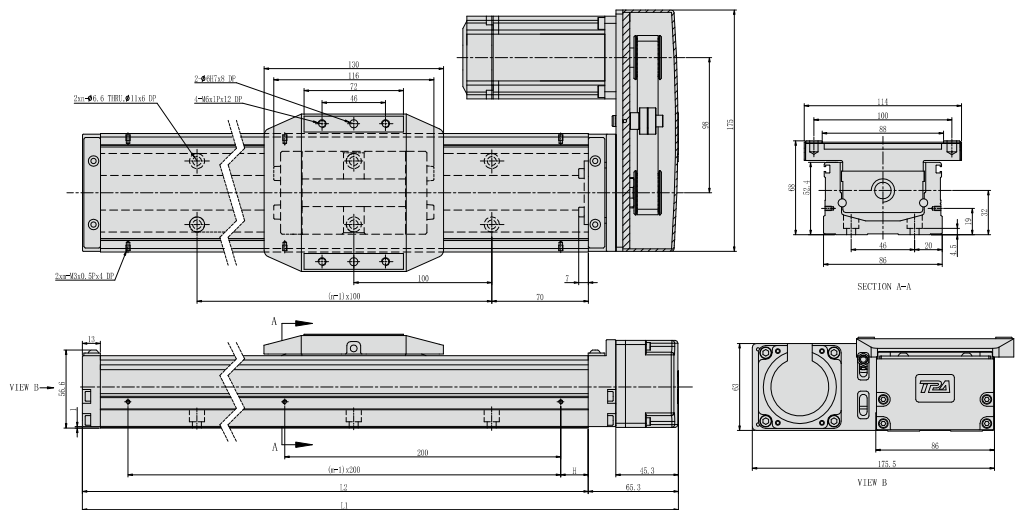
单位:Unit: mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		H(mm)	n	m	重量(kg) Weight	
		滑座 A1 slide carriage	滑座 A2 slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	418.3	210	100	70	3	2	5.6	6.4
440	518.3	310	200	20	4	3	6.8	7.6
540	618.3	410	300	70	5	3	7.9	8.7
640	718.3	510	400	20	6	4	9.1	9.9
740	818.3	610	500	70	7	4	10.3	11.1
940	1018.3	810	700	70	9	5	11.5	12.3

ML KCR-86 电机外置左侧 KCR-86 Motor external left side

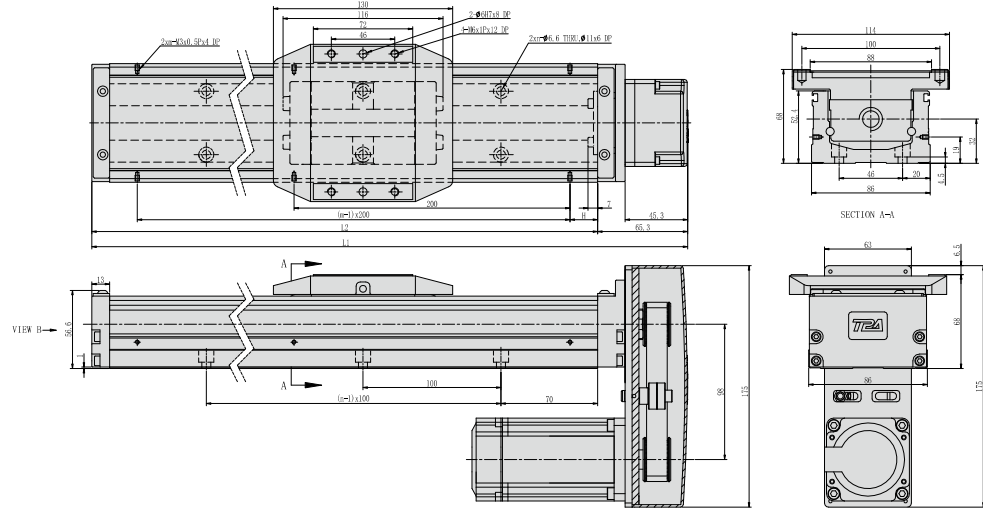
单位:Unit: mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		H(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	418.3	210	100	70	3	2	5.6	6.4
440	518.3	310	200	20	4	3	6.8	7.6
540	618.3	410	300	70	5	3	7.9	8.7
640	718.3	510	400	20	6	4	9.1	9.9
740	818.3	610	500	70	7	4	10.3	11.1
940	1018.3	810	700	70	9	5	11.5	12.3

MP KCR-86 电机外置下方 KCR-86 Motor external under below

单位:Unit: mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		H(mm)	n	m	重量(kg) Weight	
		滑座 A1 slide carriage	滑座 A2 slide carriage				滑座 A1 Slide carriage	滑座 A2 Slide carriage
340	418.3	210	100	70	3	2	5.6	6.4
440	518.3	310	200	20	4	3	6.8	7.6
540	618.3	410	300	70	5	3	7.9	8.7
640	718.3	510	400	20	6	4	9.1	9.9
740	818.3	610	500	70	7	4	10.3	11.1
940	1018.3	810	700	70	9	5	11.5	12.3

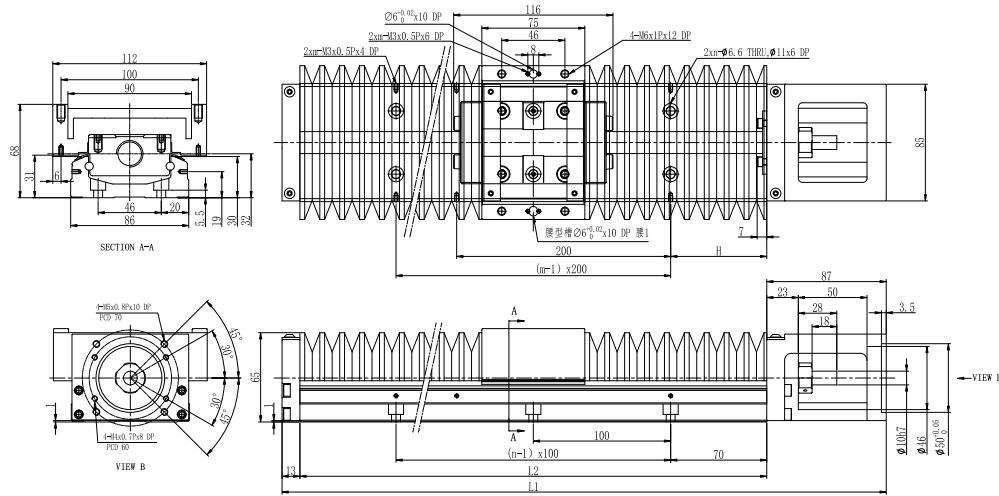


KFR 外形尺寸 (含伸缩护套)

KFR Overall dimensions (Guideway Cover)

M KFR-86 电机外置直连 (含伸缩护套) KFR-86 Motor external direct connection (Guideway Cover)

单位:Unit: mm



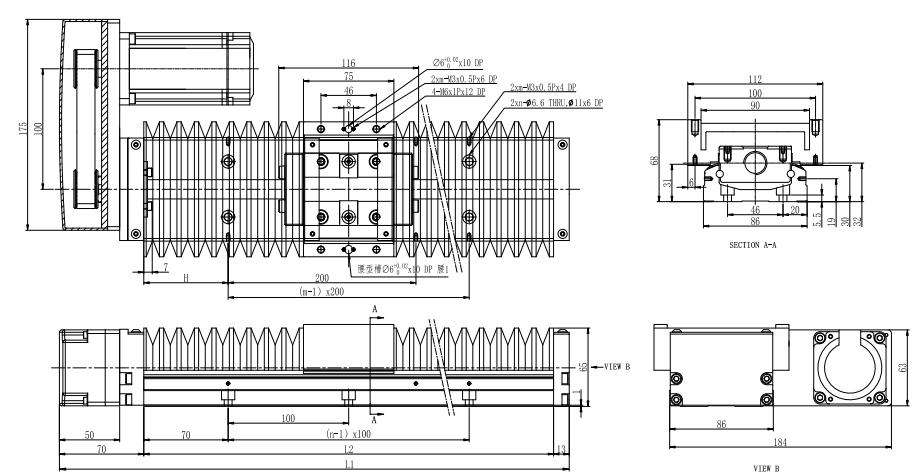
轨道长度 L2 Track length	全长(L1) Full length	行程(mm) Stroke	套伸量(mm)		H(mm)	n	m	重量 (kg) Weight
			最小	最大				
340	440	188	36	224	70	3	2	6.5
440	540	260	50	310	20	4	3	7.8
540	640	336	62	398	70	5	3	9
640	740	408	76	484	20	6	4	10.3
740	840	480	90	570	70	7	4	11.6
840	940	560	100	660	20	8	5	13
940	1040	640	110	750	70	9	5	14.2

KFR 外形尺寸 (含伸缩护套)

KFR Overall dimensions (Guideway Cover)

MR KFR-86 电机外置右侧 (含伸缩护套) KFR-86 Motor external right side (Guideway Cover)

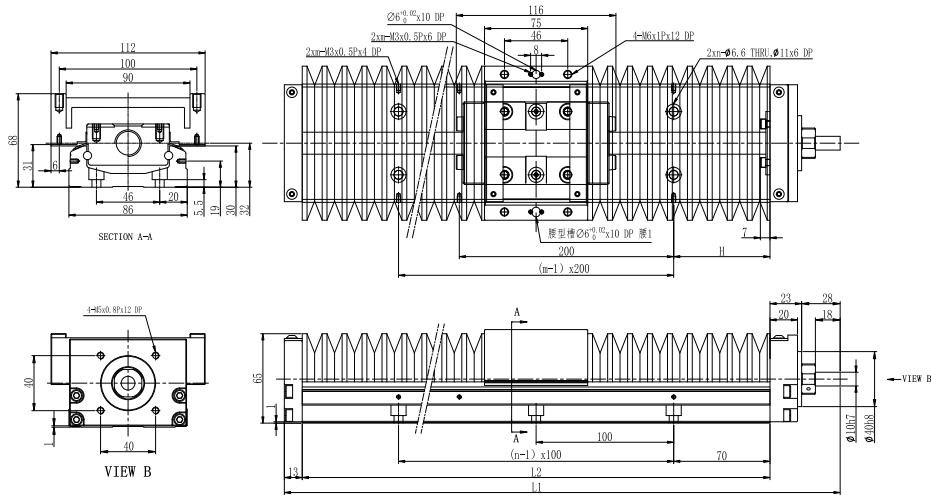
单位:Unit: mm



轨道长度 L2 Track length	全长(L1) Full length	行程(mm) Stroke	套伸量(mm)		H(mm)	n	m	重量 (kg) Weight
			最小	最大				
340	418	188	36	224	70	3	2	6.4
440	518	260	50	310	20	4	3	7.7
540	618	336	62	398	70	5	3	8.9
640	718	408	76	484	20	6	4	10
740	818	480	90	570	70	7	4	11.3
840	918	560	100	660	20	8	5	12.7
940	1018	640	110	750	70	9	5	14

H0 KFR-86-H0 (含伸缩护套) KFR-86-H0 (Guideway Cover)

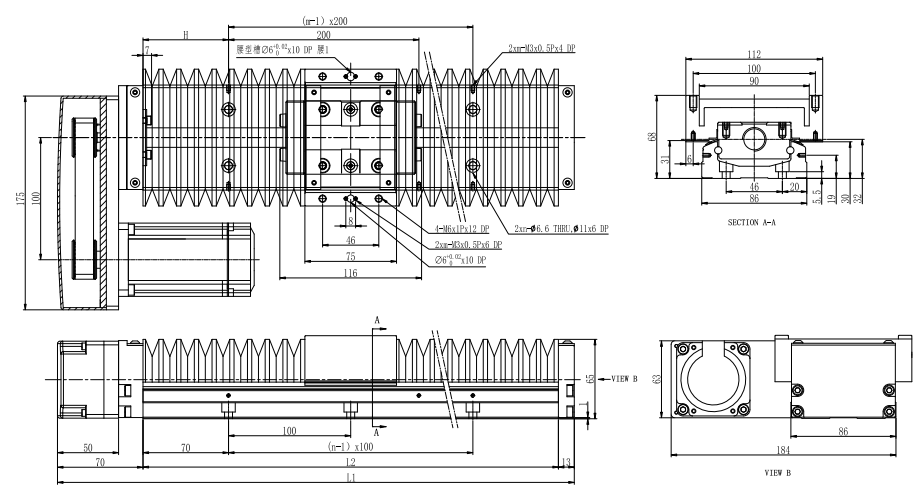
单位:Unit: mm



轨道长度 L2 Track length	全长(L1) Full length	行程(mm) Stroke	套伸量(mm)		H(mm)	n	m	重量 (kg) Weight
			最小	最大				
340	404	188	36	224	70	3	2	6.4
440	504	260	50	310	20	4	3	7.7
540	604	336	62	398	70	5	3	8.9
640	704	408	76	484	20	6	4	10
740	804	480	90	570	70	7	4	11.3
840	904	560	100	660	20	8	5	12.7
940	1004	640	110	750	70	9	5	14

ML KFR-86 电机外置左侧 (含伸缩护套) KFR-86 Motor external left side (Guideway Cover)

单位:Unit: mm

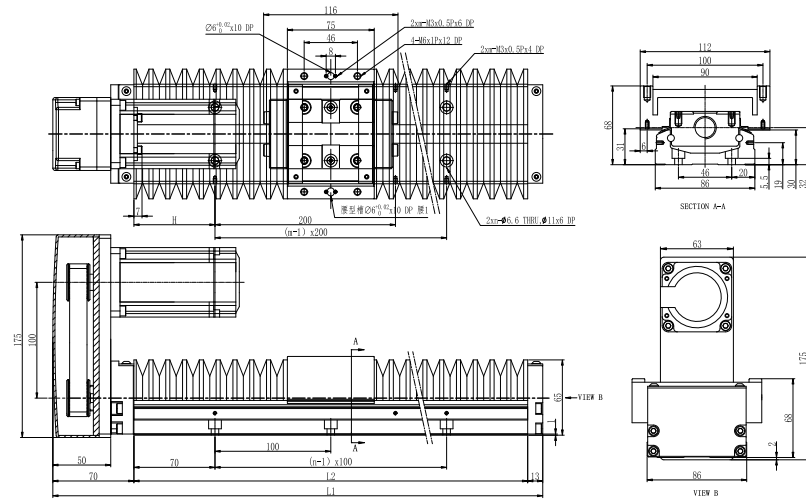


轨道长度 L2 Track length	全长(L1) Full length	行程(mm) Stroke	套伸量(mm)		H(mm)	n	m	重量 (kg) Weight
			最小	最大				
340	418	188	36	224	70	3	2	6.4
440	518	260	50	310	20	4	3	7.7
540	618	336	62	398	70	5	3	8.9
640	718	408	76	484	20	6	4	10
740	818	480	90	570	70	7	4	11.3
840	918	560	100	660	20	8	5	12.7
940	1018	640	110	750	70	9	5	14

KFR 外形尺寸 (含伸缩护套)
KFR Overall dimensions (Guideway Cover)

MU KFR-86 电机外置上方 (含伸缩护套) KFR-86 Motor external above (Guideway Cover)

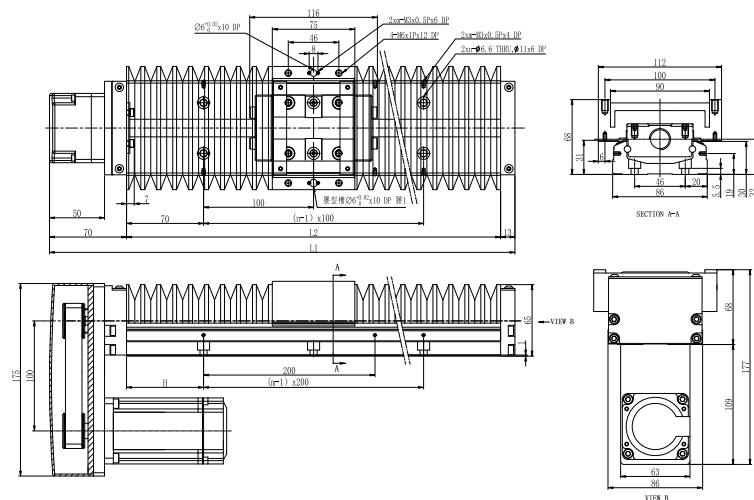
单位:Unit: mm



轨道长度 L2 Track length	全长(L1) Full length	行程(mm) Stroke	套伸量(mm)		H(mm)	n	m	重量 (kg) Weight
			最小	最大				
340	418	188	36	224	70	3	2	6.4
440	518	260	50	310	20	4	3	7.7
540	618	336	62	398	70	5	3	8.9
640	718	408	76	484	20	6	4	10
740	818	480	90	570	70	7	4	11.3
840	918	560	100	660	20	8	5	12.7
940	1018	640	110	750	70	9	5	14

MP KFR-86 电机外置下方 (含伸缩护套) KFR-86 Motor external under below (Guideway Cover)

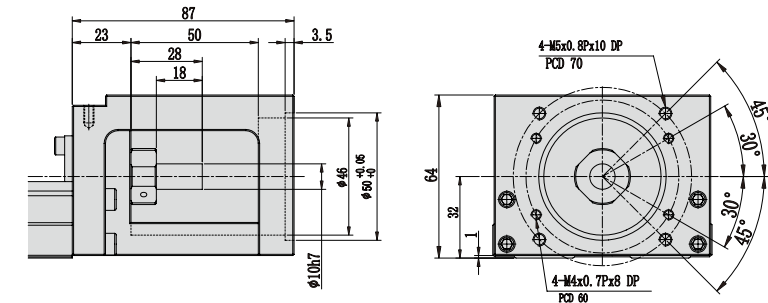
单位:Unit: mm



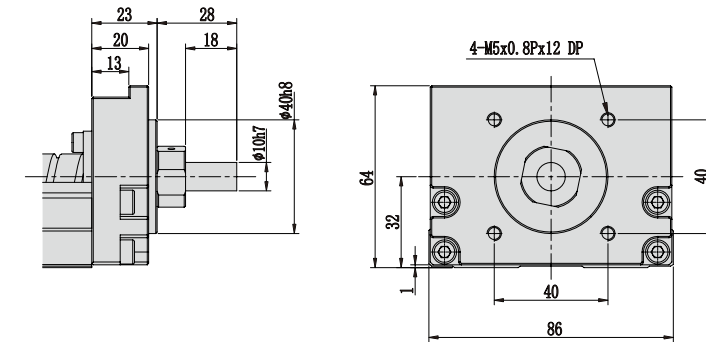
轨道长度 L2 Track length	全长(L1) Full length	行程(mm) Stroke	套伸量(mm)		H(mm)	n	m	重量 (kg) Weight
			最小	最大				
340	418	188	36	224	70	3	2	6.4
440	518	260	50	310	20	4	3	7.7
540	618	336	62	398	70	5	3	8.9
640	718	408	76	484	20	6	4	10
740	818	480	90	570	70	7	4	11.3
840	918	560	100	660	20	8	5	12.7
940	1018	640	110	750	70	9	5	14

电机座与电机连接法兰
Motor seat and motor connecting flange

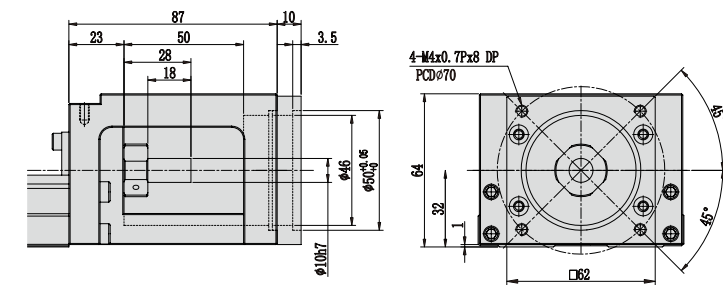
86 电机座F0(台达/安川/汇川/三菱/富士 200W/400W) Motor seat F0 (Delta/Yaskawa/Inovance/Mitsubishi/Fuji 200W/400W)



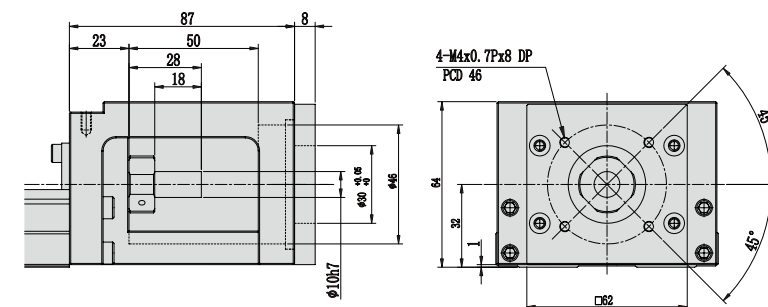
电机座H0 Motor seat H0



86 电机连接法兰F1(松下 200W/400W) Connecting flange F1 of motor (Panasonic 200W/400W)



电机连接法兰F2(台达/安川/汇川/三菱/富士 100W) Connecting flange F2 of motor (Delta/Yaskawa/Inovance/Mitsubishi/Fuji 100W)





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.

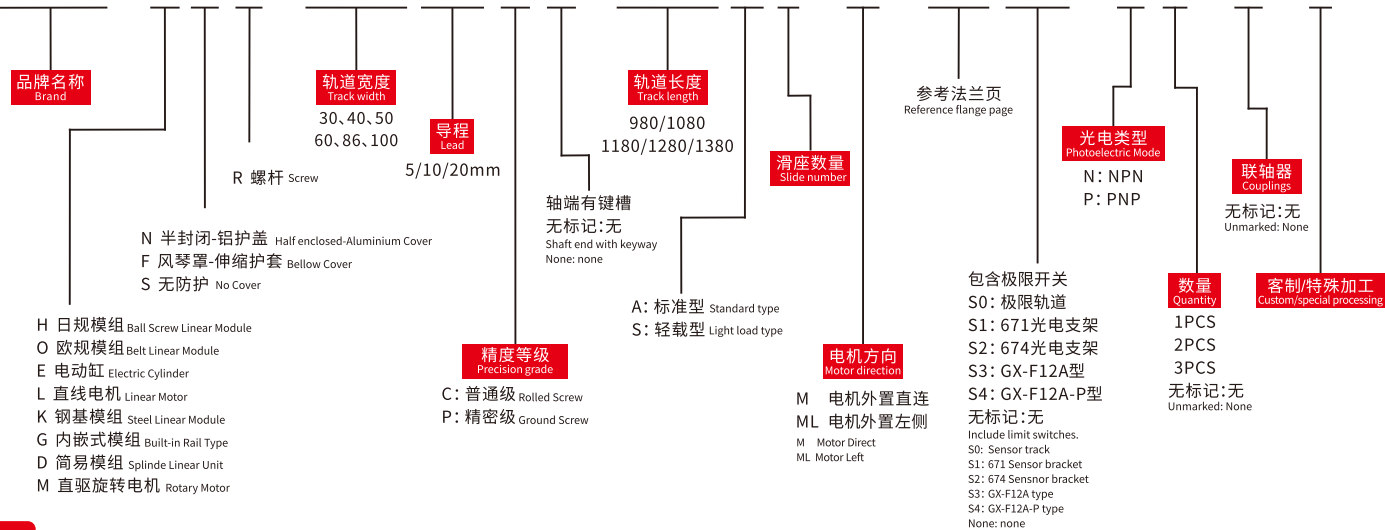
最大行程
Max Stroke 1128mm

最高速度
Max Speed 1000mm/sec

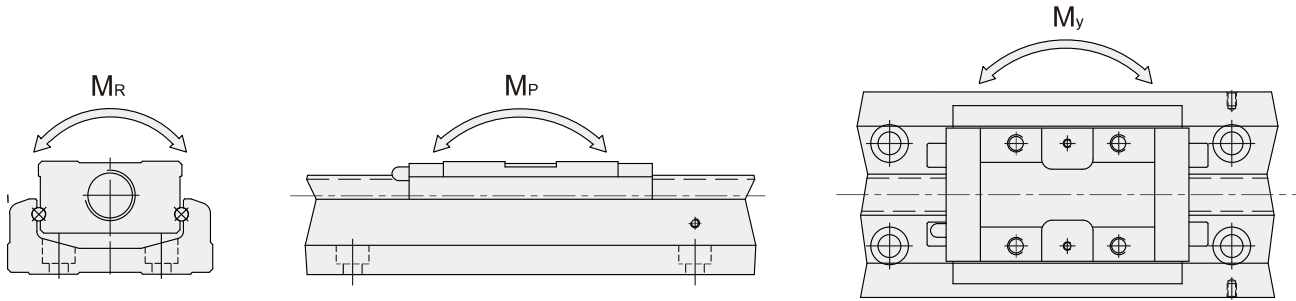
滚珠螺杆
Ball Screw $\varnothing 20$ mm

型号表达方式 Ordering method

TPA-KSR-10020CK-980A1-M-F0S2-N3-D-F



负载规格 Load specification



技术参数 Technical parameter

型 号 Model		滚 珠 螺 杆 Ballscrew		线 性 滑 轨 Linear slider rail															
		公称外径 (mm)	导程 (mm)	基本动态额定负荷 (N)	基本静态额定负荷 (N)	基本动态额定负荷 (N)		基本静态额定负荷 (N)		容 许 静 力 矩 Allowable static moment									
						基本动态额定负荷 (N)		基本静态额定负荷 (N)		俯仰 M _p (N-m)				偏扭 M _y (N-m)				滚动 M _x (N-m)	
						滑座 A Slide carriage	滑座 S Slide carriage	滑座 A Slide carriage	滑座 S Slide carriage	滑座 A1 Slide carriage	滑座 A2 Slide carriage	滑座 S1 Slide carriage	滑座 S2 Slide carriage	滑座 A1 Slide carriage	滑座 A2 Slide carriage	滑座 S1 Slide carriage	滑座 S2 Slide carriage	滑座 A1 Slide carriage	滑座 A2 Slide carriage
KSR 10020	精密级 Precise grade	20	20	7046	12544	39200	-	63406	-	960	4763	-	-	960	4763	-	-	2205	4410
	一般级 General grade			4782	9163														

精度等级 Precision grade

型 号 Model	轨道长度 Track length	定位重现性 Positioning reproducibility		定位精度 positioning accuracy		行走平行度 Walking parallelism		最大启动扭力: (N-cm) Maximum starting torque	
		精密级 Precise grade	一般级 General grade	精密级 Precise grade	一般级 General grade	精密级 Precise grade	一般级 General grade	精密级 Precise grade	一般级 General grade
KSR 100	980	±0.005	±0.02	0.035	-	0.025	-	17	12
	1080								
	1180	±0.005	±0.02	0.040	-	0.03	-	20	12
	1280			0.045	-	0.035	-	23	15
	1380	±0.005	±0.02	0.05		0.04		25	

最大速度 Maximum speed

型 号 Model	滚珠螺杆导程 (mm) Ballscrew lead	轨道长度 L2 (mm) Track length	速 度 (mm/sec) Speed	
			精密级 Precise grade	一般级 General grade
KSR 100	20	980	1120	800
		1080	980	800
		1180	750	750
		1280	630	630
		1380	530	530

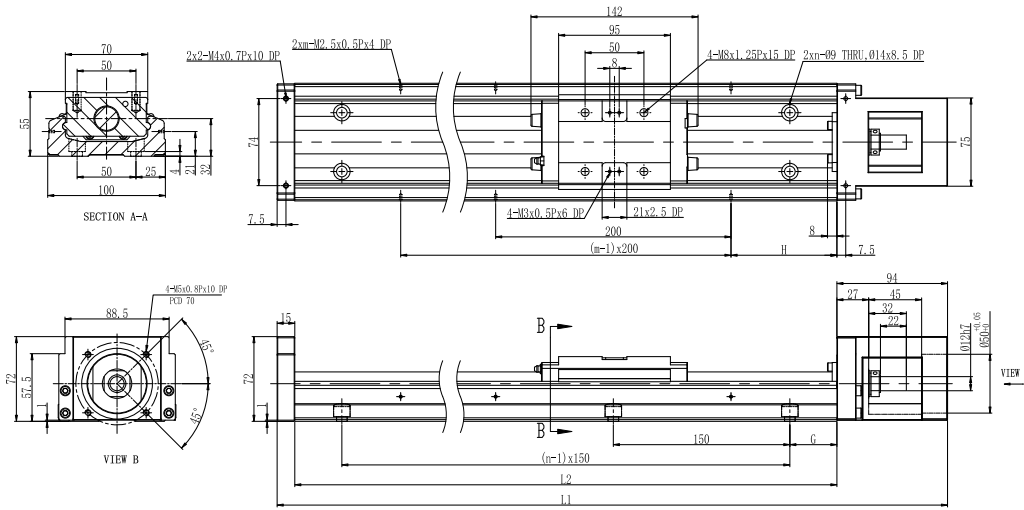


KSR 外形尺寸 (不含护盖)/KNR 外形尺寸 (含护盖)

KSR Overall dimensions (without cover)/KNR Overall dimensions (cover included)

M KSR-100 电机外置直连 (不含护盖) KSR-100 Motor external direct connection (without cover)

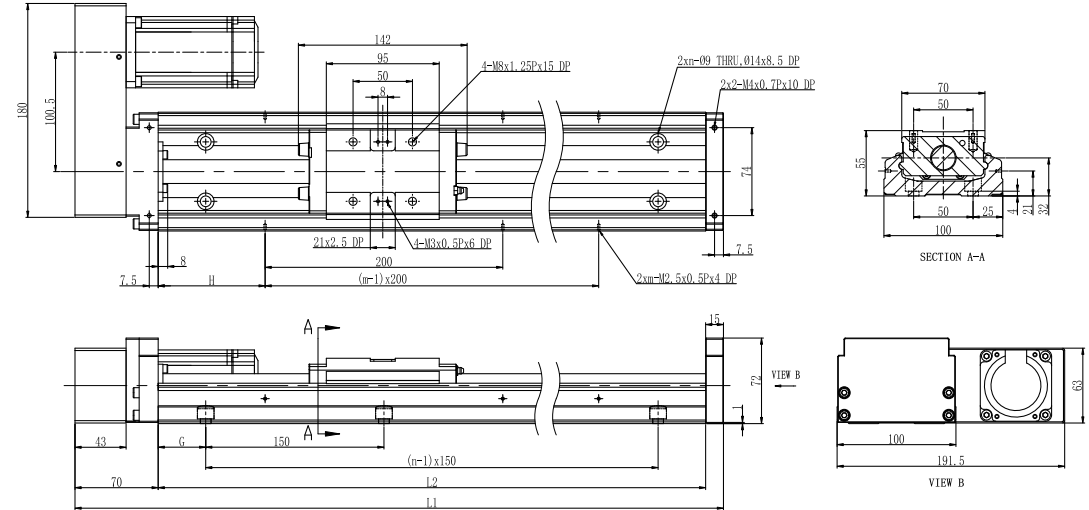
单位: Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	H (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
980	1089	828	700	40	90	7	5	18.6	20.3
1080	1189	928	800	15	40	8	6	20.3	22
1180	1289	1028	900	65	90	8	6	22	23.7
1280	1389	1128	1000	40	40	9	7	23.6	25.3
1380	1489	1228	1100	15	90	10	7	25.3	27

MR KSR-100 电机外置右侧 (不含护盖) KSR-100 Motor external right side (without cover)

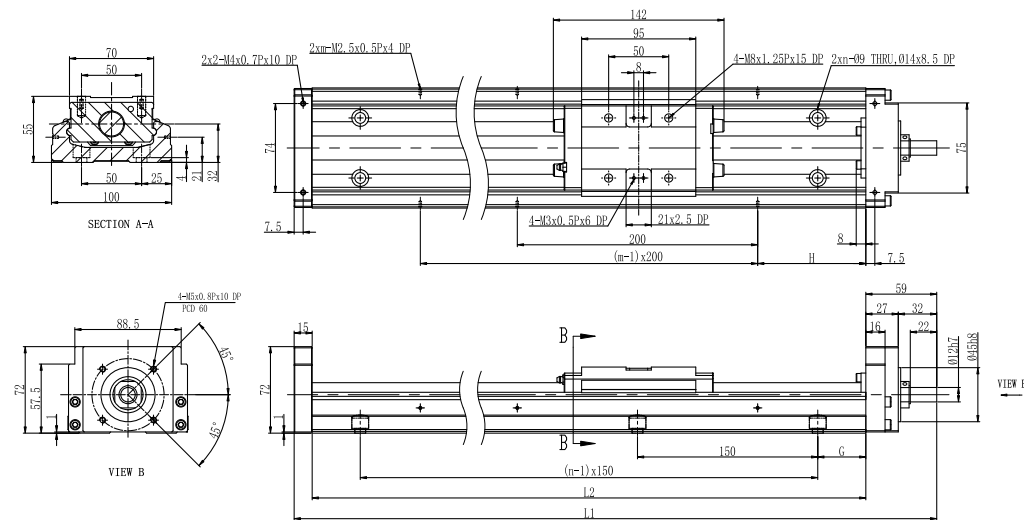
单位: Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	H (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
980	1065	828	700	40	90	7	5	18.4	20.1
1080	1165	928	800	15	40	8	6	20.1	21.8
1180	1265	1028	900	65	90	8	6	21.8	23.5
1280	1365	1128	1000	40	40	9	7	23.4	25.1
1380	1465	1228	1100	15	90	10	7	25.1	26.8

H0 KSR-100-H0 (不含护盖) KSR-100-H0 (without cover)

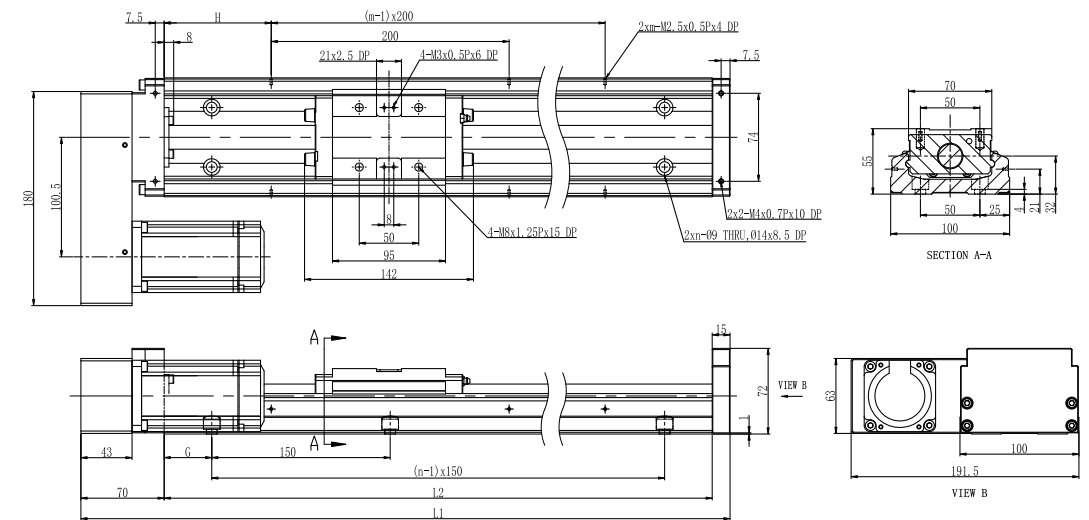
单位: Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	H (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
980	1054	828	700	40	90	7	5	18.4	20.1
1080	1154	928	800	15	40	8	6	20.1	21.8
1180	1254	1028	900	65	90	8	6	21.8	23.5
1280	1354	1128	1000	40	40	9	7	23.4	25.1
1380	1454	1228	1100	15	90	10	7	25.1	26.8

ML KSR-100 电机外置左侧 (不含护盖) KSR-100 Motor external left side (without cover)

单位: Unit: mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	H (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
980	1065	828	700	40	90	7	5	18.4	20.1
1080	1165	928	800	15	40	8	6	20.1	21.8
1180	1265	1028	900	65	90	8	6	21.8	23.5
1280	1365	1128	1000	40	40	9	7	23.4	25.1
1380	1465	1228	1100	15	90	10	7	25.1	26.8



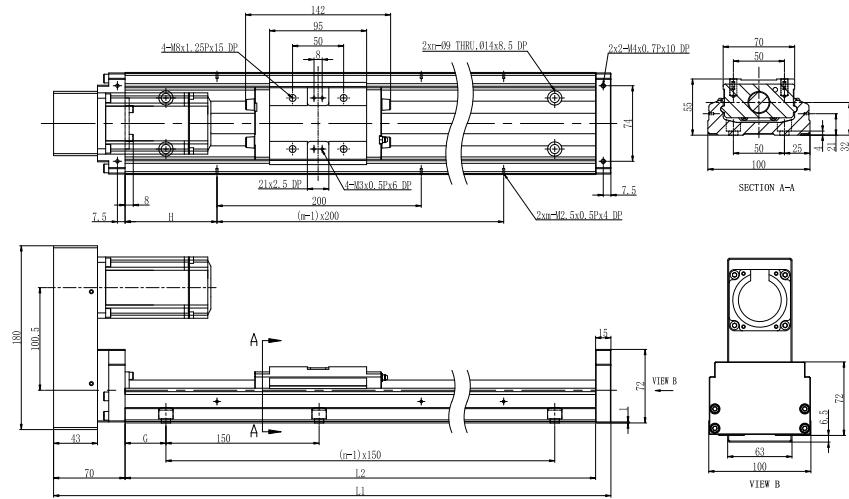
KSR 外形尺寸 (不含护盖)/KNR 外形尺寸 (含护盖)

KSR Overall dimensions(without cover)/KNR Overall dimensions(cover included)

MU

KSR-100 电机外置上方 (不含护盖) KSR-100 Motor external above (without cover)

单位:Unit: mm

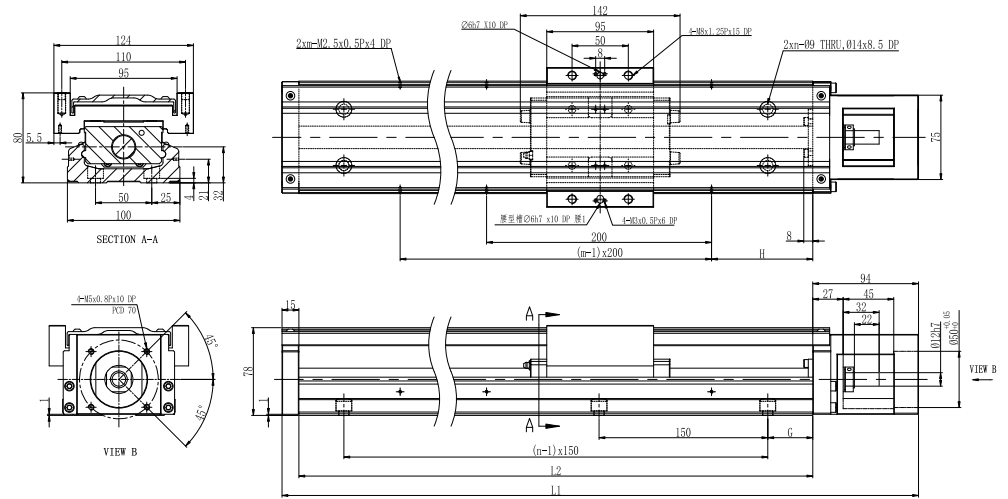


轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	H(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
980	1065	828	700	40	90	7	5	18.4	20.1
1080	1165	928	800	15	40	8	6	20.1	21.8
1180	1265	1028	900	65	90	8	6	21.8	23.5
1280	1365	1128	1000	40	40	9	7	23.4	25.1
1380	1465	1228	1100	15	90	10	7	25.1	26.8

M

KNR-100 电机外置直连 (含护盖) KNR-100 Motor external direct connection (Cover included)

单位:Unit: mm

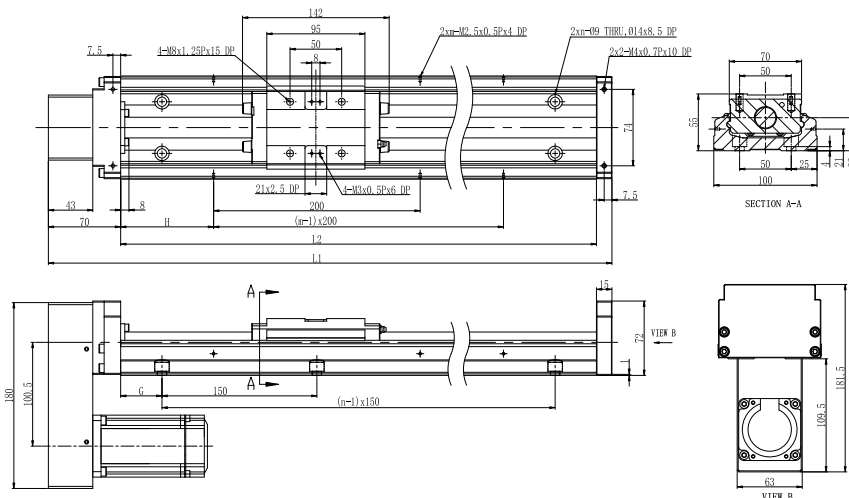


轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	H(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
980	1089	828	700	40	90	7	5	20.4	22.1
1080	1189	928	800	15	40	8	6	22.2	23.9
1180	1289	1028	900	65	90	8	6	24	25.7
1280	1389	1128	1000	40	40	9	7	25.7	27.4
1380	1489	1228	1100	15	90	10	7	27.5	29.2

MP

KSR-100 电机外置下方 (不含护盖) KSR-100 Motor external under below (without cover)

单位:Unit: mm

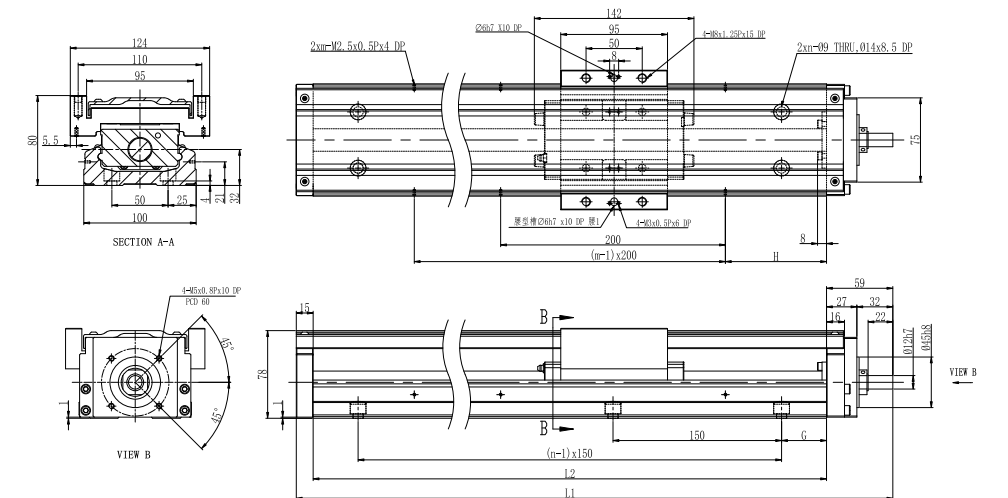


轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	H(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
980	1065	828	700	40	90	7	5	18.4	20.1
1080	1165	928	800	15	40	8	6	20.1	21.8
1180	1265	1028	900	65	90	8	6	21.8	23.5
1280	1365	1128	1000	40	40	9	7	23.4	25.1
1380	1465	1228	1100	15	90	10	7	25.1	26.8

H0

KNR-100-H0 (含护盖) KNR-100-H0 (Cover included)

单位:Unit: mm



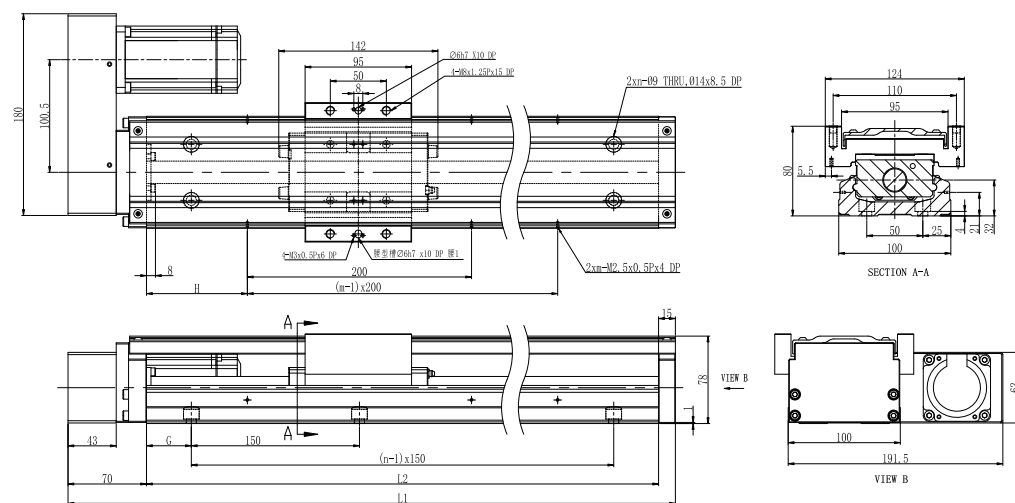
轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	H(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
980	1054	828	700	40	90	7	5	20.2	21.9
1080	1154	928	800	15	40	8	6	22	23.7
1180	1254	1028	900	65	90	8	6	23.8	25.5
1280	1354	1128	1000	40	40	9	7	25.5	27.2
1380	1454	1228	1100	15	90	10	7	27.3	29

KSR 外形尺寸(不含护盖)/KNR 外形尺寸(含护盖)

KSR Overall dimensions(without cover)/KNR Overall dimensions(cover included)

MR KNR-100 电机外置右侧(含护盖) KNR-100 Motor external right side (Cover included)

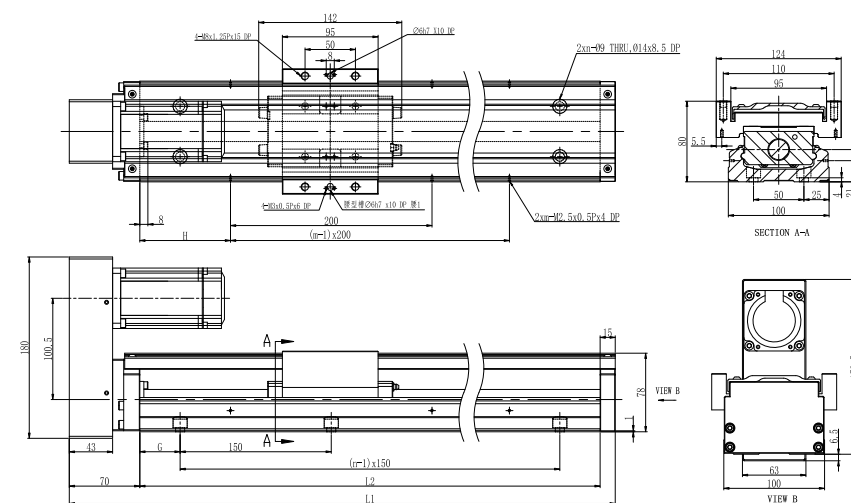
单位:Unit:mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	H(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
980	1065	828	700	40	90	7	5	20.2	21.9
1080	1165	928	800	15	40	8	6	22	23.7
1180	1265	1028	900	65	90	8	6	23.8	25.5
1280	1365	1128	1000	40	40	9	7	25.5	27.2
1380	1465	1228	1100	15	90	10	7	27.3	29

MU KNR-100 电机外置上方(含护盖) KNR-100 Motor external above(Cover included)

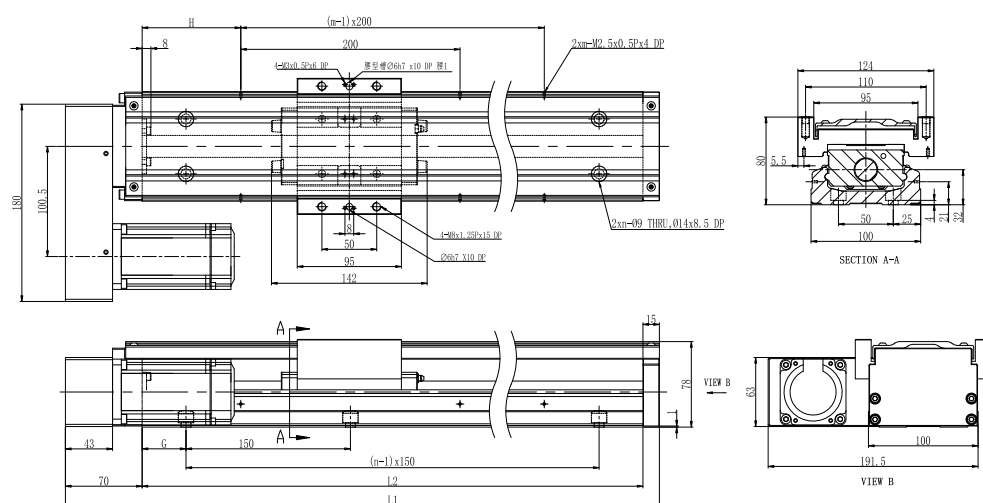
单位:Unit:mm



轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	H (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
980	1065	828	700	40	90	7	5	20.2	21.9
1080	1165	928	800	15	40	8	6	22	23.7
1180	1265	1028	900	65	90	8	6	23.8	25.5
1280	1365	1128	1000	40	40	9	7	25.5	27.2
1380	1465	1228	1100	15	90	10	7	27.3	29

ML KNR-100 电机外置左侧(含护盖) KNR-100 Motor external left side(Cover included)

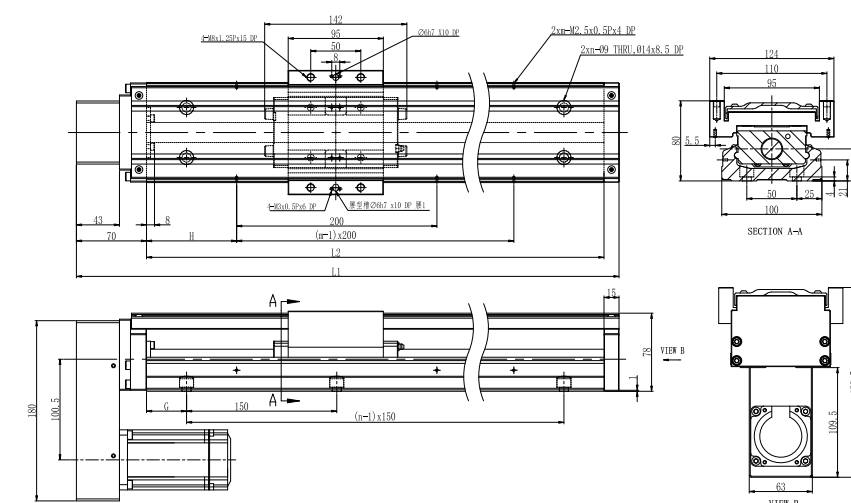
单位:Unit:mm



轨道长度 L2 Track length	全长(L1) Full length	最大行程(mm) Maximum travel		G(mm)	H(mm)	n	m	重量(kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
980	1065	828	700	40	90	7	5	20.2	21.9
1080	1165	928	800	15	40	8	6	22	23.7
1180	1265	1028	900	65	90	8	6	23.8	25.5
1280	1365	1128	1000	40	40	9	7	25.5	27.2
1380	1465	1228	1100	15	90	10	7	27.3	29

MP KNR-100 电机外置下方(含护盖) KNR-100 Motor external under below (Cover included)

单位:Unit: mm

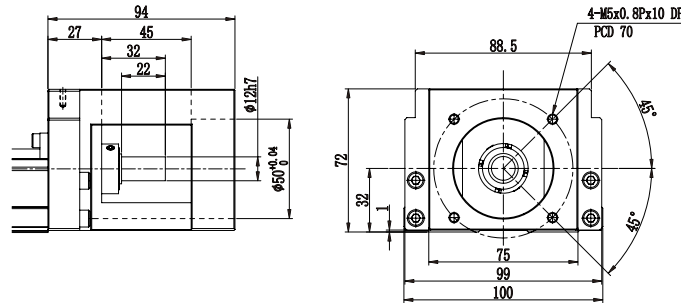


轨道长度 L2 Track length	全长 (L1) Full length	最大行程 (mm) Maximum travel		G (mm)	H (mm)	n	m	重量 (kg) Weight	
		滑座 A1 Slide carriage	滑座 A2 Slide carriage					滑座 A1 Slide carriage	滑座 A2 Slide carriage
980	1065	828	700	40	90	7	5	20.2	21.9
1080	1165	928	800	15	40	8	6	22	23.7
1180	1265	1028	900	65	90	8	6	23.8	25.5
1280	1365	1128	1000	40	40	9	7	25.5	27.2
1380	1465	1228	1100	15	90	10	7	27.3	29

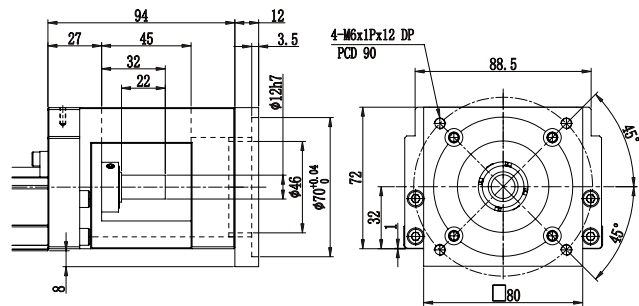


电机座与电机连接法兰 Motor seat and motor connecting flange

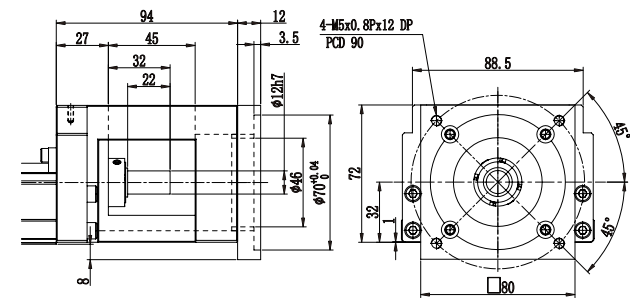
100 电机座F0(台达/安川/汇川/三菱/富士 200W/400W) Motor seat F0 (Delta/Yaskawa/Inovance/Mitsubishi/Fuji 200W/400W)



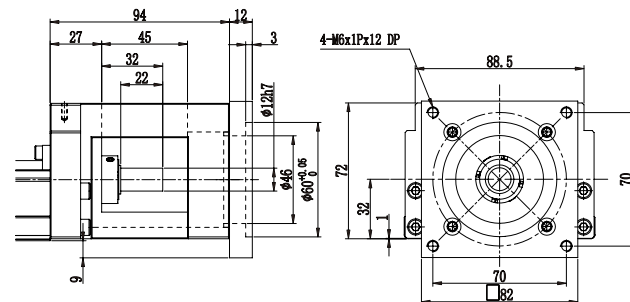
电机座F1(台达/安川/汇川/三菱/富士 750W) Motor seat F1 (Delta/Yaskawa/Inovance/Mitsubishi/Fuji 750W)



100 电机座F2(松下 750W) Motor seat F2 (Panasonic 750W)

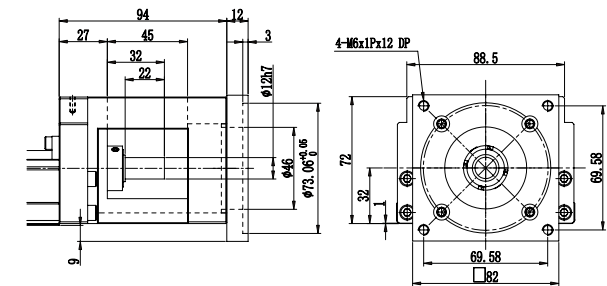


电机座F3 Motor seat F3

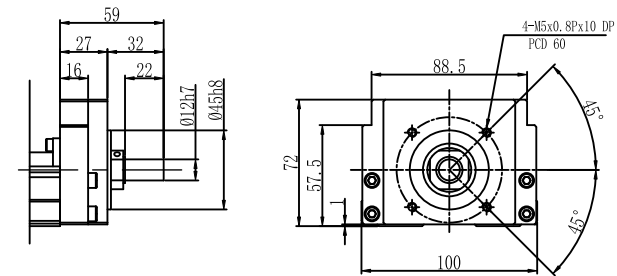


电机座与电机连接法兰 Motor seat and motor connecting flange

100 电机座F4(86步进) Motor seat F4(86 Stepper)



电机座H0 Motor seat H0



KSR

KNR-E

参考资料
Reference
data



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

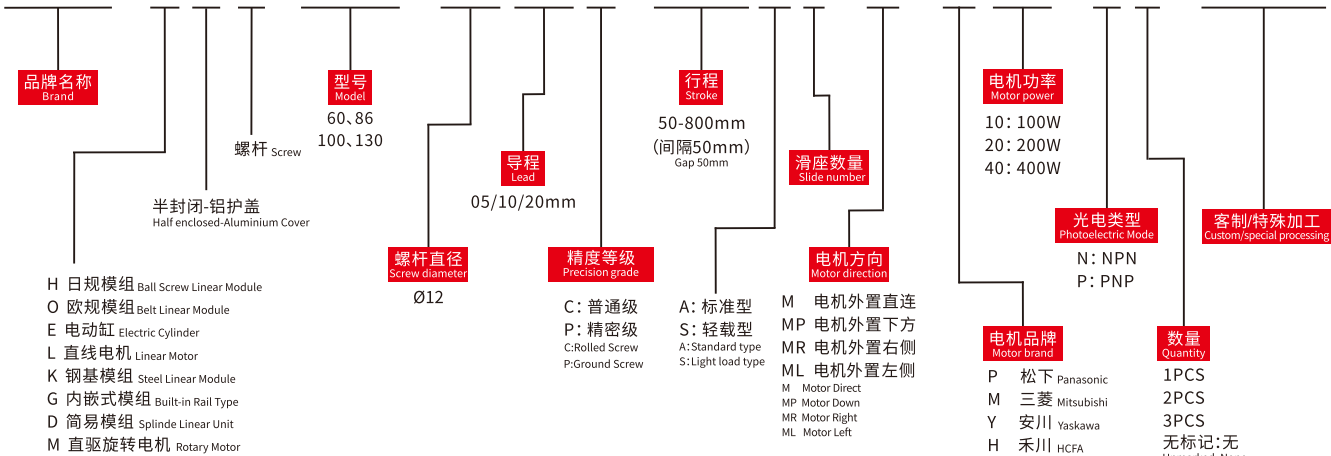
最高速度
Max Speed 1000mm/s

马达容量
Motor Output 100W

滚珠螺杆
Ball Screw $\varnothing 12$ mm

型号表达方式 Ordering method

TPA-KNR-60E-1210C-L50A1-M-M10-N3-F001



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)	39	22
		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 $\varnothing$ (mm)	C7 $\varnothing 12$		
	联轴器 (mm) Coupling (mm)	8X8		
	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.

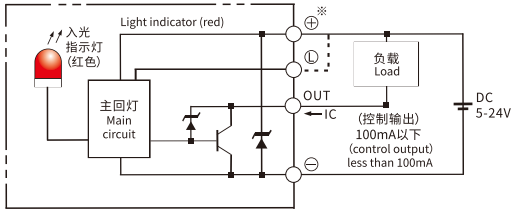
容许负载力矩表 N.m Allowable overhang

(单位Unit:mm)					(单位Unit:mm)					(单位Unit:mm)				
水平安装 Horizontal installation					侧面安装 Side mounting					垂直安装 Vertical installation				
导程 5 Lead	13kg	845	96	130	导程 5 Lead	13kg	130	96	845	导程 5 Lead	7kg	174	174	
	26kg	570	42	58		26kg	58	42	570		9.5kg	130	130	
	39kg	350	25	32		39kg	32	25	350		12kg	108	108	
导程 10 Lead	6kg	720	174	220	导程 10 Lead	6kg	216	174	720	导程 10 Lead	1.5kg	1280	1280	
	12kg	444	84	102		12kg	102	84	444		5kg	416	416	
	18kg	300	50	62		18kg	62	50	300		8kg	248	248	
导程 20 Lead	5kg	320	120	130	导程 20 Lead	5kg	130	120	320	导程 20 Lead	1.5kg	960	960	
	8kg	220	70	80		8kg	75	70	220		3kg	480	480	
	10kg	175	55	60		10kg	60	55	175		4kg	400	400	

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

感应器连接图<原点及端点> Sensor layout



KSR

KNR-E

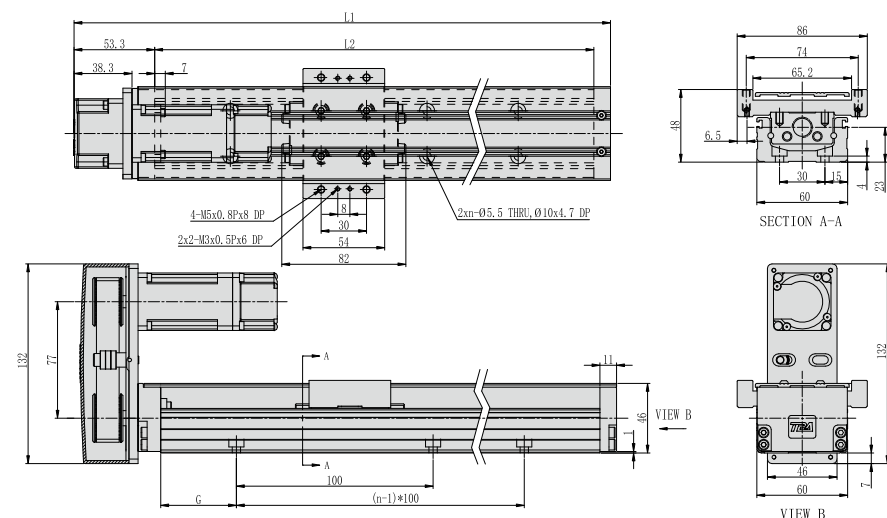
参考资料
Reference data



KNR 外形尺寸 (含护盖) KNR Overall dimensions (Cover included)

MU KNR-60E 电机外置上方 (含护盖) KNR-60E Motor external above (Cover included)

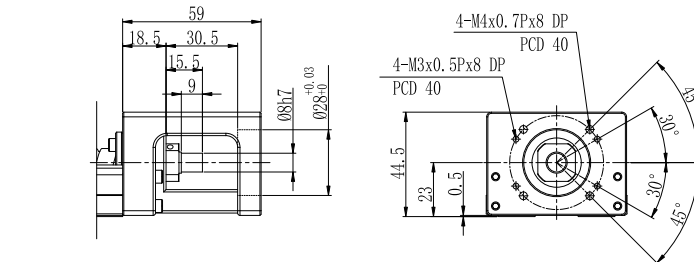
单位:Unit: mm



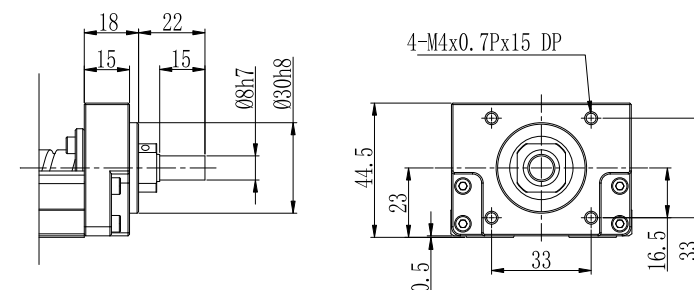
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L2	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900
L1	214	264	314	364	414	464	514	564	614	664	714	764	814	864	914	964
G	25	50	25	50	25	50	25	50	25	50	25	50	25	50	25	50
n	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
KG	1	1.4	1.7	2	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4	4.7	5	5.3	5.6

电机座与电机连接法兰 Motor seat and motor connecting flange

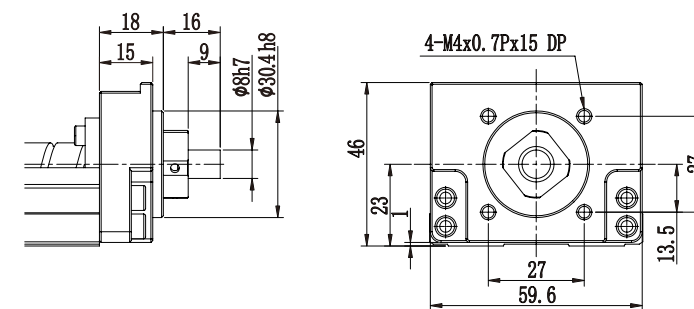
60 电机座F0 Motor seat F0



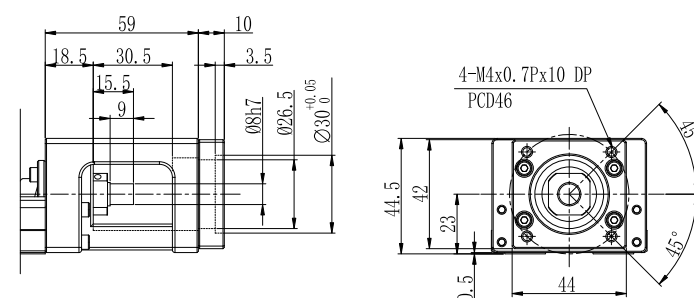
电机座H0 Motor seat H0



60 电机座H1 Motor seat H1

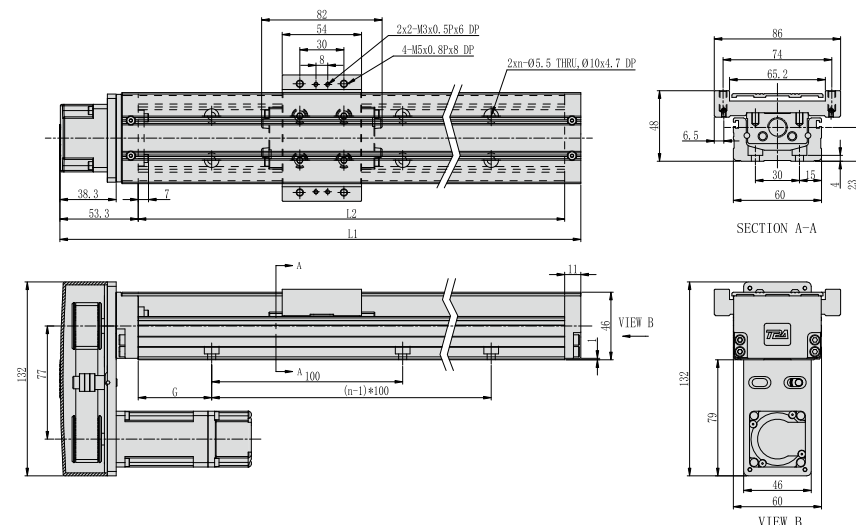


电机连接法兰F1 (台达/安川/汇川/三菱/富士 100W) Connecting flange F1 of motor (Delta/Yaskawa/Inovance/Mitsubishi/Fuji 100W)



MP KNR-60E 电机外置下方 (含护盖) KNR-60E Motor external under below (Cover included)

单位:Unit: mm

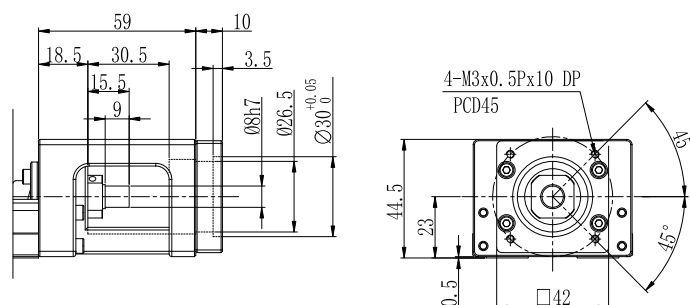


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L2	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900
L1	214	264	314	364	414	464	514	564	614	664	714	764	814	864	914	964
G	25	50	25	50	25	50	25	50	25	50	25	50	25	50	25	50
n	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
KG	1	1.4	1.7	2	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4	4.7	5	5.3	5.6

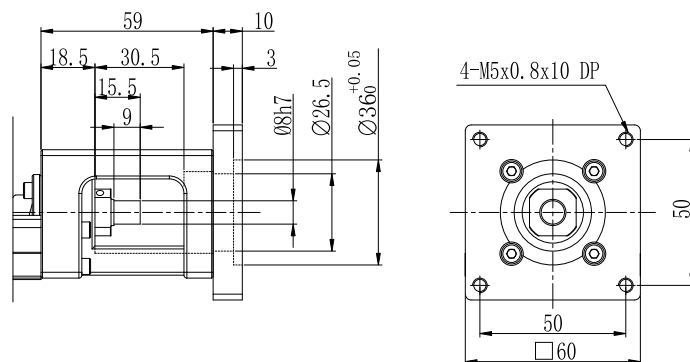


电机座与电机连接法兰 Motor seat and motor connecting flange

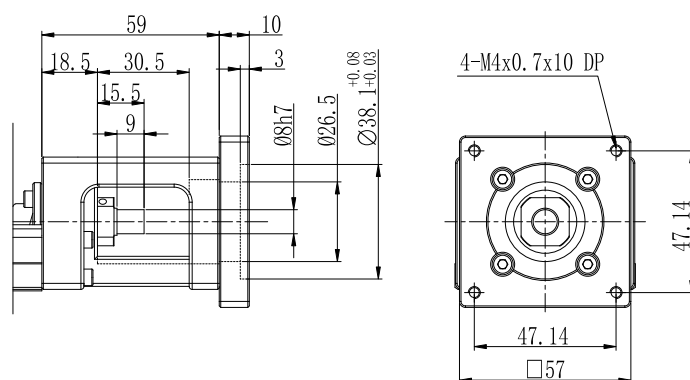
60 电机连接法兰F2(松下 50W/100W) Connecting flange F2 of motor (Panasonic 50W/100W)



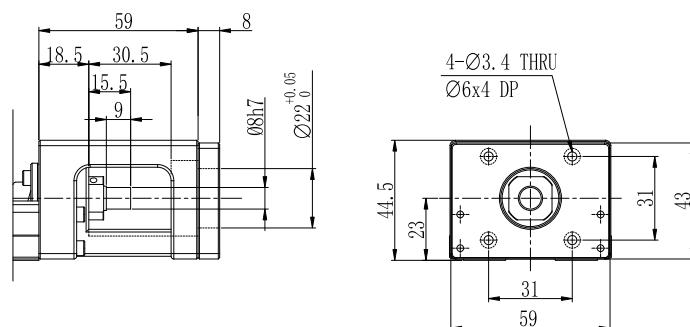
电机连接法兰F3(60步进) Connecting flange F3 of motor (60 Stepper)



60 电机连接法兰F4(57步进) Connecting flange F4 of motor (57 Stepper)

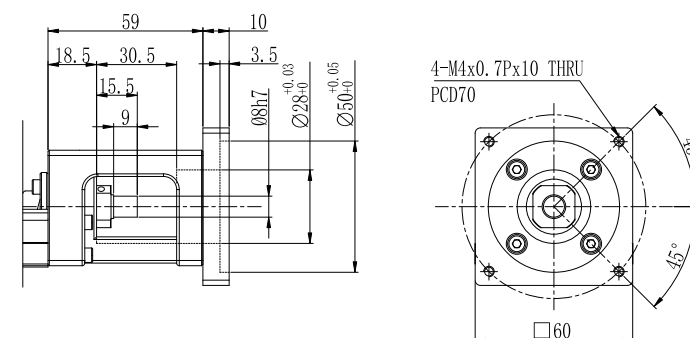


电机连接法兰F5(42步进) Connecting flange F5 of motor (42 Stepper)

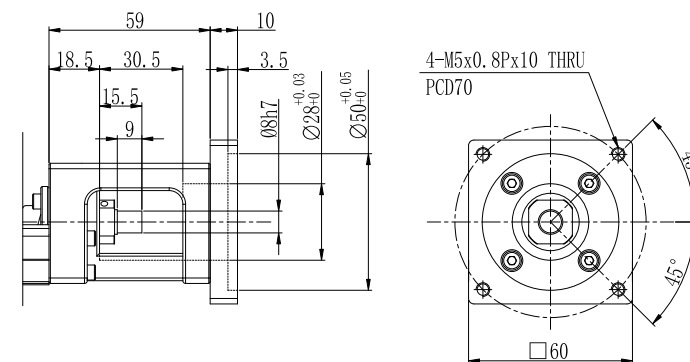


电机座与电机连接法兰 Motor seat and motor connecting flange

60 电机连接法兰F6(松下 200W/400W) Connecting flange F6 of motor (Panasonic 200W/400W)



电机连接法兰F7(台达/安川/汇川/三菱/富士 200W/400W) Connecting flange F7 of motor (Delta/Yaskawa/Inovance/Mitsubishi/Fuji 200W/400W)



KSR

KNR-E

参考资料
Reference
data



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

最大行程
Max Stroke 1100mm

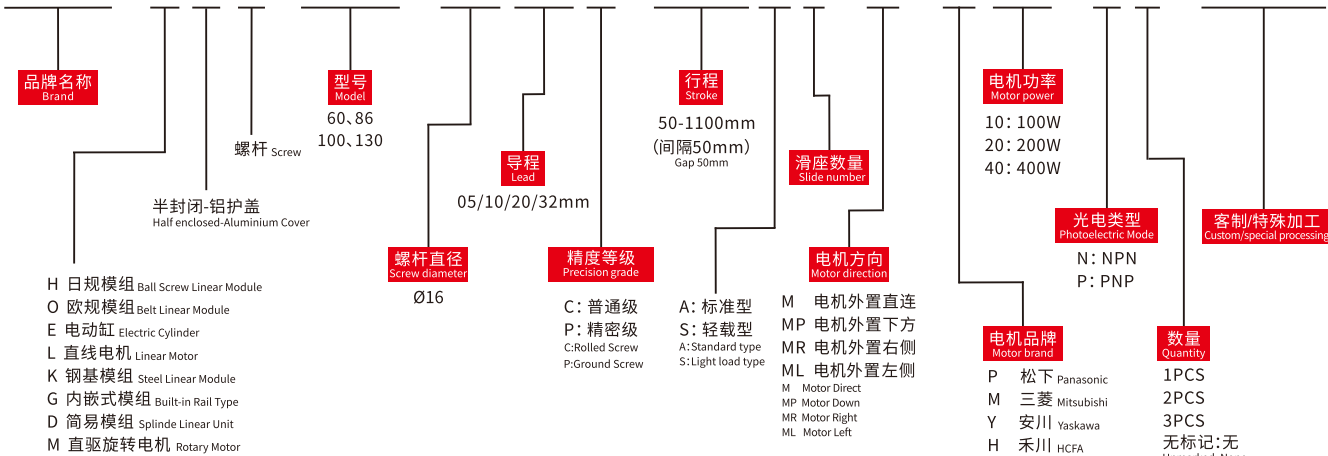
最高速度
Max Speed 1600mm/s

马达容量
Motor Output 400W

滚珠螺杆
Ball Screw Ø16mm

型号表达方式 Ordering method

TPA-KNR-86E-1610C-L50A1-M-M10-N3-F001



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	32
	最高速度 (mm/s) Maximum speed (mm/s)	250	500	1000	1600
	最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	60	45	22
		垂直使用 (kg) Vertical (kg)	20	16	10
	定格推力 (N) Rated thrust (N)	683	341	174	106
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)	200/400			
	滚珠螺杆外径 (mm) Ball screw Ø (mm)	C7Ø16			
	联轴器 (mm) Coupling (mm)	10X14/11 ^(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	24kg	1872	184	285
	42kg	1068	97	151
	60kg	660	64	98
导程 10 Lead	12kg	2076	343	494
	24kg	1006	163	235
	36kg	649	103	149
导程 20 Lead	7kg	1455	483	591
	10kg	960	316	387
	21kg	710	232	285
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	24kg	256	184	1722
	42kg	135	97	1014
	60kg	88	64	607
导程 10 Lead	12kg	444	343	1680
	24kg	212	163	960
	36kg	134	103	594
导程 20 Lead	7kg	532	483	912
	10kg	350	316	332
	21kg	256	232	652
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	13kg	430	430
	20kg	286	286
	-	-	-
导程 10 Lead	10kg	765	765
	16kg	478	478
	-	-	-
导程 20 Lead	10kg	1496	1496
	-	-	-
	-	-	-
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

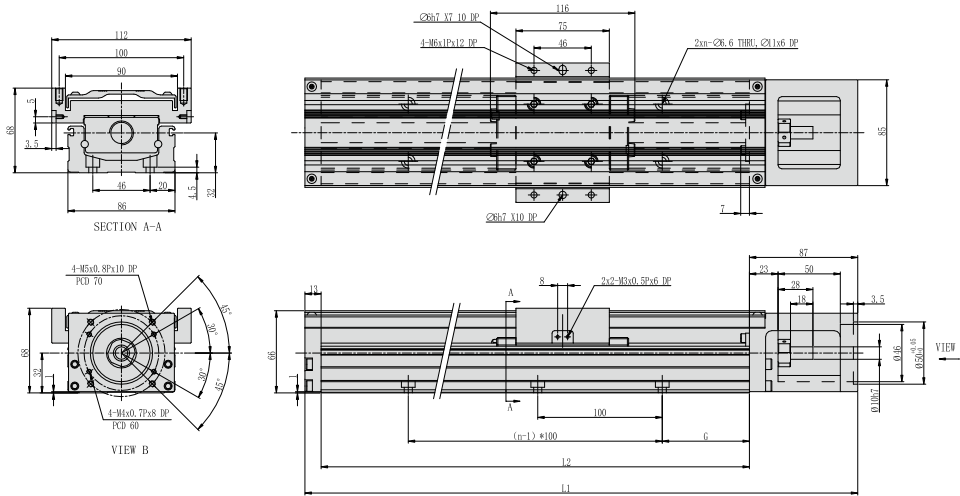
品牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Motor capacity	电源电压 AC-Voltage	伺服马达型号 Servo motor model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车(水平式样) No brake (horizontal type)	200	220	HG-KR23	MR-J4-20A
		有刹车(垂直式样) With brakes (vertical type)	200	220	HG-KR23B	MR-J4-20A
松下 Panasonic	P	无刹车(水平式样) No brake (horizontal type)	200	220	MHMD022G1U	MADHT1507
		有刹车(垂直式样) With brakes (vertical type)	200	220	MHMD022G1V	MADHT1507
台达 Delta	T	无刹车(水平式样) No brake (horizontal type)	200	220	ECMA-C20602ES	ASD-B20221
		有刹车(垂直式样) With brakes (vertical type)	200	220	ECMA-C20602FS	ASD-B20221



KNR 外形尺寸(含护盖)
KNR Overall dimensions(Cover included)

M KNR-86E 电机外置直连(含护盖) KNR-86E Motor external direct connection (Cover included)

单位:Unit: mm

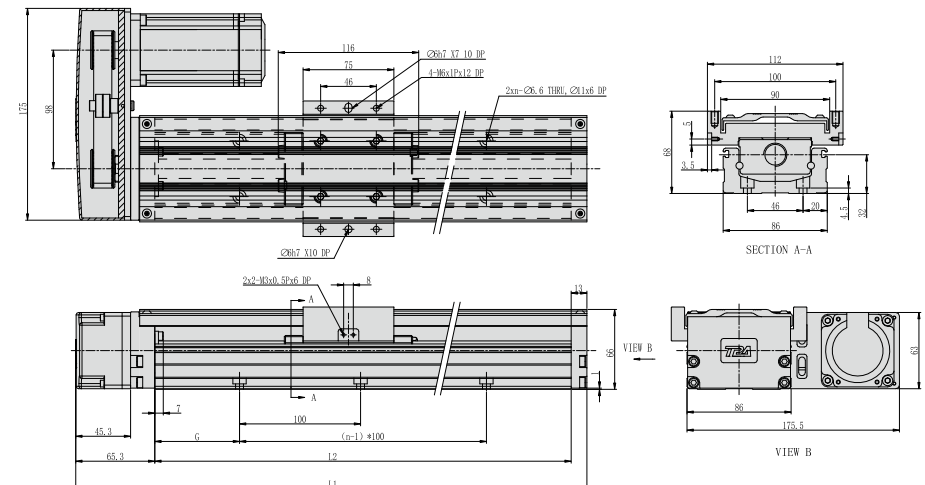


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L2	190	240	290	340	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240
L1	290	340	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340
G	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70
n	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
KG	4.3	4.5	4.7	4.9	5.1	5.3	5.5	5.7	5.9	6.1	6.3	6.5	6.7	6.9	7.1	7.3	7.5	7.7	7.9	8.1	8.3	8.5

KNR 外形尺寸(含护盖)
KNR Overall dimensions(Cover included)

MR KNR-86E 电机外置右侧(含护盖) KNR-86E Motor external right side (Cover included)

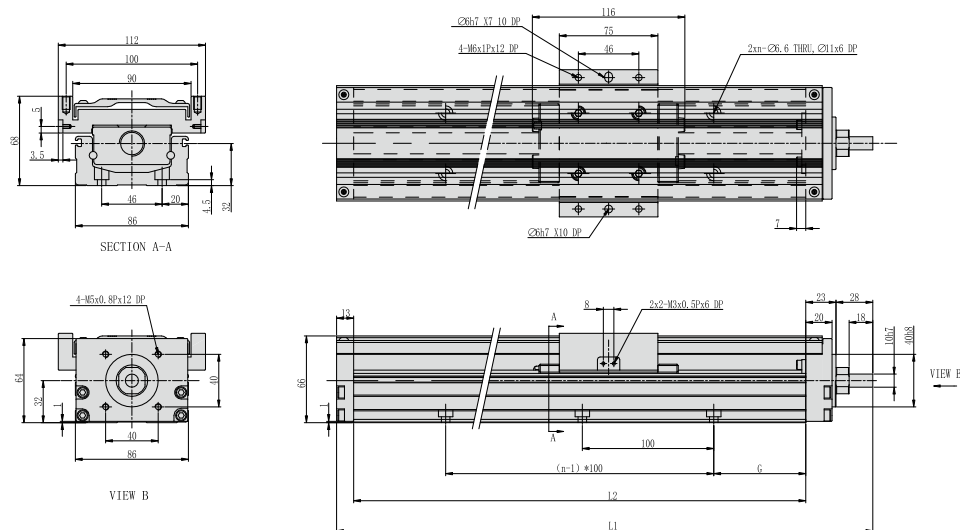
单位:Unit: mm



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
L2	190	240	290	340	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240
L1	268	318	368	418	468	518	568	618	668	718	768	818	868	918	968	1018	1068	1118	1168	1218	1268	1318
G	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70
n	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
KG	4.3	4.5	4.7	4.9	5.1	5.3	5.5	5.7	5.9	6.1	6.3	6.5	6.7	6.9	7.1	7.3	7.5	7.7	7.9	8.1	8.3	8.5

H0 KNR-86E-H0(含护盖) KNR-86E-H0 (including cover)

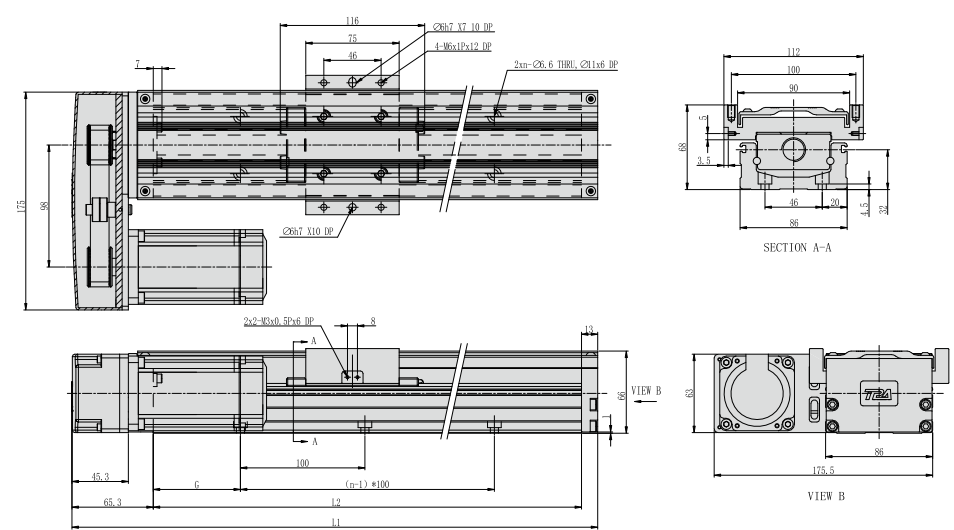
单位:Unit: mm



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
L2	190	240	290	340	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240
L1	254	304	354	404	454	504	554	604	654	704	754	804	854	904	954	1004	1054	1104	1154	1204	1254	1304
G	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70
n	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
KG	4.2	4.4	4.6	4.8	5	5.2	5.4	5.6	5.8	6	6.2	6.4	6.6	6.8	7	7.2	7.4	7.6	7.8	8	8.2	8.4

ML KNR-86E 电机外置左侧(含护盖) KNR-86E Motor external left side (Cover included)

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
L2	190	240	290	340	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240
L1	268	318	368	418	468	518	568	618	668	718	768	818	868	918	968	1018	1068	1118	1168	1218	1268	1318
G	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70	45	70
n	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
KG	4.3	4.5	4.7	4.9	5.1	5.3	5.5	5.7	5.9	6.1	6.3	6.5	6.7	6.9	7.1	7.3	7.5	7.7	7.9	8.1	8.3	8.5



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 1300mm

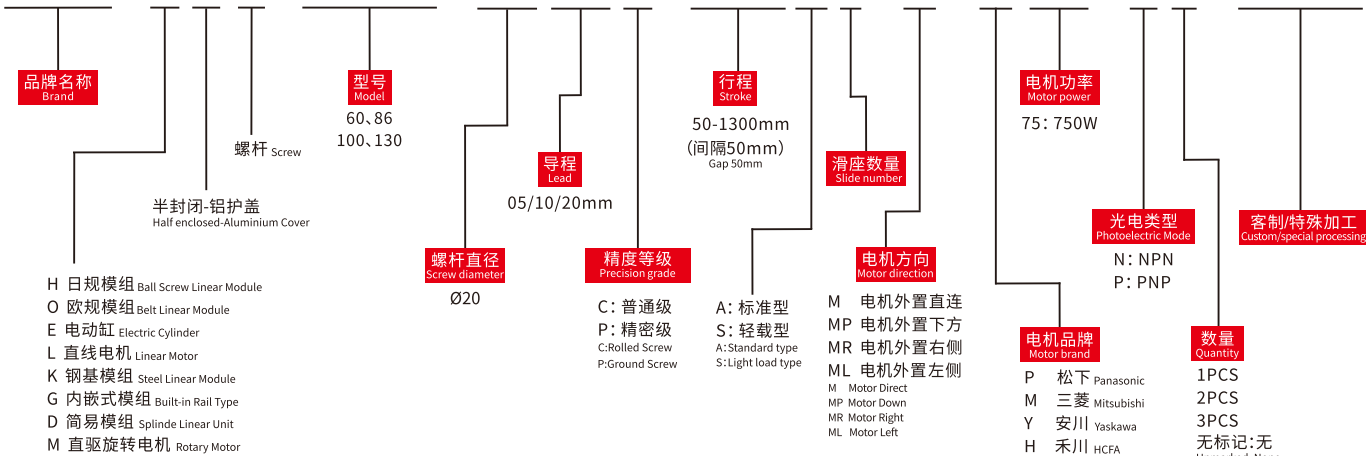
最高速度
Max Speed 1000mm/s

马达容量
Motor Output 750W

滚珠螺杆
Ball Screw $\varnothing 20$ mm

型号表达方式 Ordering method

TPA-KNR-100E-2010C-L50A1-M-M75-N3-F001



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)	95	65
		垂直使用 (kg) Vertical (kg)	40	20
	定格推力 (N) Rated thrust (N)	2563	1281	640
部品 Parts	标准行程 (mm) Stroke pitch (mm)	50~1300mm/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 $\varnothing$ (mm)	C7 $\varnothing 20$		
	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)

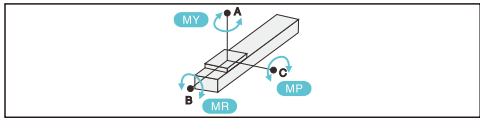
(单位Unit:mm)

水平安装 Horizontal installation		A	B	C
导程 5 Lead	55kg	2523	272	318
	70kg	1935	205	238
	95kg	1454	145	170
导程 10 Lead	44kg	1490	264	290
	56kg	1127	193	137
	76kg	780	128	142
导程 20 Lead	26kg	1300	426	419
	33kg	803	258	255
	45kg	512	160	159

侧面安装 Side mounting		A	B	C
导程 5 Lead	46kg	294	250	2330
	59kg	225	192	1820
	80kg	170	145	1443
导程 10 Lead	37kg	318	287	1632
	47kg	230	208	1212
	64kg	142	142	860
导程 20 Lead	22kg	494	502	1530
	28kg	284	288	891
	38kg	159	184	524

垂直安装 Vertical installation		A	C
导程 5 Lead	16kg	1094	1094
	24kg	728	728
	50kg	436	436
导程 10 Lead	12kg	1294	1294
	20kg	776	776
	40kg	485	485
导程 20 Lead	8kg	1537	1537
	11kg	1100	1100
	20kg	615	615

静态容许负载惯量 Static loading moment



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



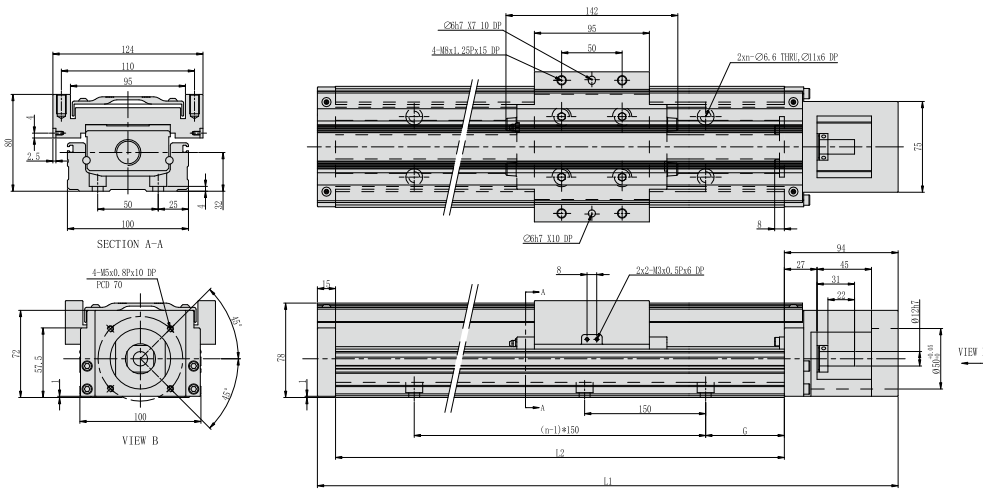
KNR 外形尺寸(含护盖)

KNR Overall dimensions(Cover included)

M

KNR-100E 电机外置直连(含护盖) KNR-100E Motor external direct connection (Cover included)

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
L2	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480
L1	339	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539	1589
G	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65
n	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
KG	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8	12.2	12.6	13	13.4	13.8	14.2	14.6	15	15.4	15.8

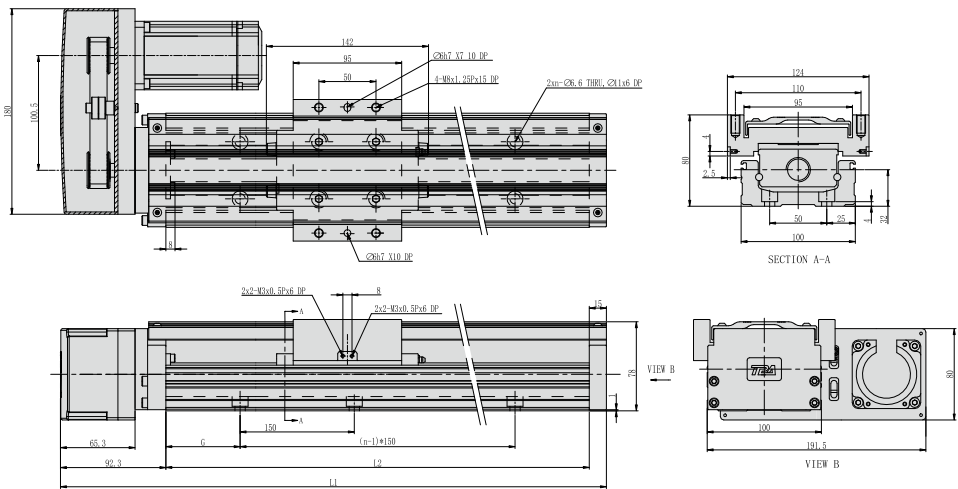
KNR 外形尺寸(含护盖)

KNR Overall dimensions(Cover included)

MR

KNR-100E 电机外置右侧(含护盖) KNR-100E Motor external right side (Cover included)

单位:Unit: mm

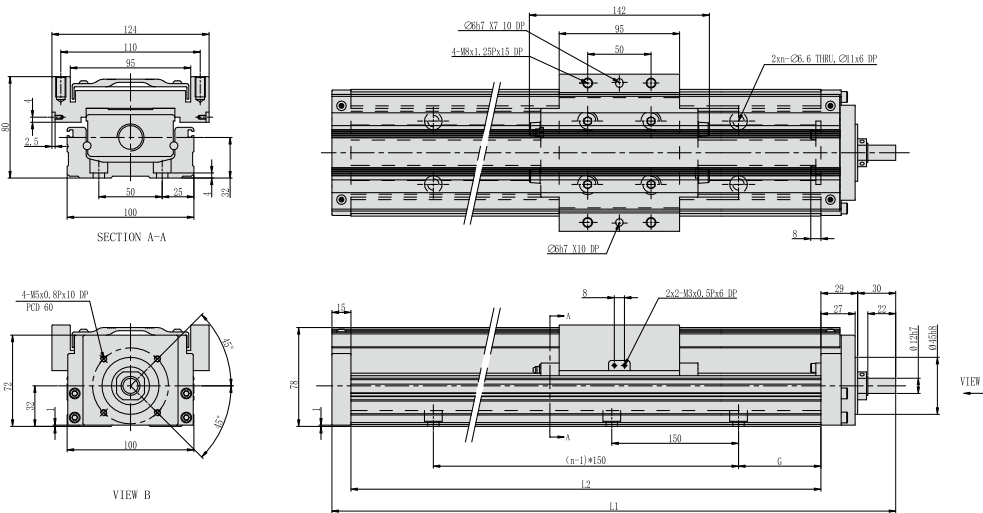


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L2	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480
L1	337	387	437	487	537	587	637	687	737	787	837	887	937	987	1037	1087	1137	1187	1237	1287	1337	1387	1437	1487	1537	1587
G	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65
n	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
KG	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8	12.2	12.6	13	13.4	13.8	14.2	14.6	15	15.4	15.8

H0

KNR-100E-H0(含护盖) KNR-100E-H0 (including cover)

单位:Unit: mm

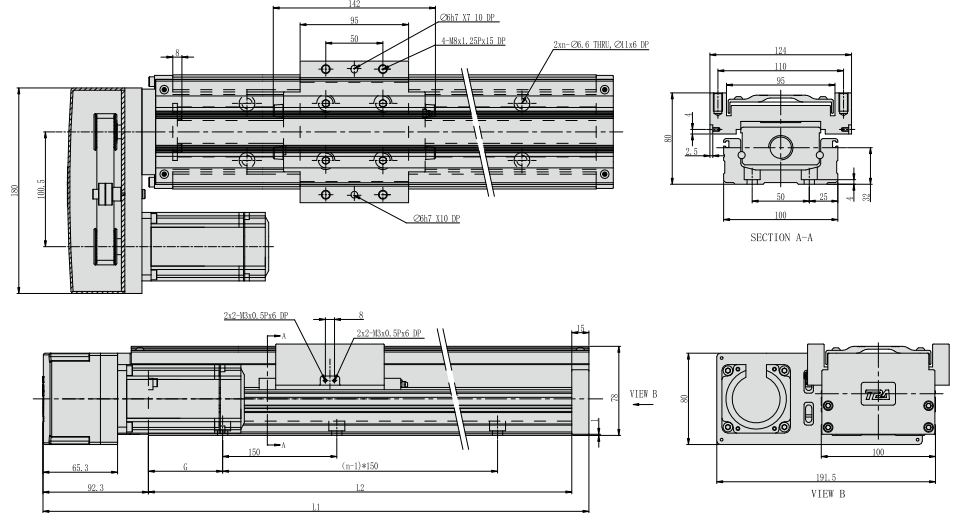


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L2	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480
L1	304	354	404	454	504	554	604	654	704	754	804	854	904	954	1004	1054	1104	1154	1204	1254	1304	1354	1404	1454	1504	1554
G	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65
n	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
KG	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.5	8.9	9.3	9.7	10.1	10.5	10.9	11.3	11.7	12.1	12.5	12.9	13.3	13.7	14.1	14.5	14.9	15.3	15.7

ML

KNR-100E 电机外置左侧(含护盖) KNR-100E Motor external left side (Cover included)

单位:Unit: mm



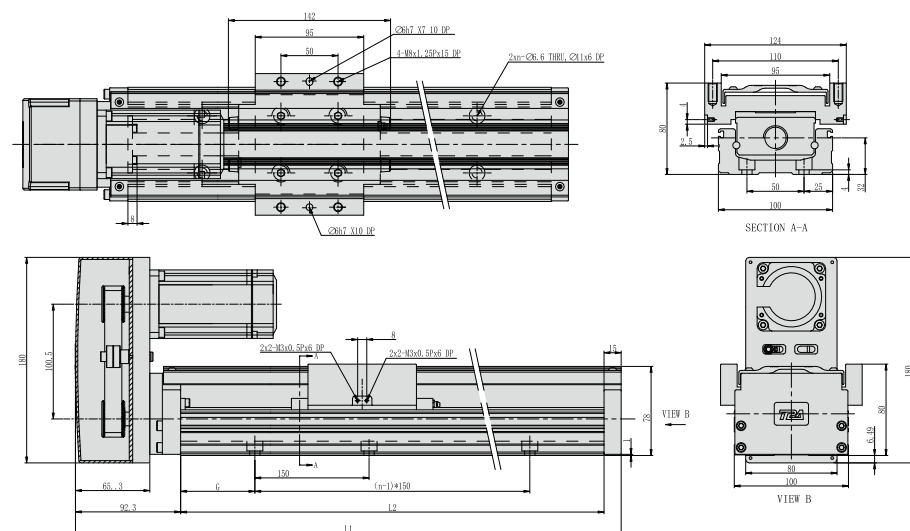
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L2	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480
L1	337	387	437	487	537	587	637	687	737	787	837	887	937	987	1037	1087	1137	1187	1237	1287	1337	1387	1437	1487	1537	1587
G	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65
n	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
KG	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8	12.2	12.6	13	13.4	13.8	14.2	14.6	15	15.4	15.8

■ KNR 外形尺寸(含护盖)

KNR Overall dimensions(Cover included)

MU KNR-100E 电机外置上方(含护盖) KNR-100E Motor external above (Cover included)

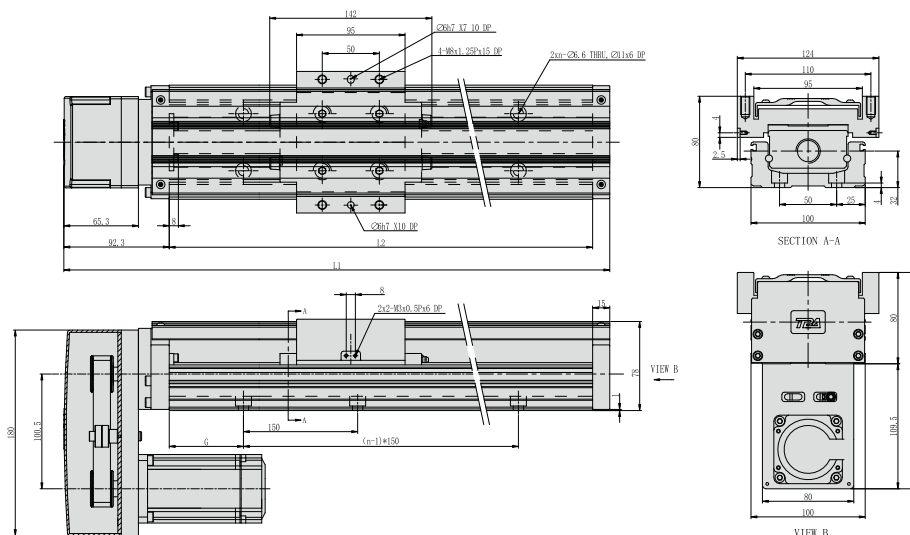
单位:Unit:mm



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
L2	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480
L1	337	387	437	487	537	587	637	687	737	787	837	887	937	987	1037	1087	1137	1187	1237	1287	1337	1387	1437	1487	1537	1587
G	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65
n	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	9	10	10
KG	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8	12.2	12.6	13	13.4	13.8	14.2	14.6	15	15.4	15.8

MP KNR-100E 电机外置下方(含护盖) KNR-100E Motor external under below (Cover included)

单位:Unit:mm

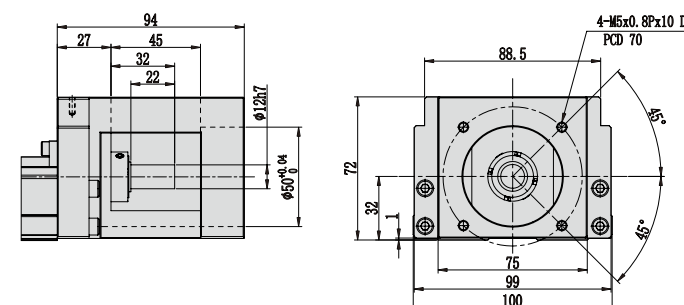


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
L2	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480
L1	337	387	437	487	537	587	637	687	737	787	837	887	937	987	1037	1087	1137	1187	1237	1287	1337	1387	1437	1487	1537	1587
G	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65	15	40	65
n	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	9	10	10
KG	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8	12.2	12.6	13	13.4	13.8	14.2	14.6	15	15.4	15.8

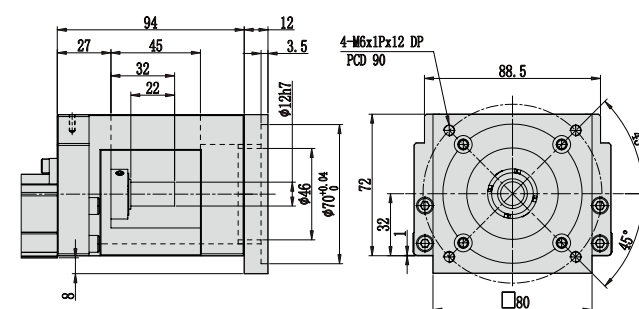
电机座与电机连接法兰

Motor seat and motor connecting flange

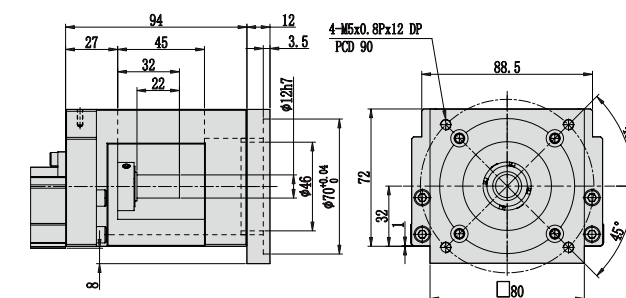
100 电机座F0(台达/安川/汇川/三菱/富士 200W/400W) Motor seat F0 (Delta/Yaskawa/Inovance/Mitsubishi/Fuji 200W/400W)



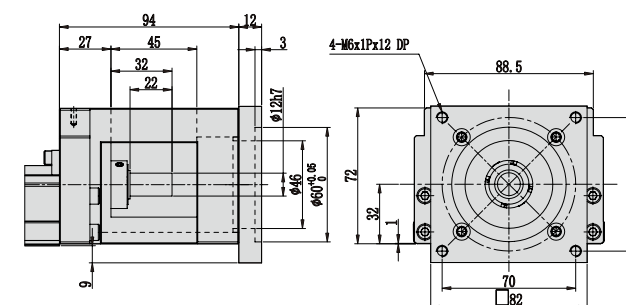
电机座F1(台达/安川/汇川/三菱/富士 750W) Motor seat F1 (Delta/Yaskawa/Inovance/Mitsubishi/Fuji 750W)



100 电机座F2(松下 750W) Motor seat F2 (Panasonic 750W)



电机座F3 Motor seat F3

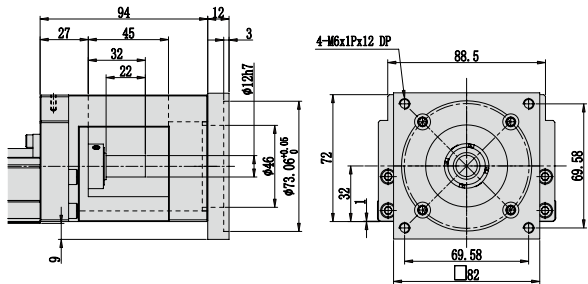




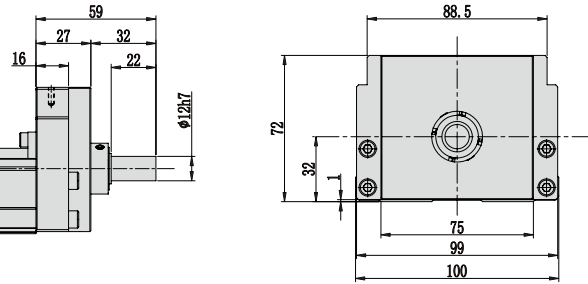
电机座与电机连接法兰

Motor seat and motor connecting flange

100 电机座F4(86步进) Motor seat F4(86 Stepper)



电机座H0 Motor seat H0



MEMO

KSR

KNR-E

参考资料
Reference
data



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

最大行程
Max Stroke 1600mm

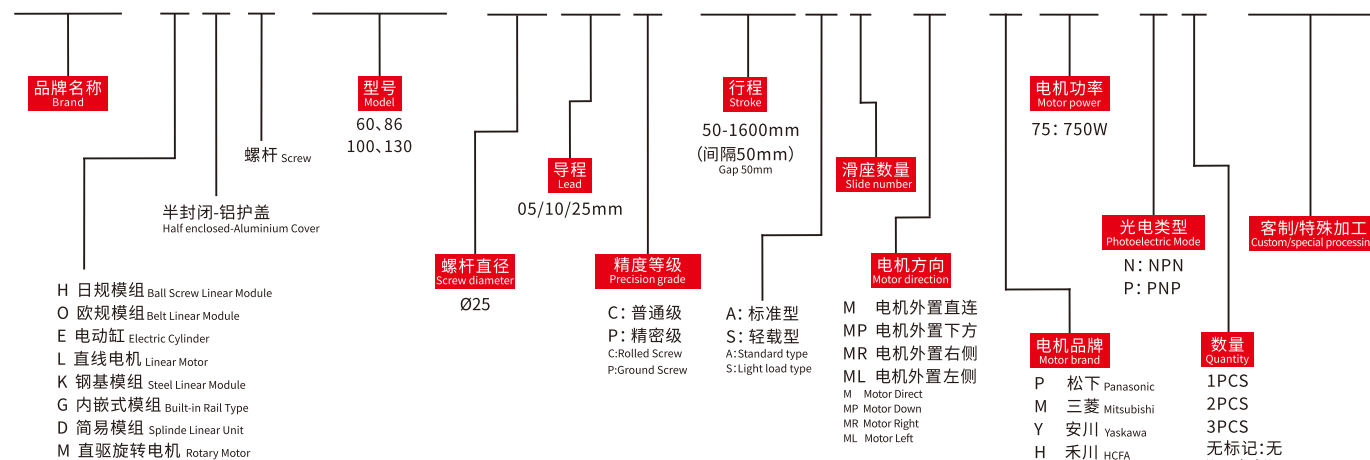
最高速度
Max Speed 1250mm/s

马达容量
Motor Output

滚珠螺杆
Ball Screw

型号表达方式 Ordering method

TPA-KNR-130E-2510C-L50A1-M-M75-N3-F001

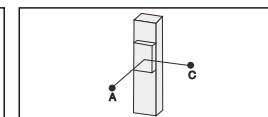
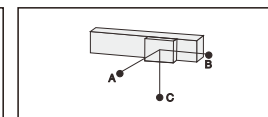
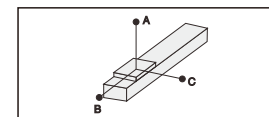


产品性能参数如下 Product performance parameters are as follows

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	25
	最高速度 (mm/s) ^{※2} Maximum speed (mm/s)		250	500	1250
	最大可搬重量 Maximum Payload	水平使用 (kg) Horizontal (kg)	120	120	83
		垂直使用 (kg) Vertical(kg)	50	40	25
	定格推力 (N) Rated thrust (N)		2563	1281	640
	标准行程 (mm) ^{※1} Stroke pitch (mm)		50~1600mm/50 间隔 50 mm Pitch		
部品 Parts	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		

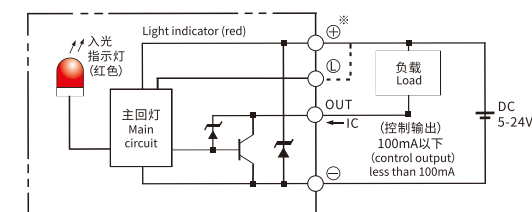
- ※1 行程超过850mm时,会产生螺杆偏摆,此时请将速度调降。
- ※1 When the stroke exceeds 850mm, the screw deflection will occur.
Please reduce the speed at this time.
- ※2 马达加减速设定0.2秒。
- ※2 Acceleration and deceleration value is set 0.2 second.

容许负载力矩表 N.m Allowable overhang

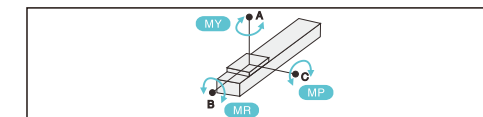


(単位Unit:mm)					(単位Unit:mm)					(単位Unit:mm)					
水平安装 Horizontal installation		A	B	C	側面安装 Side mounting		A	B	C	垂直安装 Vertical installation		A	C		
導程 5 Lead	70kg	3235	349	408	導程 5 Lead	75kg	377	322	2988	導程 5 Lead	20kg	1368	1368		
	90kg	2482	263	306		導程 5 Lead	95kg	288	246		2333	導程 5 Lead	30kg	911	911
	120kg	1861	187	218			導程 5 Lead	120kg	218		187		1850	導程 5 Lead	50kg
導程 10 Lead	65kg	1911	338	373	導程 10 Lead			60kg	408	368	2092		導程 10 Lead		15kg
	85kg	1445	248	276		導程 10 Lead		80kg	296	266	1554	導程 10 Lead			25kg
	120kg	1000	164	182			導程 10 Lead	120kg	182	182	1102			導程 10 Lead	40kg
導程 25 Lead	35kg	1666	547	538	導程 25 Lead			30kg	633	644	1961		導程 25 Lead		10kg
	55kg	1030	331	328		導程 25 Lead		50kg	365	369	1143	導程 25 Lead			14kg
	83kg	654	206	204			導程 25 Lead	83kg	230	231	656			導程 25 Lead	25kg

感应器连接图<原点及端点> Sensor layout



静态容许负载惯量 Static loading moment



(單位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.
- *符合型式检验的正常试用下,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



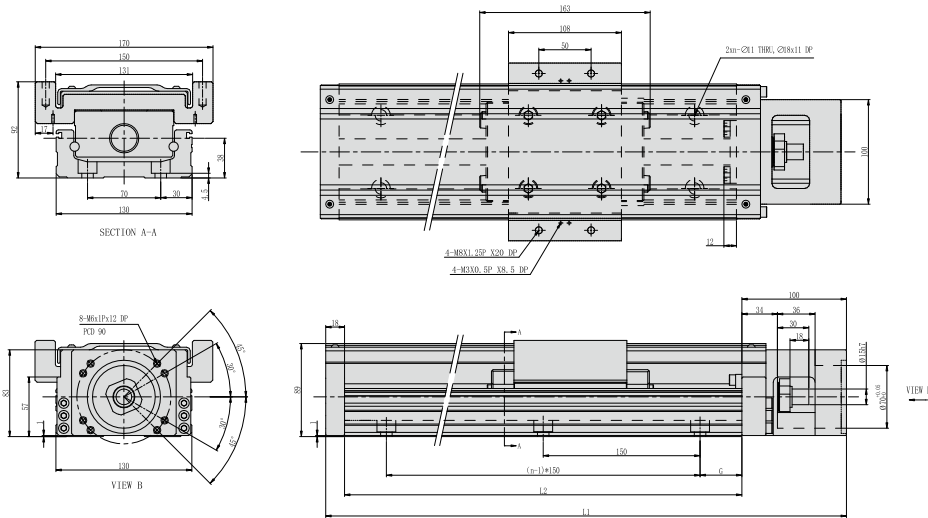
KNR 外形尺寸(含护盖)

KNR Overall dimensions(Cover included)

M

KNR-130E 电机外置直连(含护盖) KNR-130E Motor external direct connection (Cover included)

单位:Unit: mm

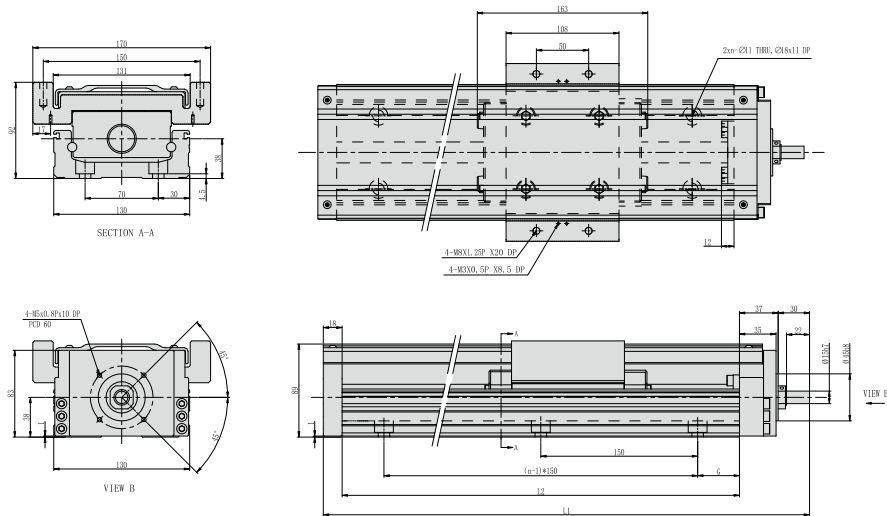


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
L2	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780
L1	348	398	448	498	548	598	648	698	748	798	848	898	948	998	1048	1098	1148	1198	1248	1298	1348	1398	1448	1498	1548	1598	1648	1698	1748	1798	1848	1898
G	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65
n	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	12
KG	6.98	7.48	7.98	8.48	8.98	9.48	9.98	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

H0

KNR-130E-H0(含护盖) KNR-130E-H0 (including cover)

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
L2	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780
L1	315	365	415	465	515	565	615	665	715	765	815	865	915	965	1015	1065	1115	1165	1215	1265	1315	1365	1415	1465	1515	1565	1615	1665	1715	1765	1815	1865
G	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65
n	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	12
KG	6.88	7.38	7.88	8.38	8.88	9.38	9.88	10.4	10.9	11.4	11.9	12.4	12.9	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.4	20.9	21.4	21.9	22.4

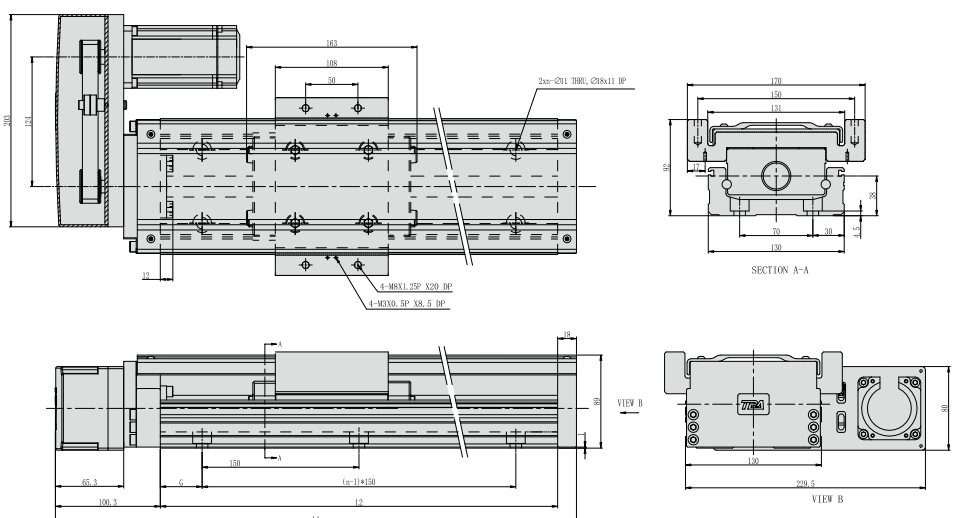
KNR 外形尺寸(含护盖)

KNR Overall dimensions(Cover included)

MR

KNR-130E 电机外置右侧(含护盖) KNR-130E Motor external right side (Cover included)

单位:Unit: mm

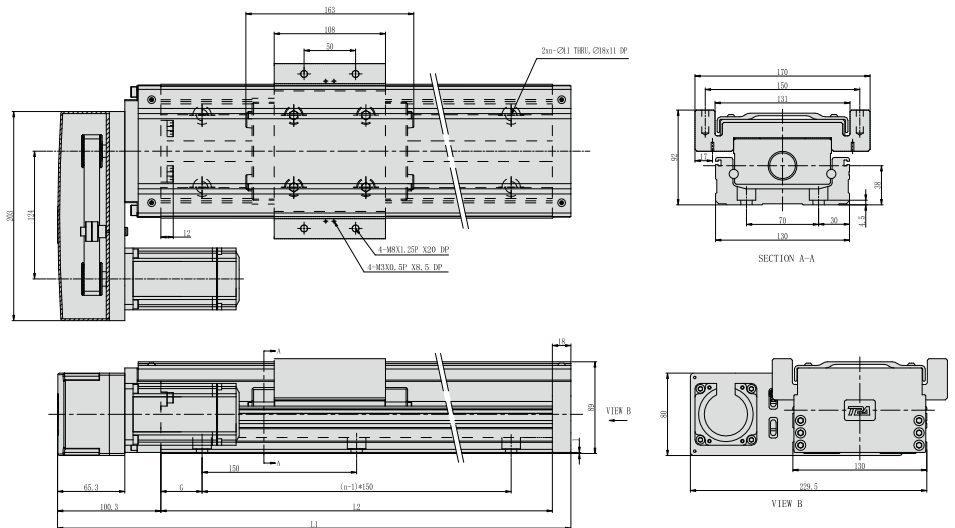


有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
L2	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780
L1	348	398	448	498	548	598	648	698	748	798	848	898	948	998	1048	1098	1148	1198	1248	1298	1348	1398	1448	1498	1548	1598	1648	1698	1748	1798	1848	1898
G	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65
n	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	12
KG	6.98	7.48	7.98	8.48	8.98	9.48	9.98	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

ML

KNR-130E 电机外置左侧(含护盖) KNR-130E Motor external left side (Cover included)

单位:Unit: mm



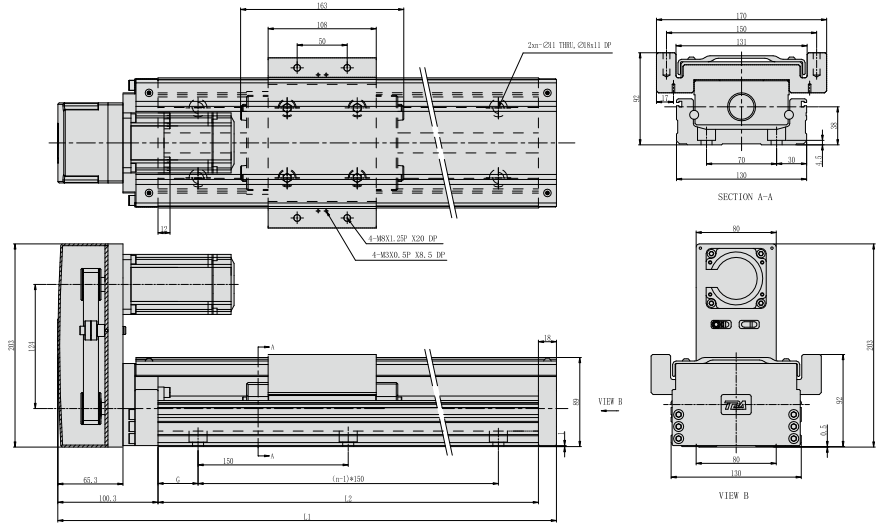
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
L2	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780
L1	348	398	448	498	548	598	648	698	748	798	848	898	948	998	1048	1098	1148	1198	1248	1298	1348	1398	1448	1498	1548	1598	1648	1698	1748	1798	1848	1898
G	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65
n	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	12
KG	6.98	7.48	7.98	8.48	8.98	9.48	9.98	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



KNR 外形尺寸 (含护盖)
KNR Overall dimensions (Cover included)

MU KNR-130E 电机外置上方 (含护盖) KNR-130E Motor external above (Cover included)

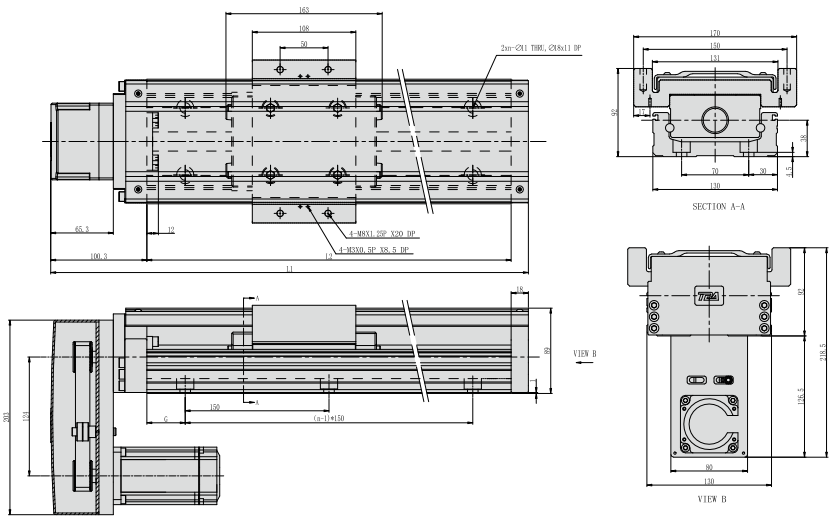
单位:Unit: mm



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
L2	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780
L1	348	398	448	498	548	598	648	698	748	798	848	898	948	998	1048	1098	1148	1198	1248	1298	1348	1398	1448	1498	1548	1598	1648	1698	1748	1798	1848	1898
G	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65
n	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	12
KG	6.98	7.48	7.98	8.48	8.98	9.48	9.98	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

MP KNR-130E 电机外置下方 (含护盖) KNR-130E Motor external under below (Cover included)

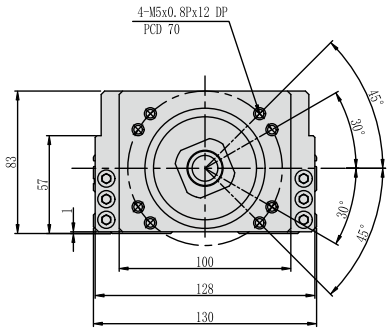
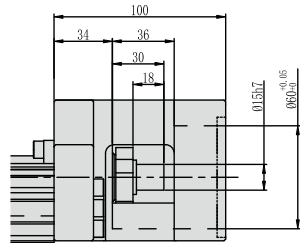
单位:Unit: mm



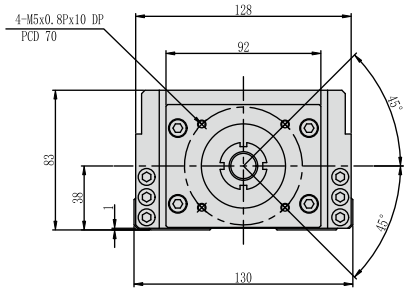
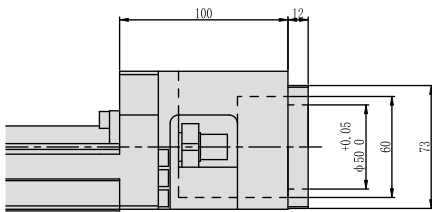
有效行程 Valid Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
L2	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780
L1	348	398	448	498	548	598	648	698	748	798	848	898	948	998	1048	1098	1148	1198	1248	1298	1348	1398	1448	1498	1548	1598	1648	1698	1748	1798	1848	1898
G	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65	90	40	65
n	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	12
KG	6.98	7.48	7.98	8.48	8.98	9.48	9.98	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

电机座与电机连接法兰
Motor seat and motor connecting flange

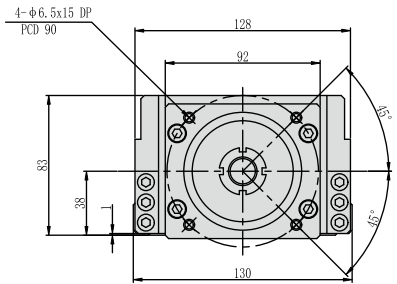
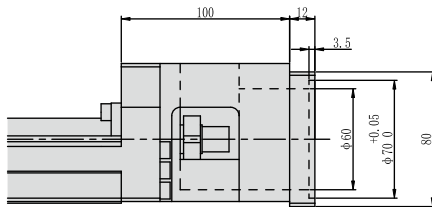
130 电机座F0 Motor seat F0



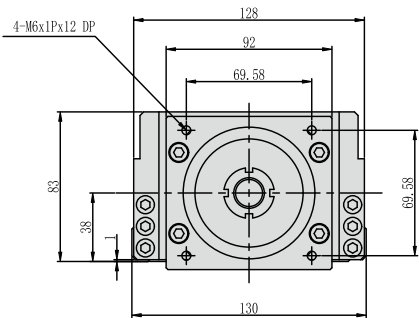
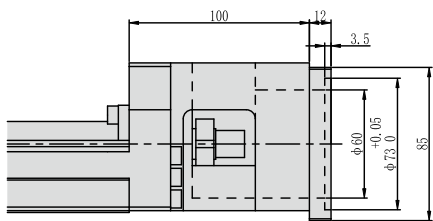
电机座F1 Motor seat F1



130 电机座F2 Motor seat F2



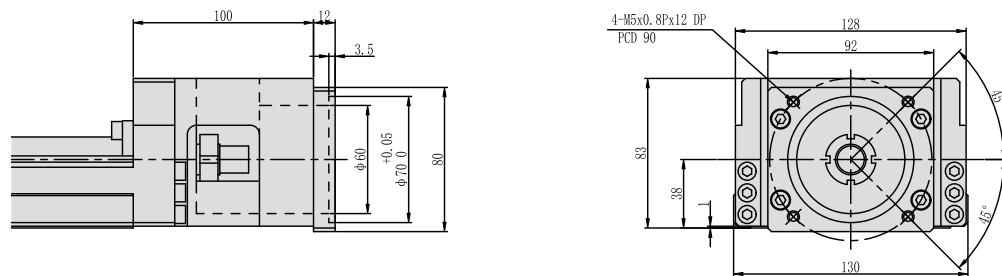
电机座F3 Motor seat F3



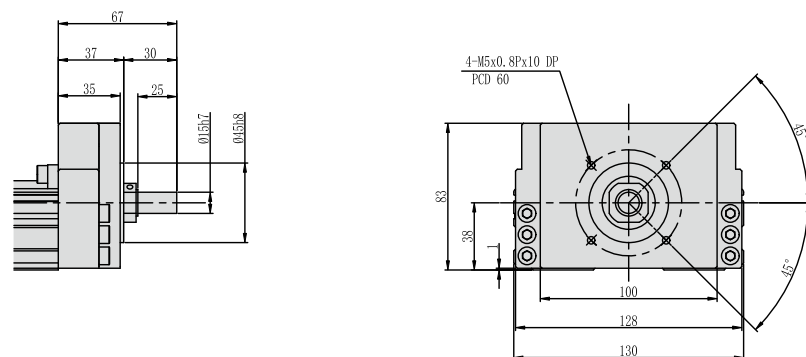


电机座与电机连接法兰
Motor seat and motor connecting flange

130 电机座F4 Motor seat F4



电机座H0 Motor seat H0



MEMO

KSR

KNR-E

参考资料
Reference
data



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

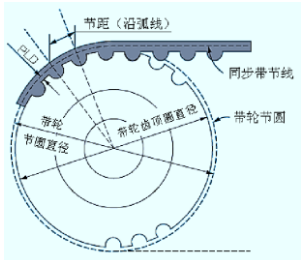
T_m=入力扭矩 T_m=Force torque

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	●	
搬送装置Transport device	●	●
X-Y平台 X-Y stage	●	
阀门Valve		●
动力转向器Power steering gear		●
玻璃研磨机Glass grinder	●	
表面研磨机Surface grinder	●	
半导体设备Semiconductor equipment		●
全电式射出成形机 All electric injection molding	●	●



联轴器

Coupling

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

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

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

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

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

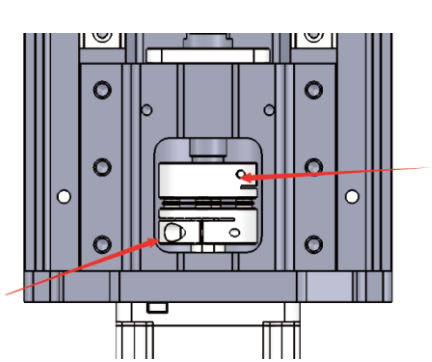


图1 Figure 1

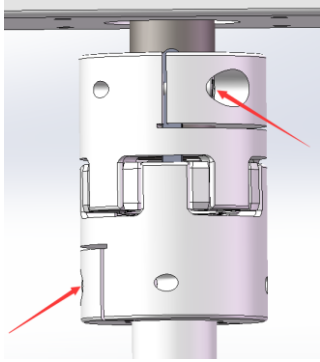
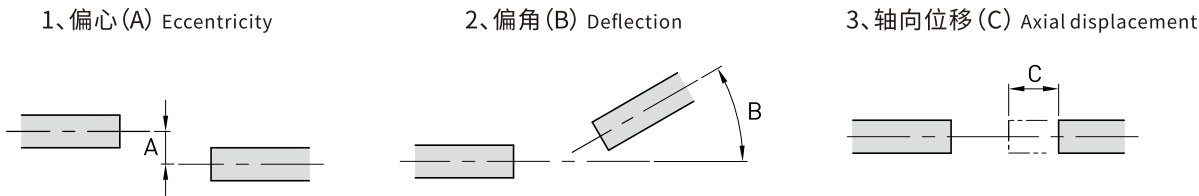


图2 Figure 2

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

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

螺杆肩部与电机轴两轴组装时，需注意以下三种基本偏差，说明图示如下：
When assembling the screw and the motor shaft, the following three basic deviations 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
M3	1.5-1.9
M4	3.4-4.1
M5	7.0-8.5
M6	14-15
M8	27-30

联轴器参考资料 Reference data of coupling

型号 Model	额定扭矩 Rated Torque (N.m)	最高转速 Max.Rotational Frequency (rpm)	转动惯量 Moment of Inertia (Kg.m ²)	静态扭矩刚性 Static Torsional Stiffness (N.m/rad)	容许径向偏差 Errorsof Eccentricity (mm)	容许角向偏差 Errorsof Angularity (°)	容许轴向偏差 Errors of Angularity (mm)	重量 N.W. (g)
LK5-C19-□□□-□□□WP	1.0	10000	9.1x10 ⁻⁷	700	0.11	2	±0.2	17
LK5-C26-□□□-□□□WP	2.0	10000	3.61x10 ⁻⁶	1850	0.15	2	±0.33	37
LK5-C27-□□□-□□□WP	2.2	10000	4.4x10 ⁻⁶	2200	0.15	2	±0.33	40
LK5-C30-□□□-□□□WP	4.0	10000	6.18x10 ⁻⁶	2850	0.16	2	±0.38	46
LK5-C345-□□□-□□□WP	5.0	10000	1.19x10 ⁻⁵	4050	0.18	2	±0.4	72
LK5-C34-□□□-□□□WP	5.0	10000	1.33x10 ⁻⁶	4050	0.18	2	±0.4	80
LK5-C39-□□□-□□□WP	10	10000	2.58x10 ⁻⁵	9000	0.24	2	±0.5	118
LK5-C44-□□□-□□□WP	12	10000	4.23x10 ⁻⁵	10000	0.24	2	±0.6	150
LK5-C50-□□□-□□□WP	15	10000	8.18x10 ⁻⁵	13000	0.26	2	±0.7	222
LK5-C56-□□□-□□□WP	25	10000	1.41x10 ⁻⁴	16000	0.28	2	±0.8	307
LK5-C62-□□□-□□□WP	40	10000	2.52x10 ⁻⁴	25000	0.31	2	±0.84	431
LK5-C68-□□□-□□□WP	60	10000	3.57x10 ⁻⁴	35000	0.34	2	±0.9	499
LK5-C82-□□□-□□□WP	100	10000	1.02x10 ⁻⁴	45000	0.52	2	±1.1	1004

※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.

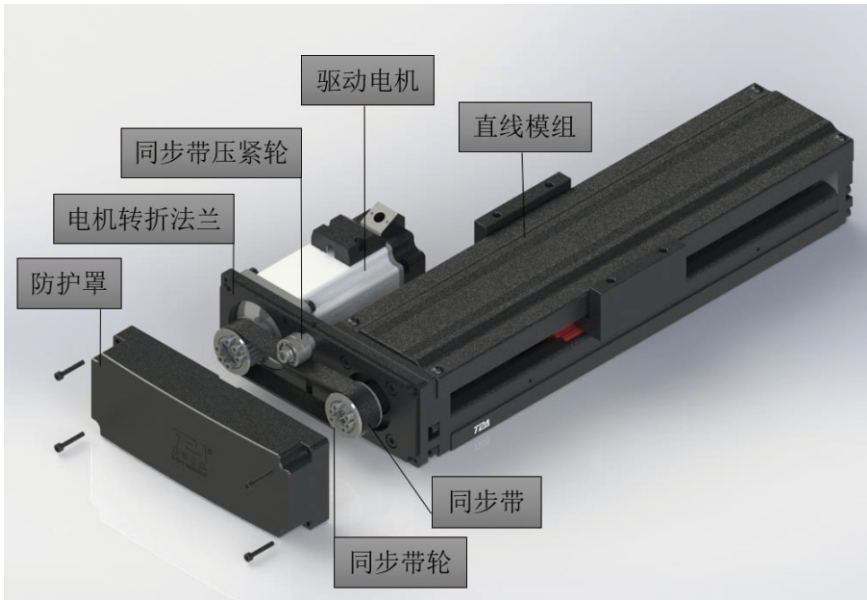


转折电机安装

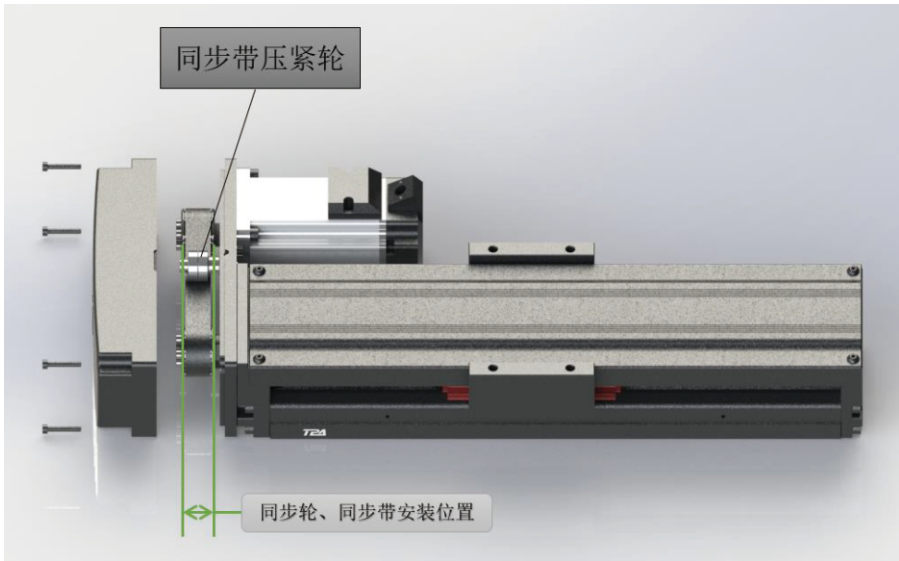
Installation of the reversing motor

(1) 下图为直线模组的转折形式：包含直线模组、电机转折法兰、同步带轮、同步带、同步带压紧轮、防护罩。

(2) 安装电机转折法兰，将电机转折法兰固定至直线模组端面安装孔内（电机转折方向可根据设备空间随意调整上、下、左、右），转折法兰设有电机安装定位孔，装入电机并使用螺丝紧固。

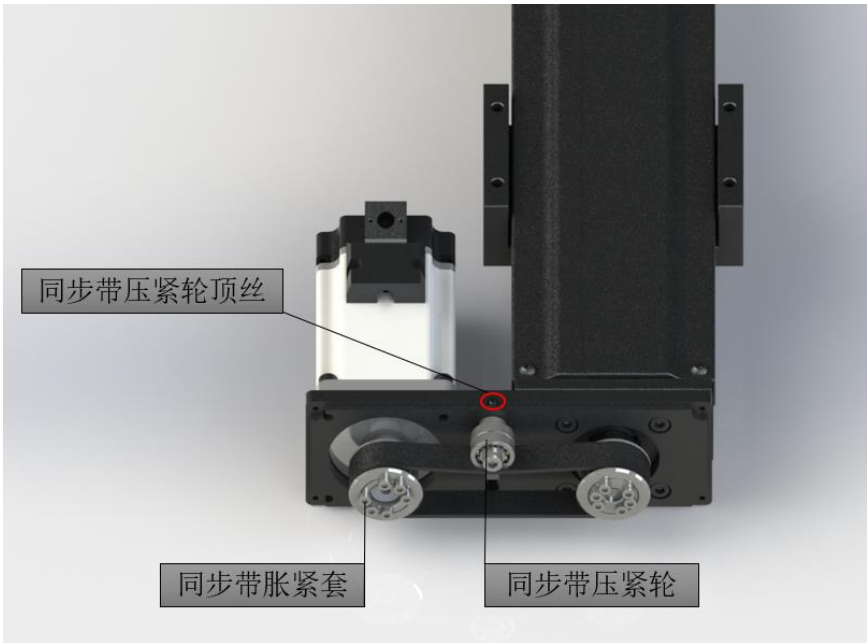


(3) 如下图所示，将同步带套至连个同步带轮齿槽内，以同步带压紧轮为基准调整同步带轮前后位置，对中后锁紧同步带轮胀紧套。



(4) 松开同步带轮压紧轮顶丝，上下移动同步带压紧轮，通过同步带压紧轮顶丝松紧调整同步带张紧力，张紧力调整完成后固定同步带轮压紧轮，拧紧同步带轮压紧轮顶丝。

使用张力计弹测同步带张力值，如超出张力值范围重复上述调整步骤。



钢基标准模组同步带安装张紧力

型号	切线长(MM)	推荐皮带张紧力(N)	皮带震动频率(HZ)	张紧力取值范围(N)	皮带型号宽度
Kk40	60	40	347.6	20-60	S3M174-6
KK50	60		331		S3M174-6
	63				
KK60	72	225	436.2	150-300	S3M-234-15
	76	185	385	120-250	S3M261-14
	80		365.8		S3M270-14
KK86	100		292.7		S3M309-14
	98	298.6	S3M306-14		
	116	130	189.24	95-165	S5M375-15
KK100	100	325	309.2	250-400	S3M-309-22
	114	180	203.12	132-228	S5M370-20
130E	134	230	179.45	169-291	S5M410-25



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, 此时因加减速机, 调节电机刚性, 加大扭矩, 从而平稳运行。

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

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

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

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

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

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

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

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

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



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.

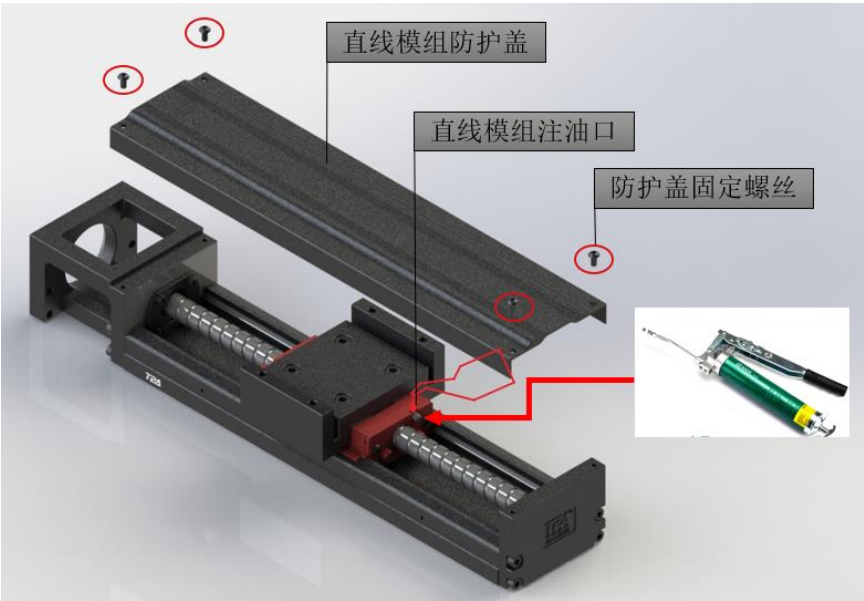


维护和保养

(1)直线模组在运行前执行定期性检查或保养,可确保直线模组的安全性与寿命。
直线模组的定期检查包含了:每天运行前检查、每三个月定期检查与保养、每六个月定期检查与保养、每年定期检查与保养,在使用频率高的情况下,请缩短定期检查保养周期。

周期	丝杆、线型轨道	联轴器
每天运转前检查	检查	检查
每三个月	检查/保养	检查
每六个月	检查/保养	检查
每年	检查/保养	检查
检查保养重点	检查:是否有不正常的震动或噪音。 保养:建议使用润滑油型号AFEP2或NSK LG-2无尘室专用丝杆、滑轨润滑油。	检查:1、检查联轴器是否有坏; 2、确认联轴器加紧螺丝是否松动
异常处理	不良则需要更换	1、联轴器损坏则需跟换 2、螺丝松动紧固即可

(2)松掉直线模组防护盖4颗固定螺丝,取下模组防护盖,使用干净的无尘布清理滚珠丝杆、线性轨道表面残余陈旧油脂。



(3)直线模组滑座端面设有润滑油注油嘴,使用加油枪顶住注油头,保养注油依次移动滑座15mm注油,每次停顿打油4-5下(注油次数可多不可少)。

润滑油

1.润滑油的功能与需求

- (1) 润滑油的主要作用
- a) 减少摩擦、防止高温烧伤、降低磨损
 - b) 在受力面形成油膜,减小表面应力,延长疲劳寿命
 - c) 防锈作用
- (2) 润滑油的一般要求
- a) 摩擦小
 - b) 良好的耐磨损性能c) 良好的热稳定性
 - d) 具有良好的防锈性e) 水分及粉尘量低
 - f) 润滑油的稠度稳定

2.润滑油的选择

润滑油脂的基本形成

- (1) 润滑油:基础油(矿物油+合成油)+添加剂(抗磨剂、防锈剂、抗腐蚀剂等)
- (2) 润滑脂:润滑油(润滑油组成)+增稠剂(或皂基)(皂基可比作为海绵,可将润滑油吸附柱,以利于润滑油来润滑,增加润滑性能)

推荐品牌/型号	使用条件		基础油黏度 (est/40°C)	适用温度范围 (°C)	锥入度 (NLGI)	皂基	应用场合 (参考)
1.LUBE Fs2 2.LUBE Ys2	重负荷BS	重负荷、耐极压	500	-15,115	1	聚脲素基	1.射出机 2.压铸机 3.锻铸机
1.NSK LGU 2.THK AFF 3.THK AFE-CA 4.Kyodo ET-100K	DN<120.000	低发尘	100	-20,140	2	特殊钙皂基	1.无尘室环境机台 2.半导体检测设备 3.医疗检测设备
1.NSK Lg2	DN<120.000	低发尘(高速用)	20	-45,125	2	特殊钙皂基	1.无尘室环境机台(高速、低温)
1.NSK Lr3 2.THK AFA 3.Kluber NBU15	DN<120.000	高速低摩擦	25	-35,120	2	锂皂基	1.自动化设备(高速) 2.工具机(高速) 3.搬运机械(高速)
1.NSK As2 2.THK AFB-LF 3.Mobil XHP222	DN<120.000	泛用低摩擦	200	-15,120	2	锂皂基	1.自动化设备(一般) 2.工具机(一般) 3.搬运机械(一般)
1.NSK Nf2 2.NSK Lr3 3.THK AFC 4.Kyodo LRL3	DN<120.000	高频短行程	32	-45,130	2	特殊锂皂基	1.PCB钻孔机(高频短行程)
1.NSK Ps2 2.THK AFC 3.KYODO Ps2 4.BEICHEM FR43	DN<120.00	低温环境	14	-5,080	1	锂钙皂基	1.低温环境



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):					maximumspeed(mm/s):					
	Load (kg):					Repetition positioning accuracy(mm):					
	Residencetime(s):					Acceleration and deceleration time(s):					
	Installation method:										
	Load and Cantilever Length(mm)										
		A	B	C	A	B	C	A	C		
Combinationform	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:				