

ATG智造·慧及全球

Wisdom Made IN ATG·Wisdom The World

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追求完美品质



高精度圆周运动产品服务商

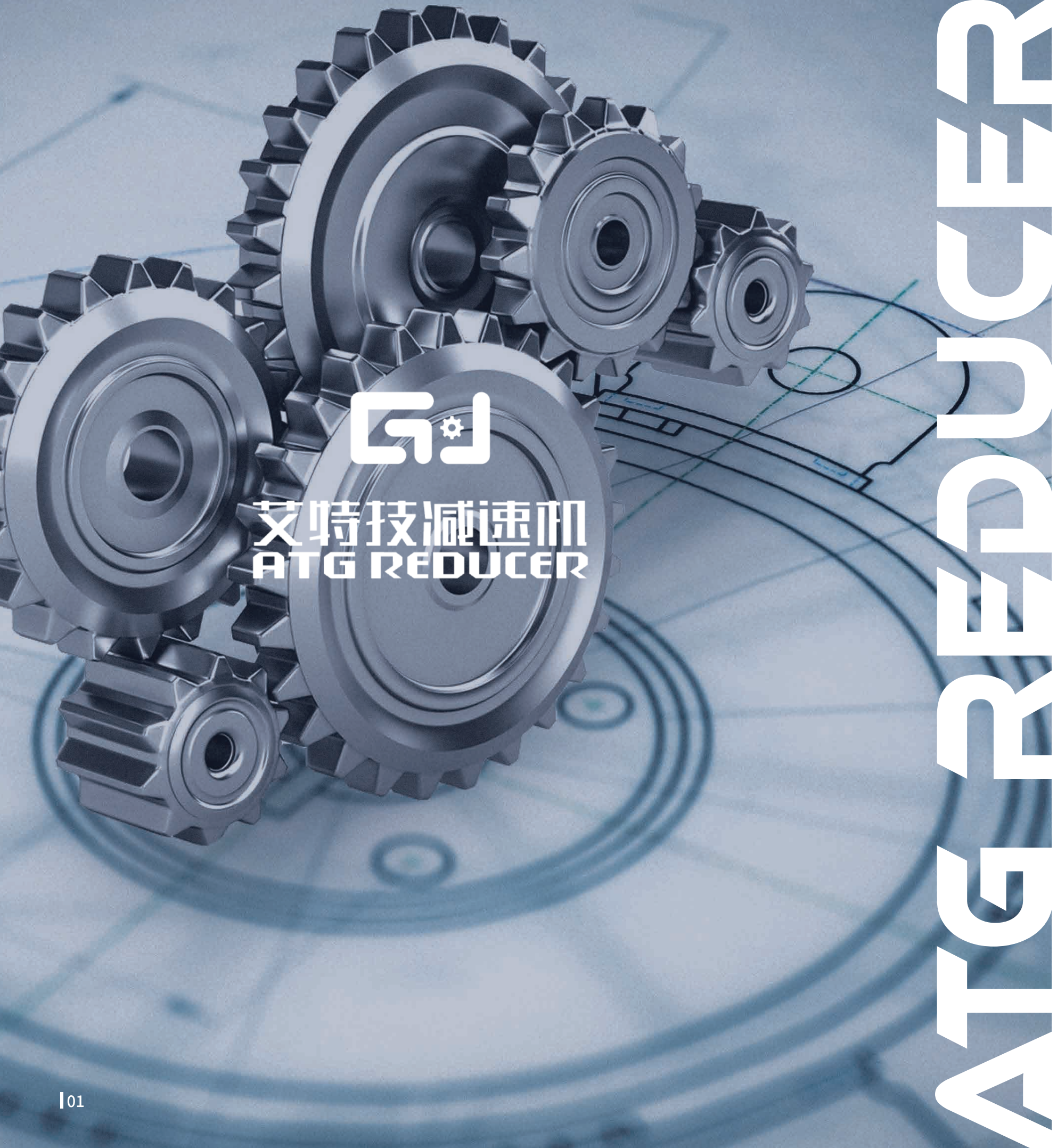
HIGH PRECISION CIRCULAR MOTION PRODUCT SERVICE PROVIDER

苏州仟德亿机电有限公司

Suzhou Qian Deyi electromechanical Co., LTD



ATG REDUCER



艾特技减速机
ATG REDUCER

Company Overview

公司概况

苏州仟德亿机电有限公司是一家专业致力于传动机械行业研发生产销售于一体的企业，公司实力强悍，系列全、品种多、范围广，满足各种不同场景的减速机使用需求。

苏州仟德亿机电有限公司成立于2013年07月31日，位于江苏省东南部，昆山市东部的花桥镇，地处苏沪交界处。东邻上海市嘉定区，南与上海市青浦区毗邻，西与吴江、苏州两市交界，北与常熟、太仓两市相连，有“江苏东大门，苏沪大陆桥”之称。312国道、沪宁高速公路、同三高速公路、京沪铁路、沪宁城际铁路、京沪高速铁路、上海轨道交通11号线穿境而过。地理位置优越，交通四通八达，方便快捷。公司经过多年兢兢业业的务实经营，已成为全球传动行业的创新参与者和引领者，经销的产品多年以来在海内外市场深获好评，产品足迹遍布全球30多个国家或地区。

Suzhou Qiandeyi Mechanical and Electrical Co., Ltd. is an enterprise specializing in R&D, production and sales in the transmission machinery industry. The company has strong strengths, complete product series, diverse and wide range to meet the needs of reducers in various situations.

Suzhou Qiandeyi Mechanical and Electrical Co., Ltd. was established on July 31, 2013. The company is located in Huaqiao Town in the southeast of Jiangsu Province and the east of Kunshan City, at the junction of Jiangsu and Shanghai. It borders Jiading District of Shanghai to the east, Qingpu District of Shanghai to the south, Wujiang and Suzhou to the west, and Changshu and Taicang to the north. It is known as the "East Gate of Jiangsu and Suzhou-Shanghai Land Bridge". National Highway 312, Shanghai-Nanjing Expressway, Tongshan Expressway, Beijing-Shanghai Railway, Shanghai-Nanjing Intercity Railway, Beijing-Shanghai High-speed Railway and Shanghai Transit Railway Line No. 1 all pass through here. The geographical location is advantageous, the traffic is convenient in all directions, convenient and fast. After years of hard work and dedication, we have become one of the companies engaged in innovation and leadership in the global transmission industry. The products we distribute have been warmly received by domestic and foreign markets for many years and have been present in more than 30 countries and regions around the world.



苏州仟德亿机电有限公司主要从事精密行星减速机、减速马达、螺旋齿轮减速机、蜗杆蜗轮减速机、双曲面齿轮减速机、机器人关节减速机等传动机械产品的生产经营。

本公司产品具有体积小、重量轻、效率高、噪声低、运行平稳、适应性强、性能安全、速比范围大、输出扭矩大、应用范围广等特点,广泛应用于自动化产业、半导体设备、冶金矿山、航空航天、医疗器械、交通运输、仓储物流、能源环保、石油化工、建筑机械、轻工纺织、仪器仪表、汽车船舶、农林设备等各种精密传动领域中。

Suzhou Qiandeyi Electromechanical Co., Ltd. is mainly engaged in the production and operation of precision planetary reducers, geared motors, helical gear reducers, worm gear reducers, hypoid gear reducers and robot joint reducers. The company's products are characterized by small size, light weight, high efficiency, low noise, smooth operation, strong adaptability, safety performance, large transmission ratio range, large output torque and wide application range. The company's products are widely used in automation, semiconductor equipment, metallurgical mining, aerospace, medical equipment, transportation, warehousing and logistics, energy and environmental protection, petrochemical industry, construction machinery, light industry and textile, measuring equipment, automobiles and ships, agricultural and forestry equipment, etc. in the field of precision transmission.

企业经营理念 Business philosophy

1、追求完美品质，高超效率，精致服务，满足顾客需要；
1. Pursue perfect quality, high efficiency, exquisite service and meet customer needs;

2、诚信立本、兼容并蓄、扬长弃短、终生学习、互利共赢；
2. Based on integrity, tolerance, promote the long term, abandon the short term, lifelong learning, win-win;

3、拓展国际合作，发挥团队精神，不断创新，迈向卓越。
3. Expand international cooperation, maximize team spirit, continue to innovate and aim for excellence.

业务目标 BUSINESS GOAL

以“同仁同心、经营用心、顾客安心”为经营目标，进而达到顾客满意的品质目标。
With the business goal of "working together, working with sincerity to bring peace of mind to customers", we strive to achieve the quality goal of customer satisfaction.

企业使命 Corporate mission

- 1、发现需求，引导欲望，成人之事，成众之业；
- 2、以顾客为中心，以协力厂商为伙伴，满足挑剔，超越需求；
- 3、创造利润，改善员工生活。
1. Drive demand, become successful ;
2. Focus on customers and use third-party manufacturers as partners to satisfy picky and exceed needs;
3. Create profits and improve employees' lives.

企业愿景 Corporate Vision

我们致力于成为卓越的传动机械制造供应商，通过持续不断的创新和完善，实现客户、员工、股东共同满意的美好目标，推动成为传动行业领域最有价值的公司，最终成为全球知名品牌。
We are committed to becoming an outstanding transmission machinery manufacturing supplier. Through continuous innovation and improvement, we will achieve the goal of satisfying customers, employees, and shareholders, and promote ourselves to become the most valuable company in the transmission industry, and eventually become a well-known global brand.



汽车行业



工具机/配件



自动化



航空航天



石油开采



风力发电

应用行业

精密行星减速机 高精度圆周运动产品服务商

Precision planetary reducer
High Precision Circular Motion Product Service Provider



POSITION 企业定位

Catalogue

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Corporate Environment

公司环境



公司拥有成熟全面的分度转台技术,可以根据客户需求进行开发和生产,可编程伺服转台、机械式分度转台等,产品覆盖各种行业:金属成型、汽车、航空、包装、建筑、丝移印、机床等。

The company has a complete and comprehensive indexing turntable technology surface, can be developed and produced according to customer needs, including programmable servo turntable, mechanical indexing turntable, etc. Products cover various industries: metal forming, automobile, aviation, packaging, construction, wire Pad printing, machine tools, etc.



Product show

产品组合展示



Quality assurance

质量保障

技术创新

以客户需求为目标，
为客户提供高质高量的产品

Technological innovation aims at
customer needs and provides
customers with high-quality and
large-quantity products

研发团队

拥有一批掌握
业界高端技术
的科技人才

The R&D team has a group
of scientific and techno-
logical talents who have
mastered the high-end
technology in the
industry.

合作共赢

产品多年来
外销市场，深
受好评

Win-win cooperation:
products have been sold in
the export market for many
years and have been well
received.

质量认证

通过ISO9002认证，
ISO9001认证欧洲CE认证

Quality Certification Obtained
ISO9002 certification,
ISO9001 certification,
European CE certification

高效供应

不断提高产品
性能，高效为
客户提供广泛
的技术资源

Continuously
improve product
performance and
effectively provide
customers with a
variety of technical
resources

管理经验

借鉴先进管
理经验，不断
自我完善

Management
experience: learn
advanced manage-
ment experience and
continuously
improve yourself

质量第一
顾客满意

Contents

目录索引

GT
Series



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WT
Series



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KT
Series



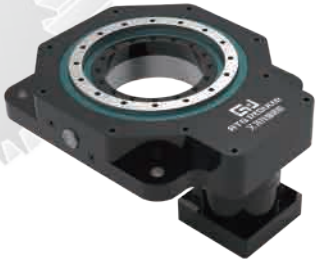
PAGE 36

YT
Series



PAGE 44

PT
Series



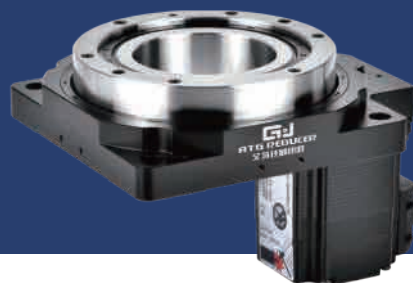
PAGE 50

DT
Series



PAGE 54

GT Series



ATG REDUCER

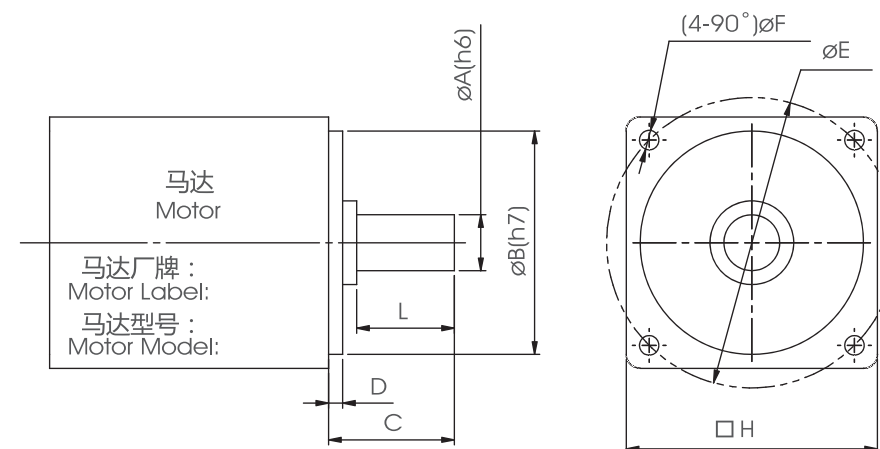


订货型号表示

Ordering Representation

GT	-60	-C	-5	-	Z	-
系列 type	型号 specification	配置 configuration	速比 speed		选配 matching	输入电机 input electric motor
GT	60 85 110 130 170 200 280 370 450 680	交叉滚子轴承 crossed roller bearing	1:5 1:10 1:18 再大速 比可配 减速机		无:标准 no standard Z:直角标注(转角嫁接) Z: right angle head (corner joint) L:直角左(转角嫁接) L: right angle (corner joint) R:直角右(转角嫁接) R: left angle (corner joint) D:直角整下(转角嫁接) D: right angle adjustment (corner joint) ZD:直角标准(转角直配) ZD: right angle standard (straight angle joint) LD:直角左(转角直配) LD: right angle (straight to the corner) RD:直角右(转角直配) RD: left angle (straight to the corner) DD:直角正下(转角直配) DD: straight down to the right angle (straight around the corner) RS:步进电机闭/开环 RS: stepper motor open/close loop TS:配行星减速机 TS: equipped with planetary reducer	输入电机选配 客户提供 Input motor option provided by customer

● 客户填写资料 Customer fills in information

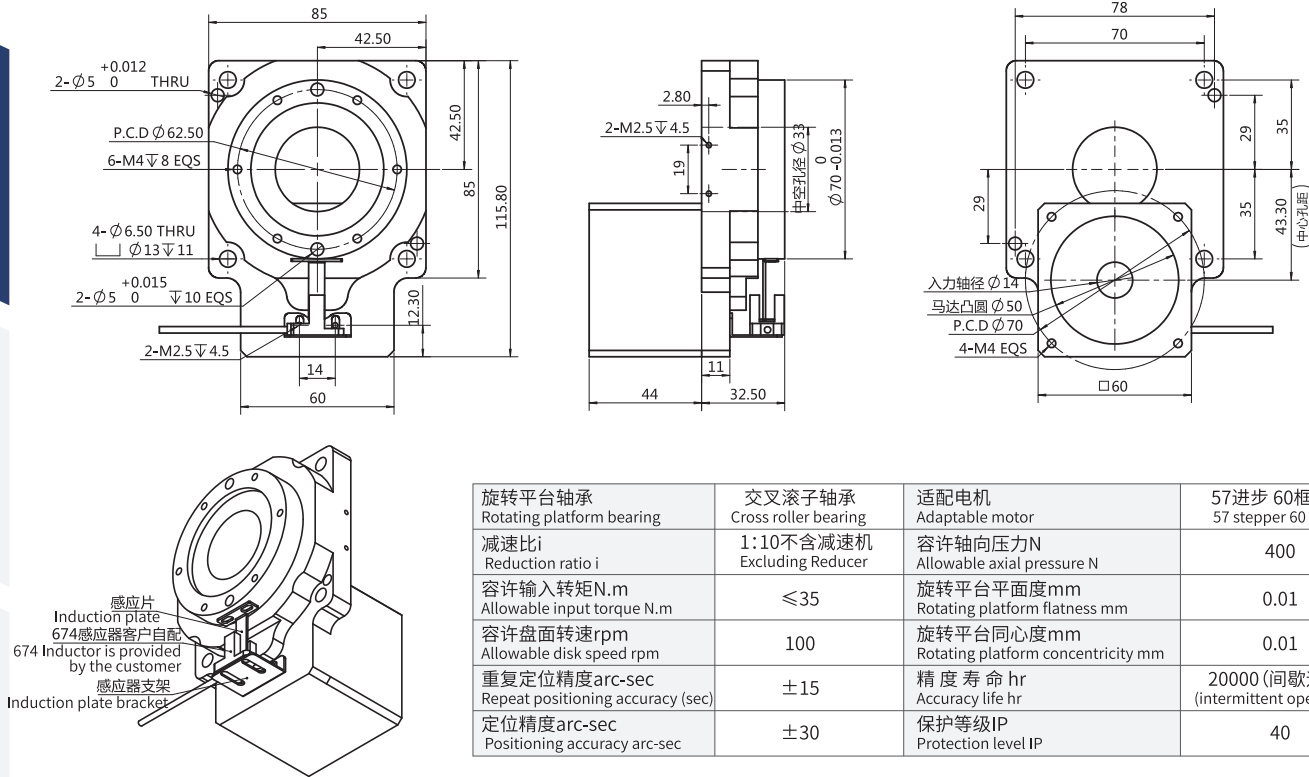


● 规格 Specification

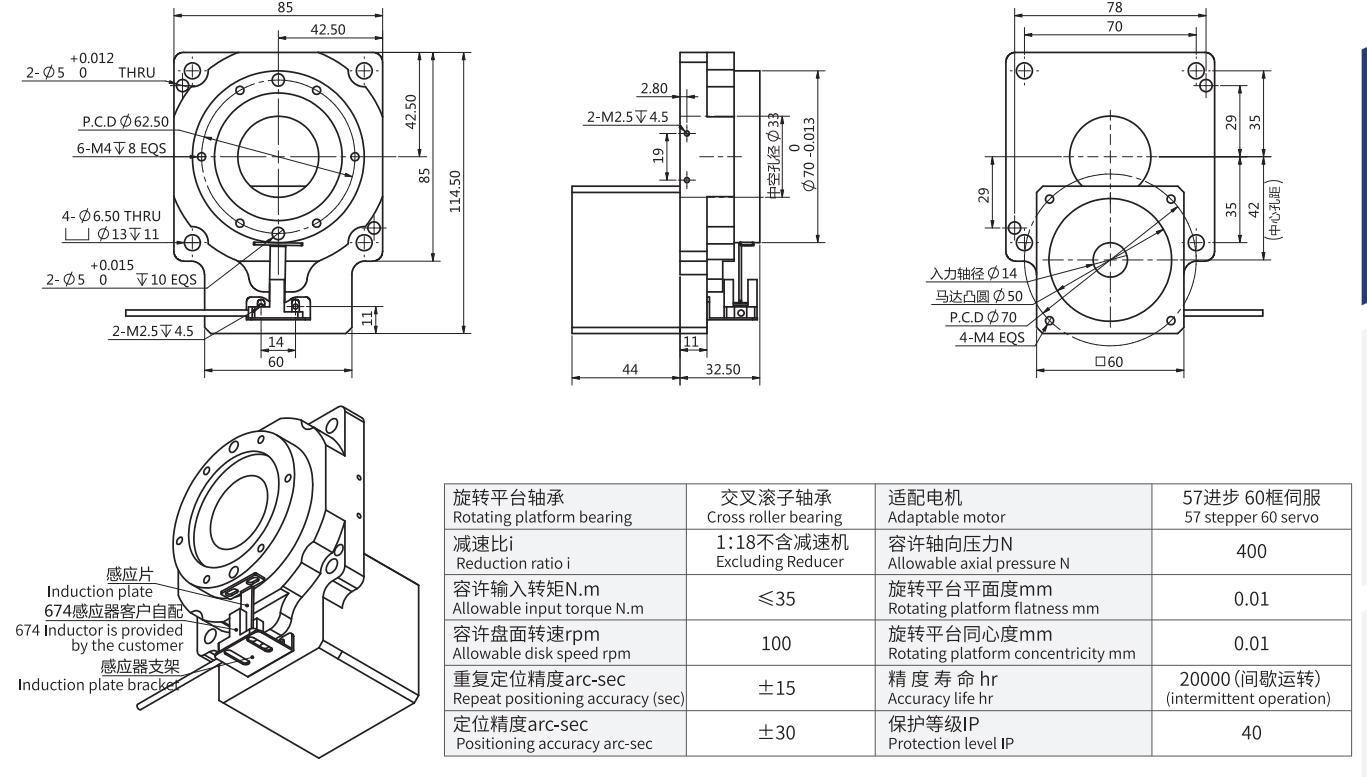
Motor Shaft Dia.	Flange Dia.	Motor Shaft Length	Flange Height	P.C.D of Bore	Bore Dia.	Motor Flange Square	Actual Length of Motor Shaft	Backlash
马达轴外径	马达凸缘外径	马达轴长度	马达凸缘高度	螺丝孔中心距	螺丝孔直径	马达面尺寸	马达轴有效长	要求背隙
$\phi A(h6)$	$\phi B(h7)$	C	D	ϕE	ϕF	$\square H$	L	P0/P1/P2

* 以上技术参数仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。
The above specifications are for reference only. The actual technical parameters and dimensions will be issued based on the data provided by the customer.

GT85-C-10

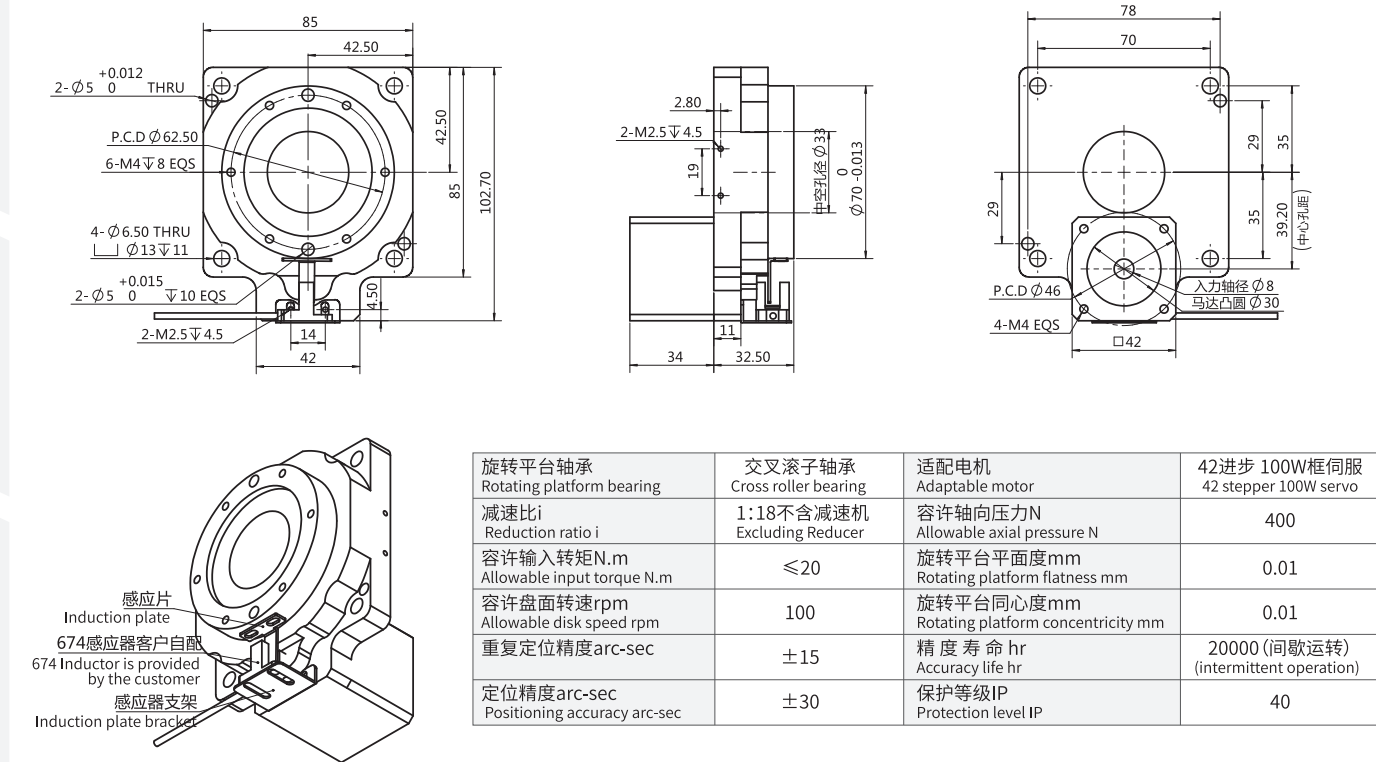


GT85-C-18

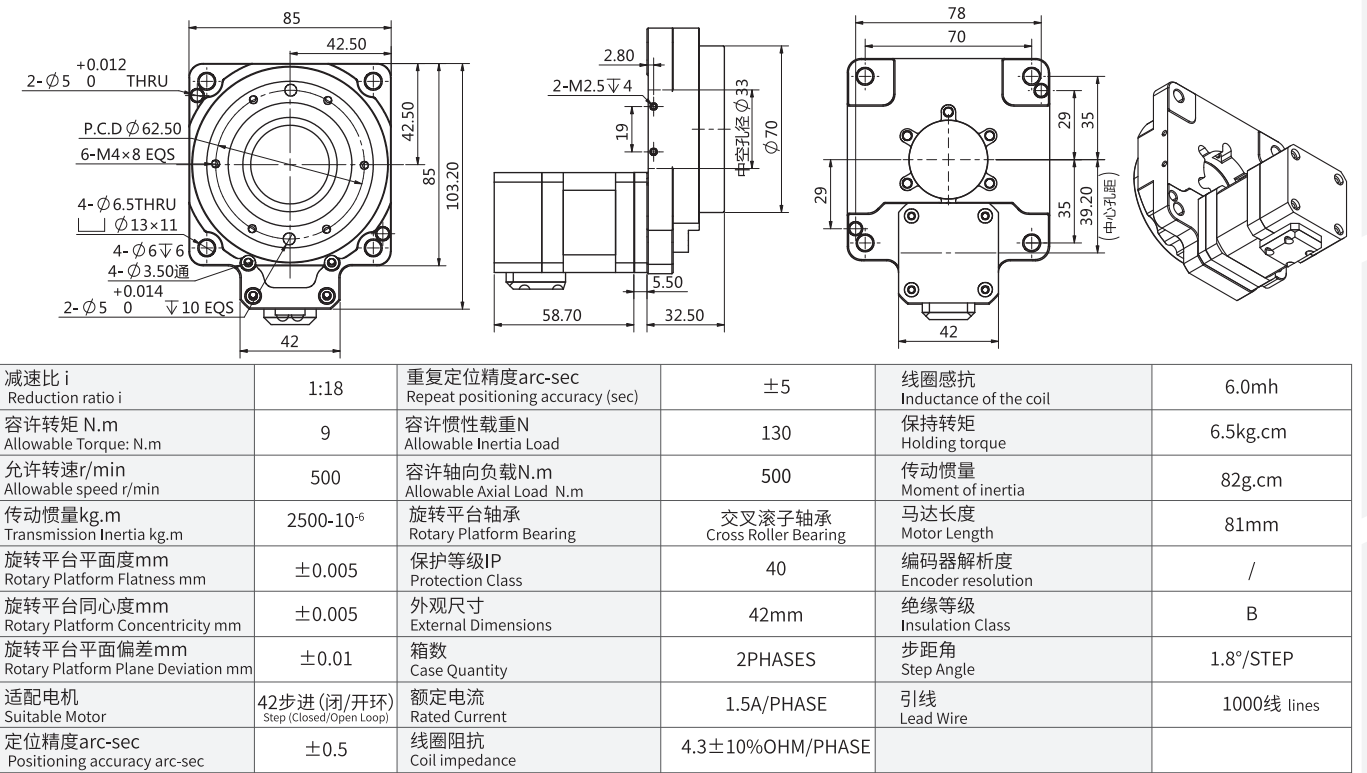


温馨提示：盘面输出转速高于100rpm/min.请订货前说明
Warm reminder: The disk output speed is higher than 100rpm/min. Please indicate in advance before ordering.

GT85-C-18

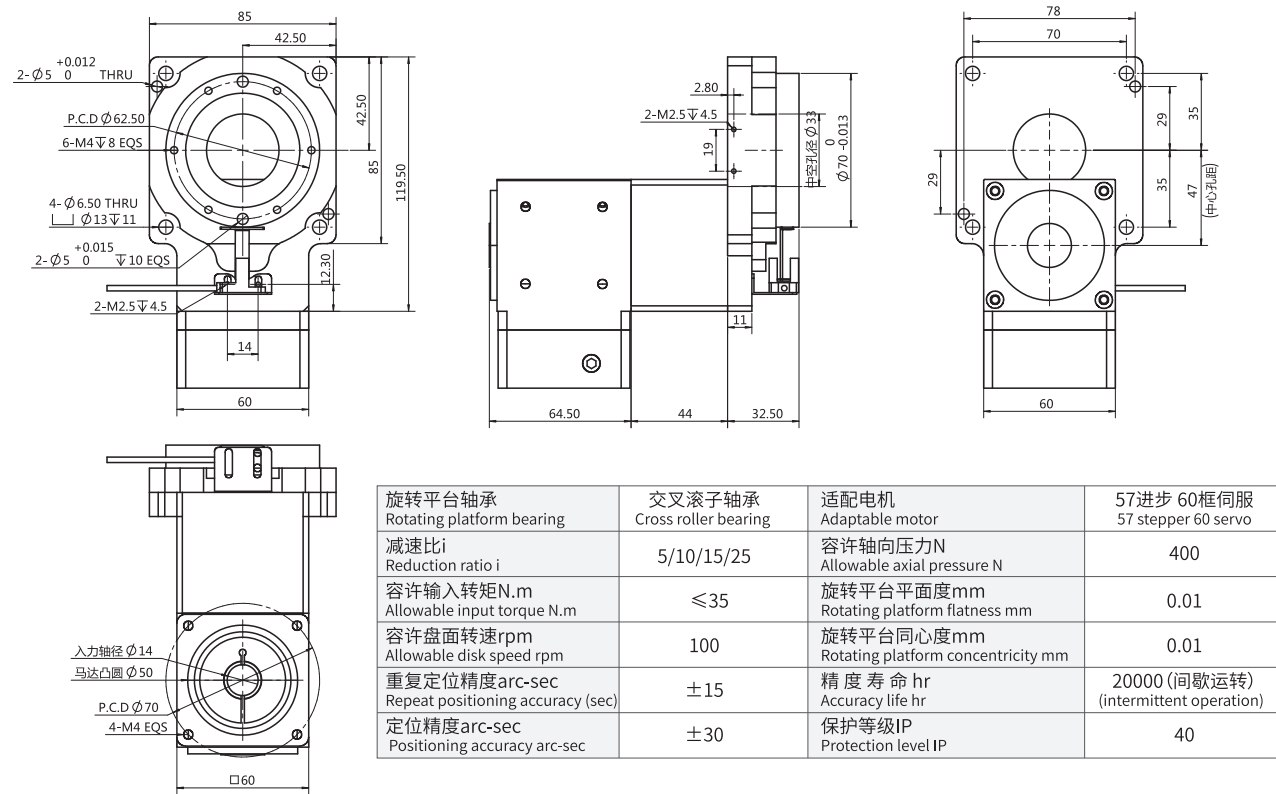


GT85-C-18-RS

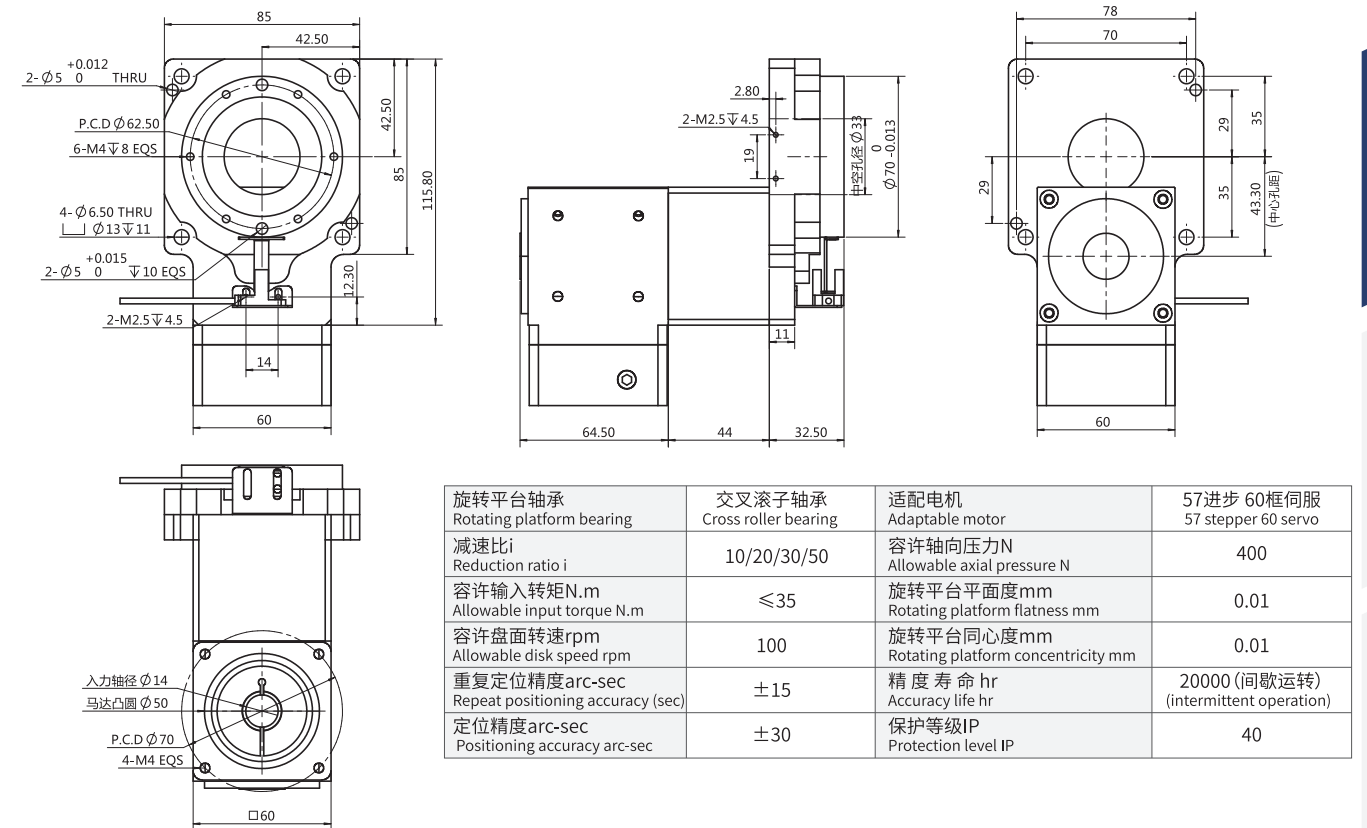


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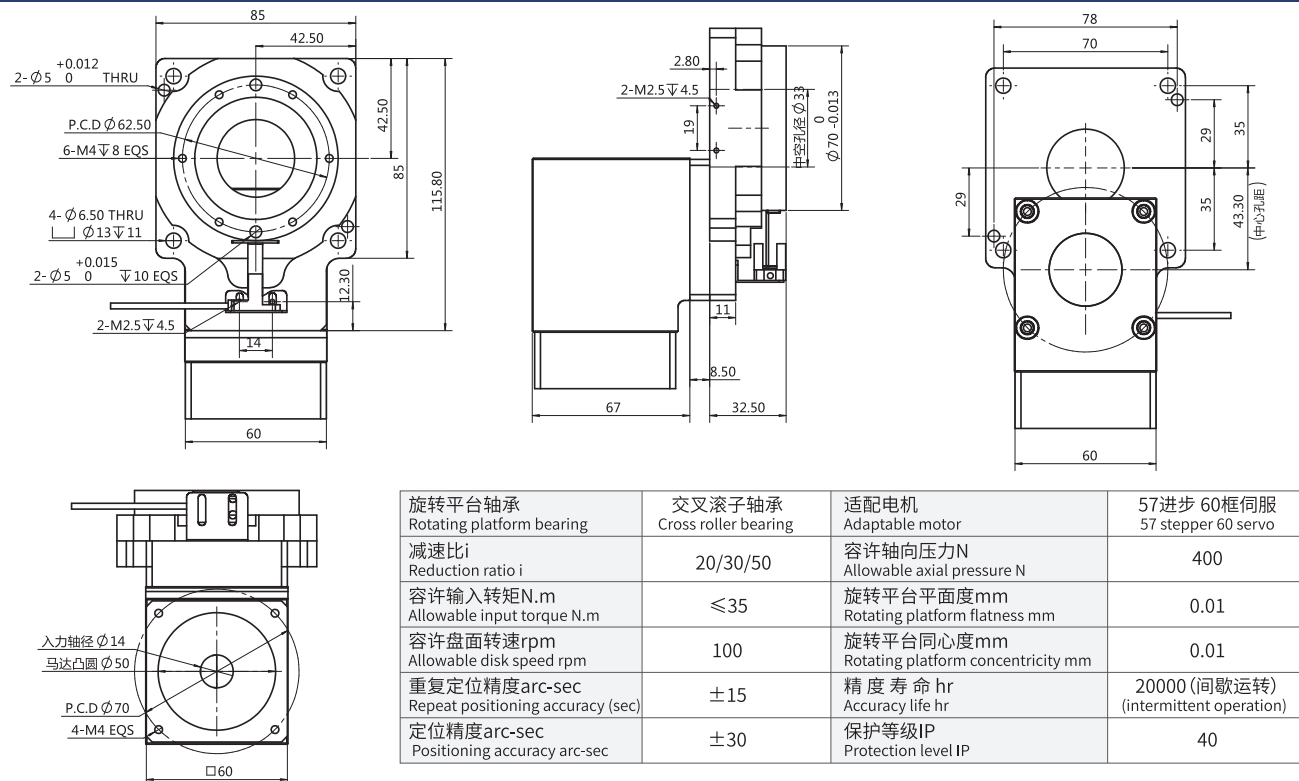
GT85-C-5-Z



GT85-C-10-Z

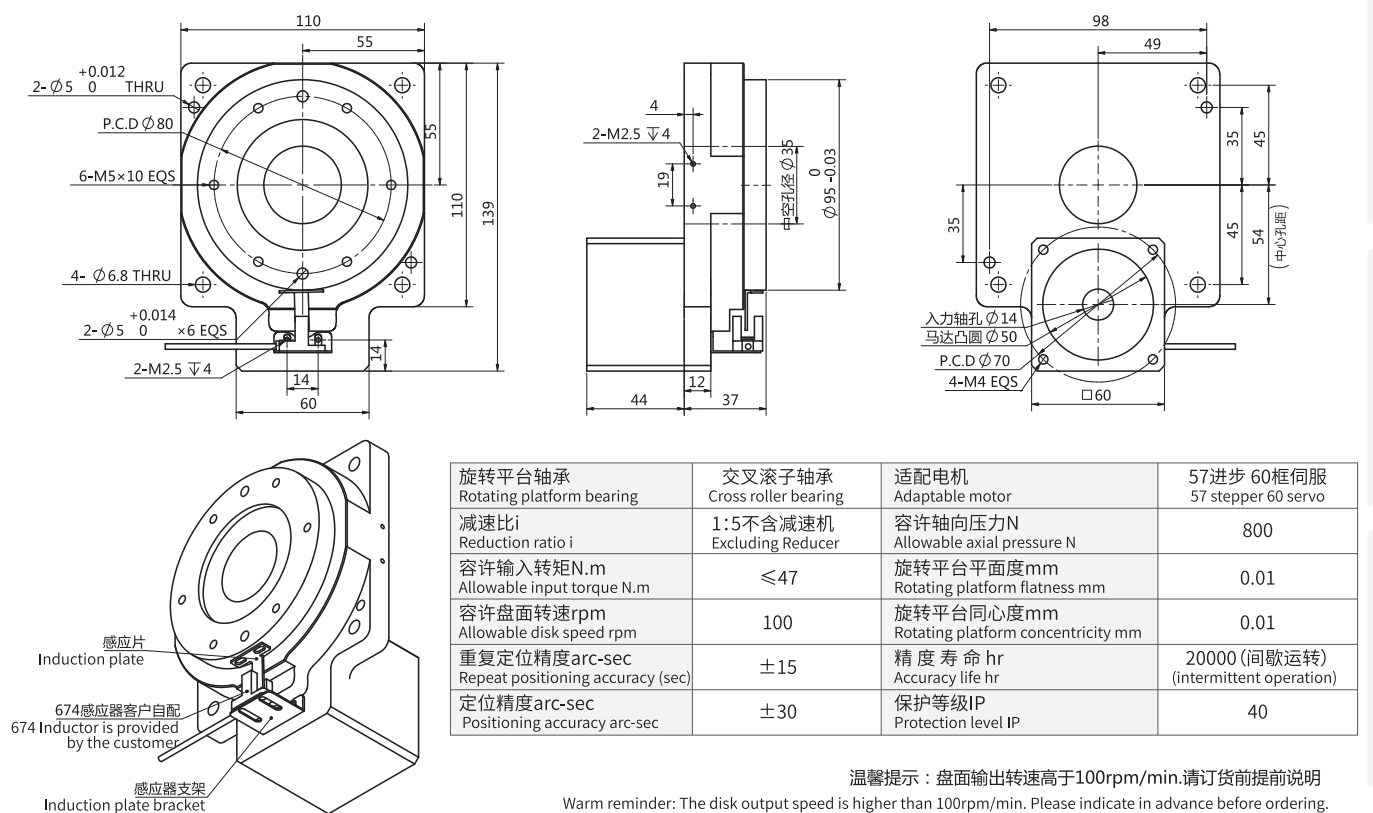


GT85-C-10-ZD



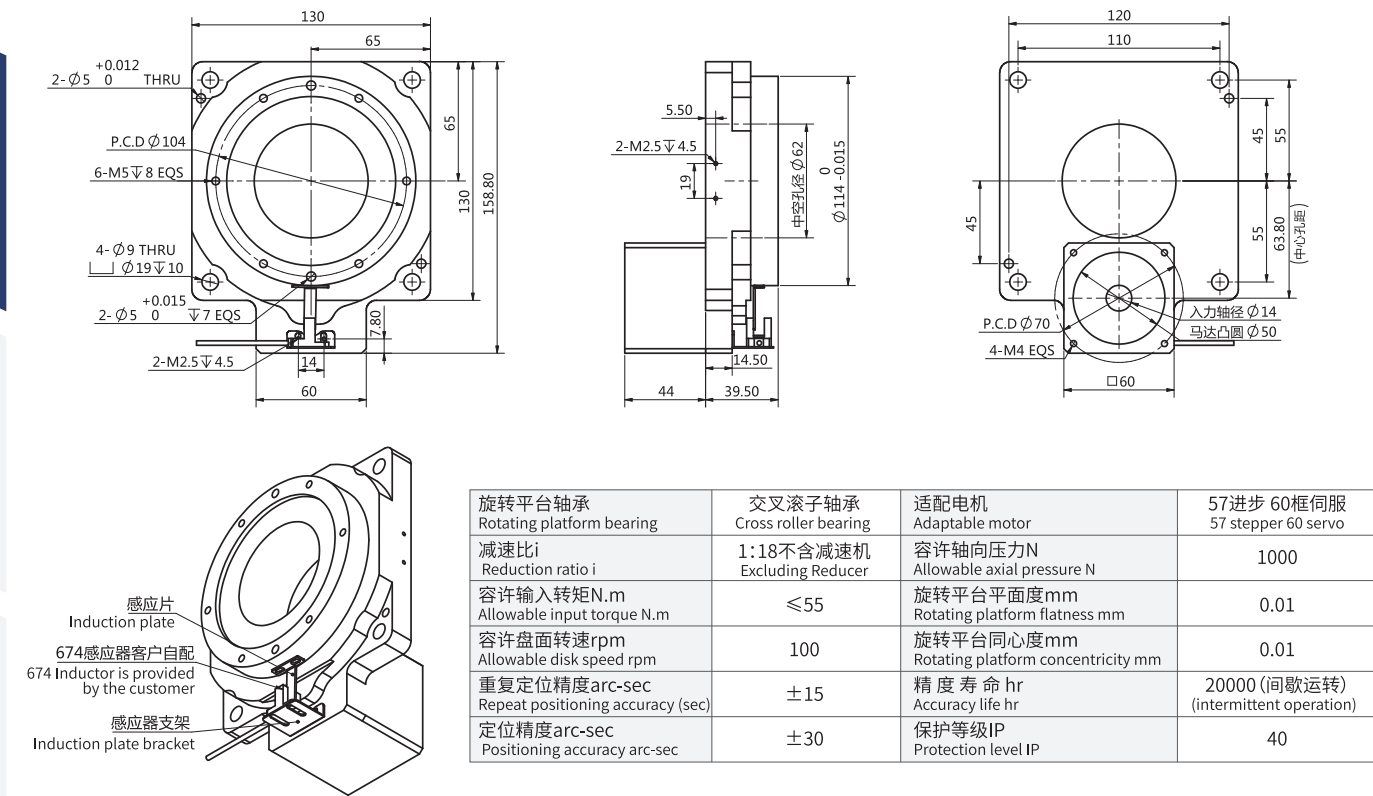
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GT110-C-5

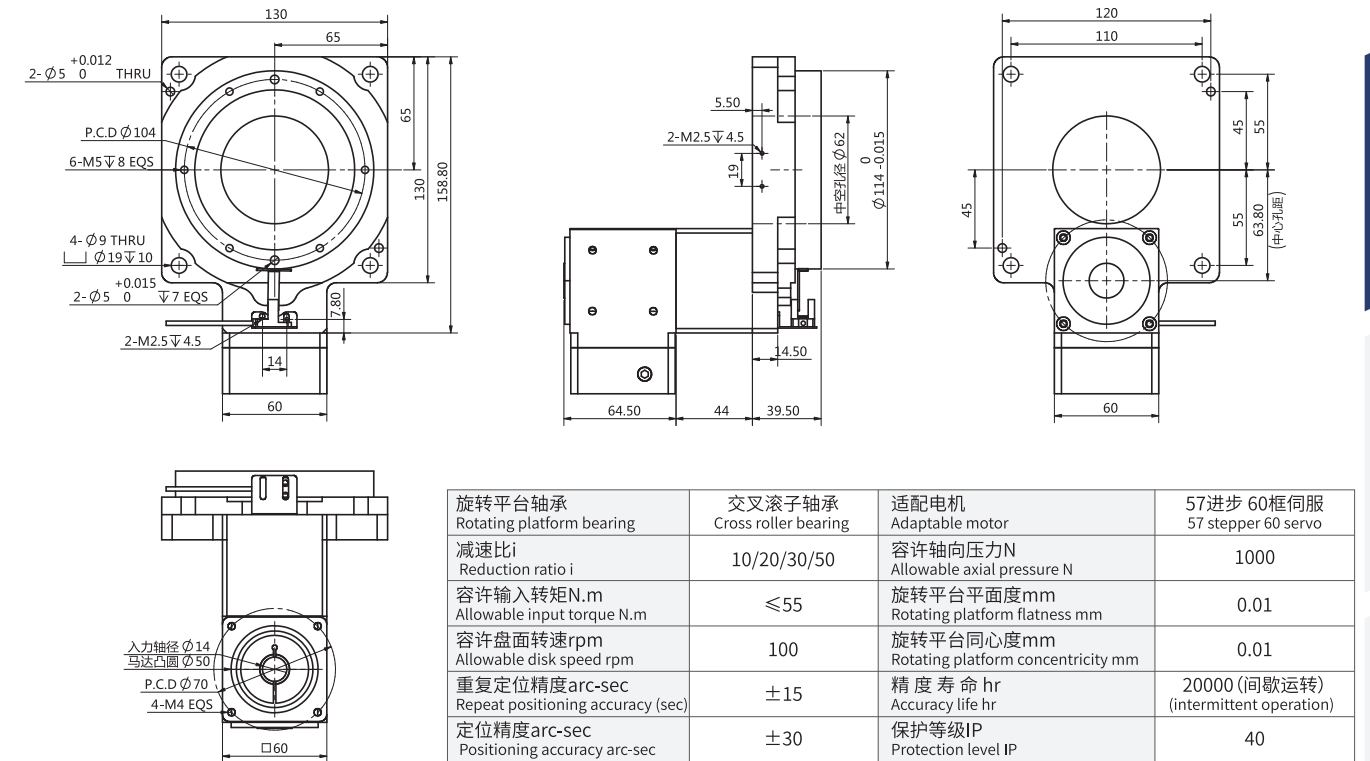


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Warm reminder: The disk output speed is higher than 100rpm/min. Please indicate in advance before ordering.

GT130-C-18

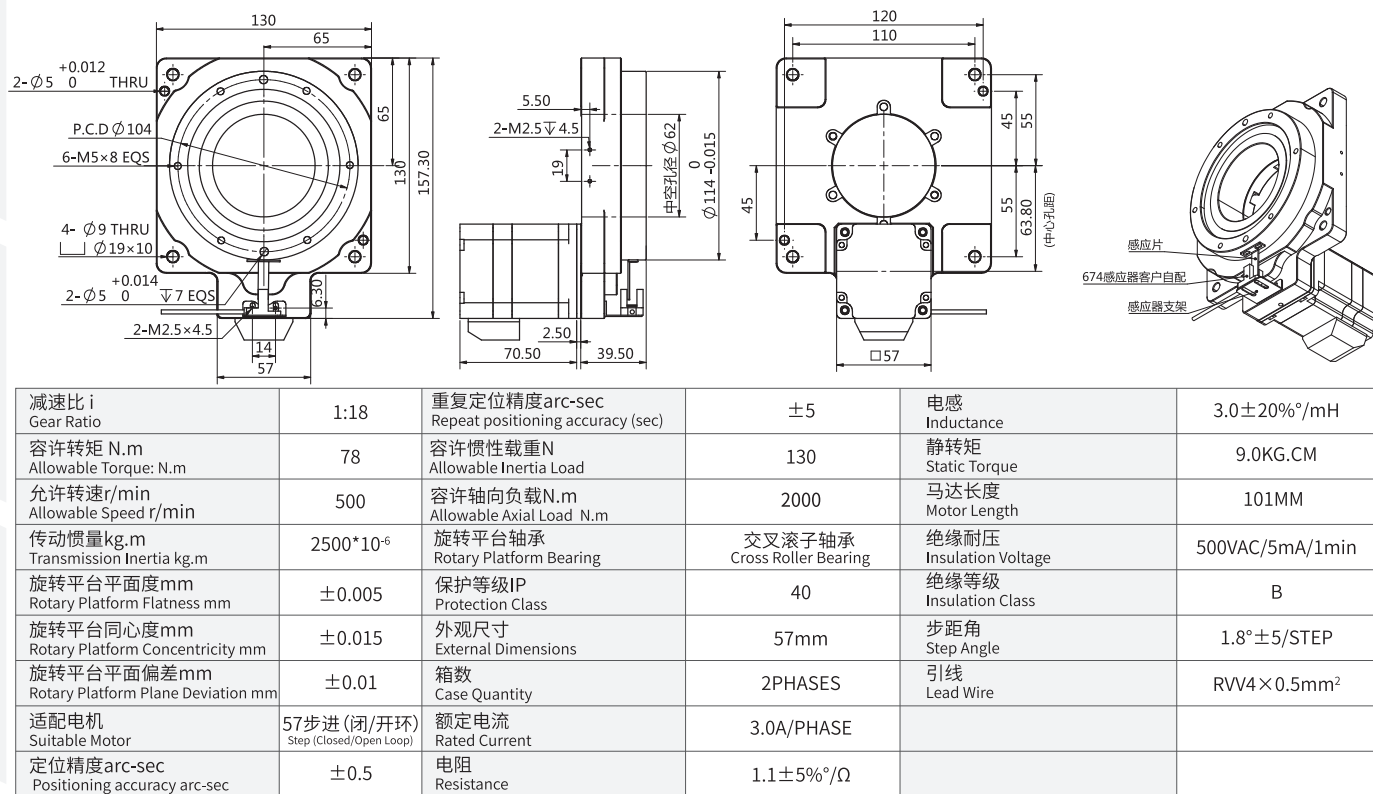


GT130-C-10-Z

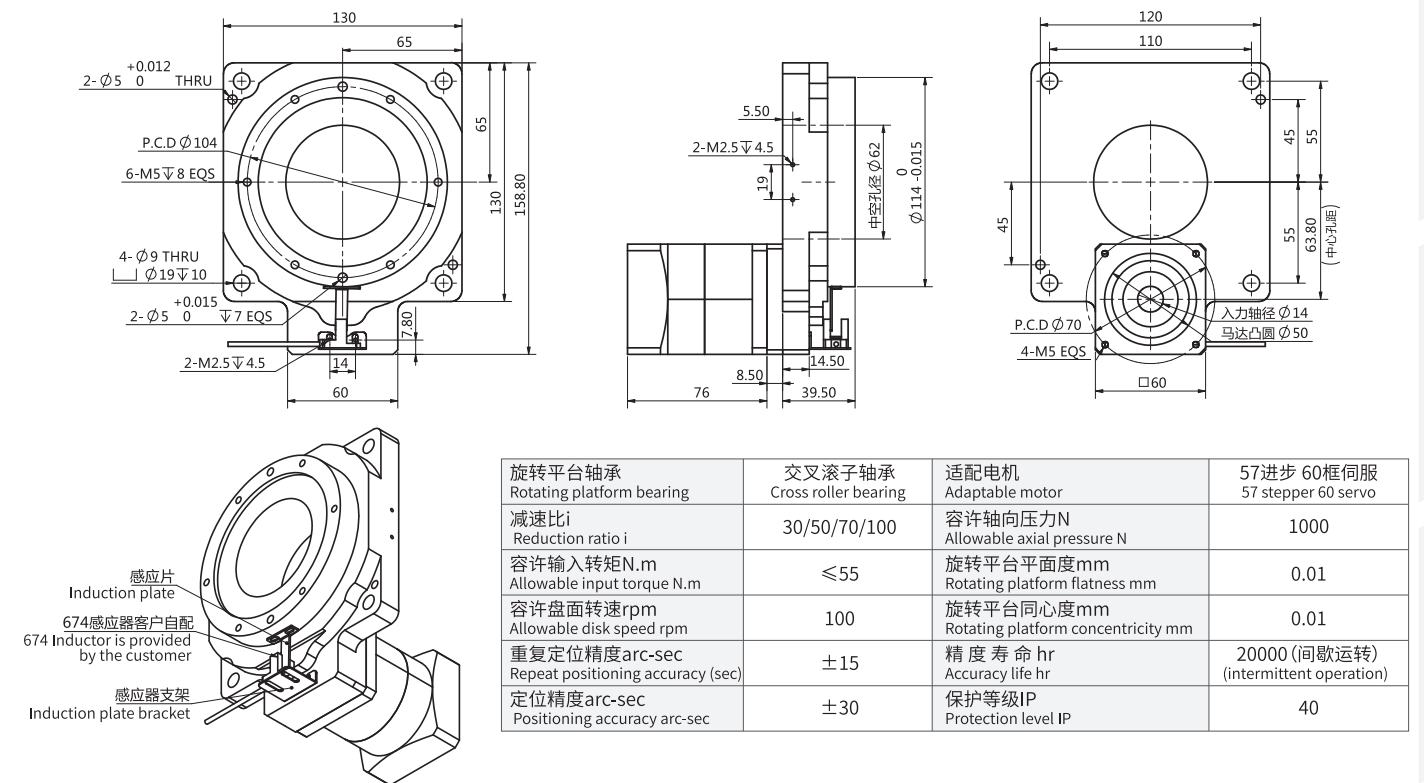


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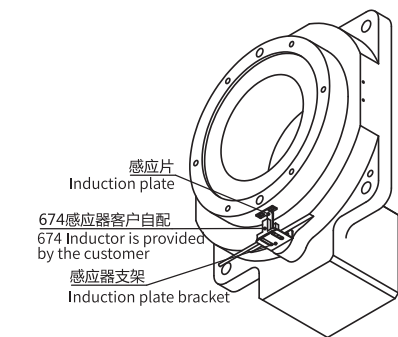
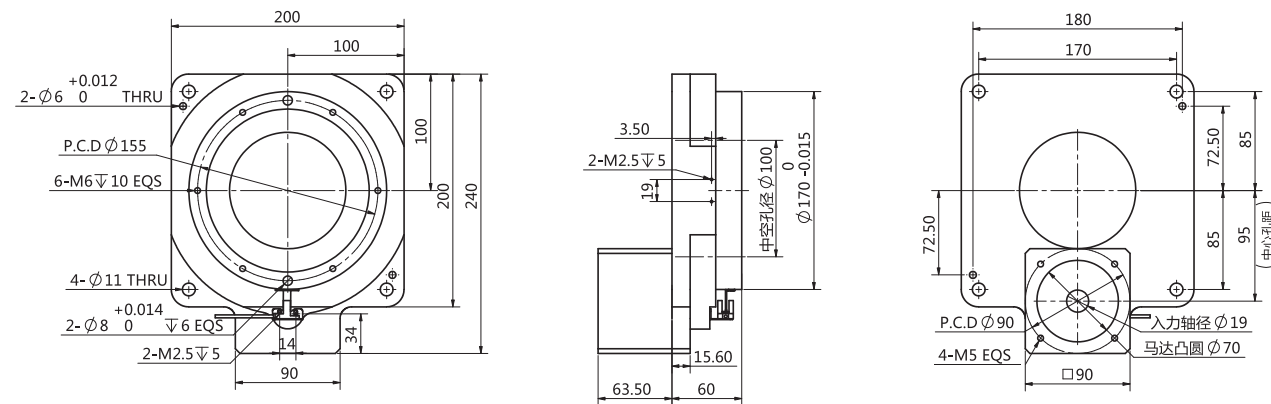
GT130-C-18-RS



GT130-C-30-TS



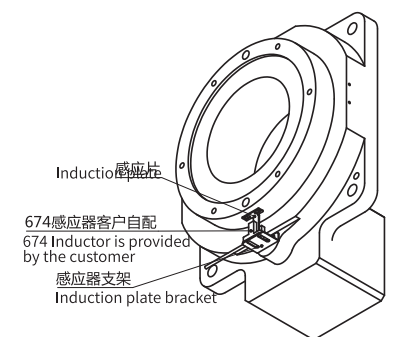
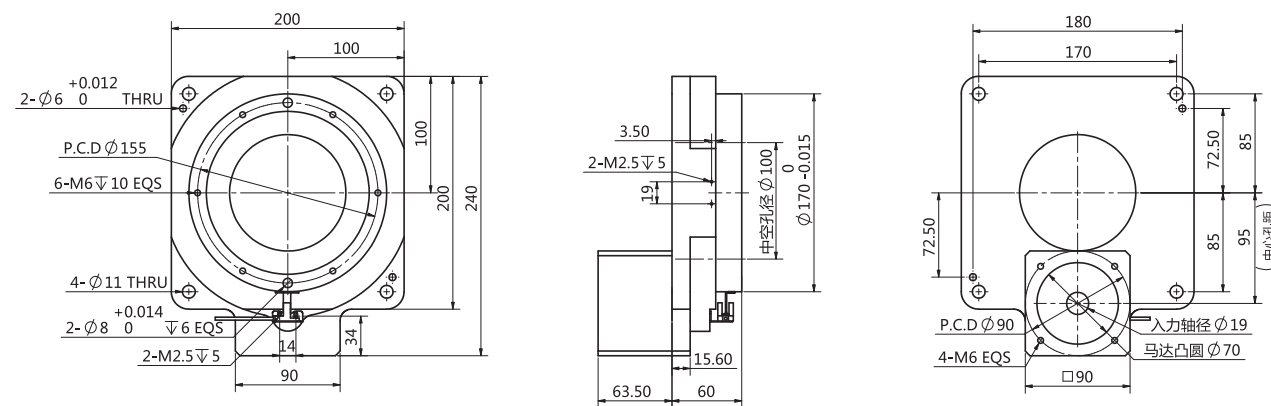
GT200-C-10



旋转平台轴承 Rotating platform bearing	交叉滚子轴承 Cross roller bearing	适配电机 Adaptable motor	86步进 80框伺服 86 stepper 80 servo
减速比i Reduction ratio i	1:10不含减速机 Excluding Reducer	容许轴向压力N Allowable axial pressure N	2000
容许输入转矩N.m Allowable input torque N.m	≤ 90	旋转平台平面度mm Rotating platform flatness mm	0.01
容许盘面转速rpm Allowable disk speed rpm	100	旋转平台同心度mm Rotating platform concentricity mm	0.01
重复定位精度arc-sec Repeat positioning accuracy (sec)	± 15	精度寿命hr Accuracy life hr	20000 (间歇运转) (intermittent operation)
定位精度arc-sec Positioning accuracy arc-sec	± 30	保护等级IP Protection level IP	40

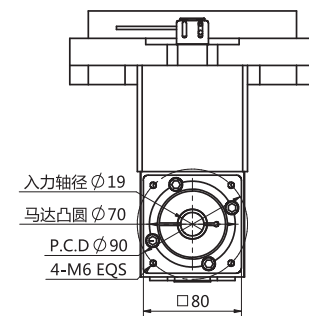
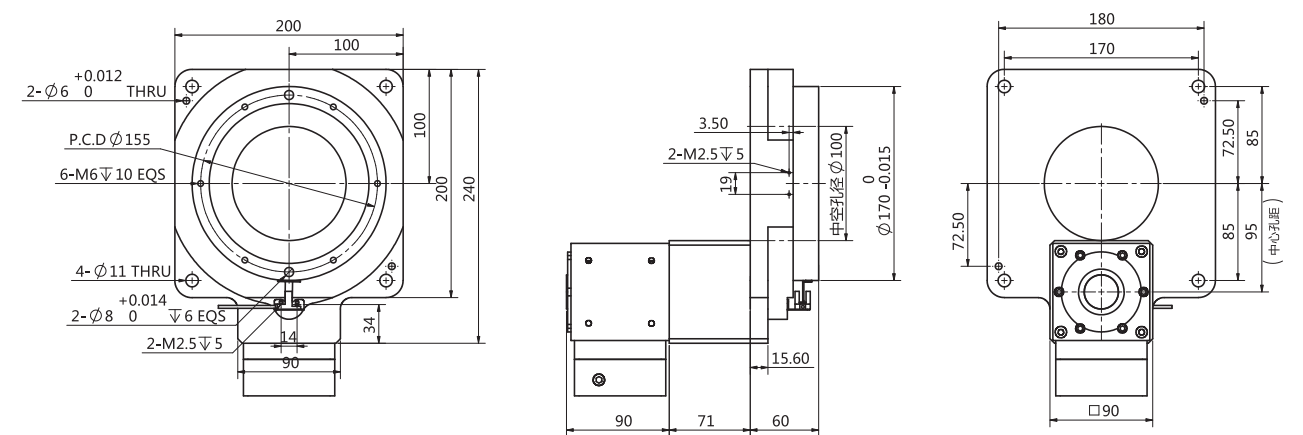
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Warm reminder: The disk output speed is higher than 100rpm/min. Please indicate in advance before ordering.

GT200-C-18



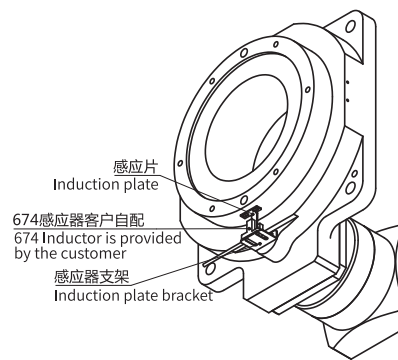
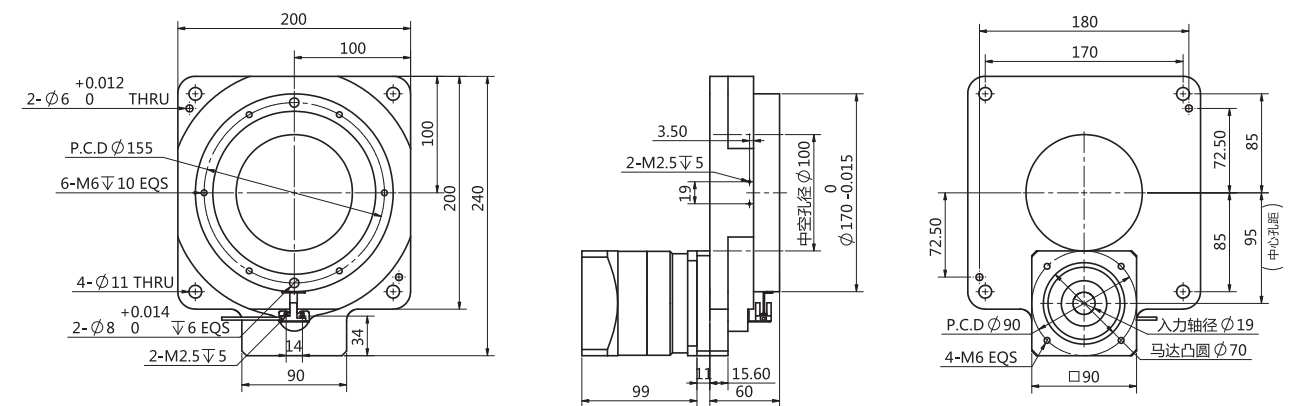
旋转平台轴承 Rotating platform bearing	交叉滚子轴承 Cross roller bearing	适配电机 Adaptable motor	86步进 80框伺服 86 stepper 80 servo
减速比i Reduction ratio i	1:18不含减速机 Excluding Reducer	容许轴向压力N Allowable axial pressure N	2000
容许输入转矩N.m Allowable input torque N.m	≤ 72	旋转平台平面度mm Rotating platform flatness mm	0.01
容许盘面转速rpm Allowable disk speed rpm	100	旋转平台同心度mm Rotating platform concentricity mm	0.01
重复定位精度arc-sec Repeat positioning accuracy (sec)	± 15	精度寿命hr Accuracy life hr	20000 (间歇运转) (intermittent operation)
定位精度arc-sec Positioning accuracy arc-sec	± 30	保护等级IP Protection level IP	40

GT200-C-10-Z



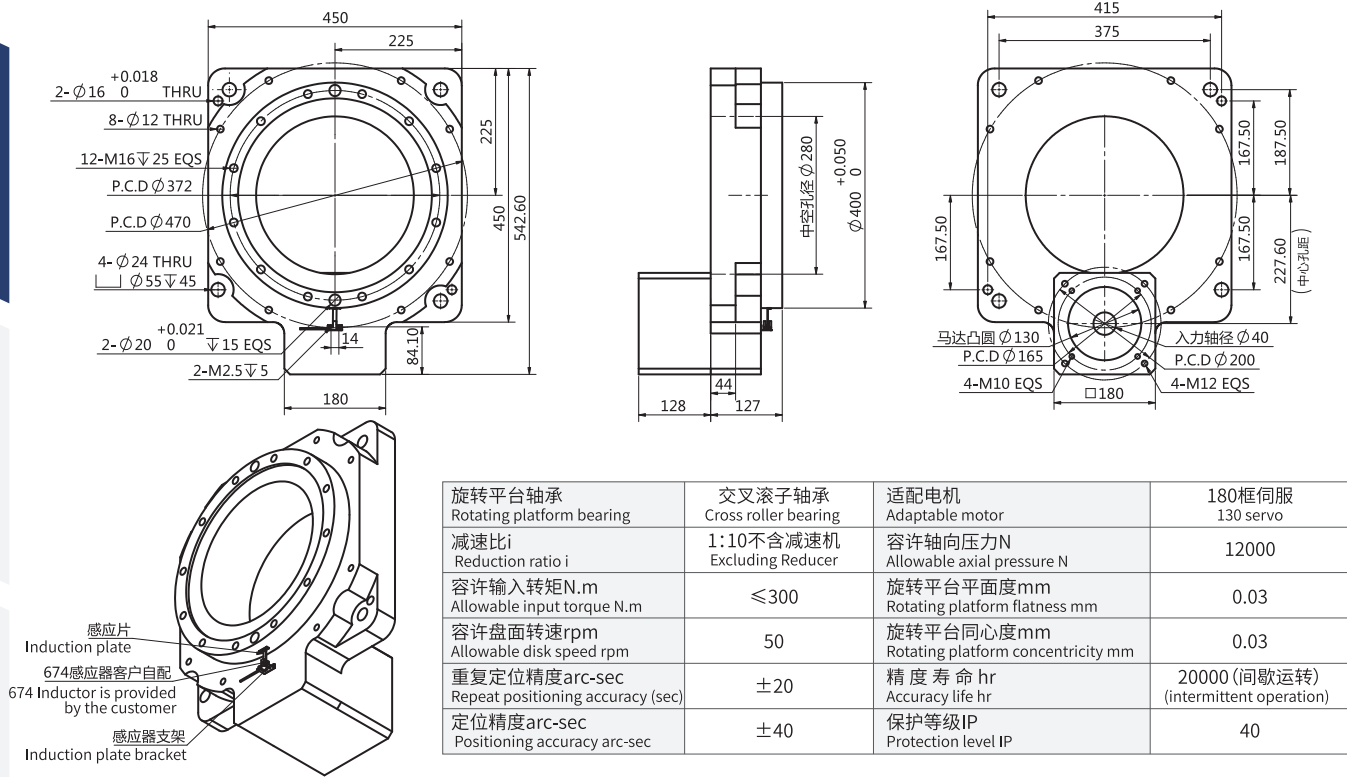
旋转平台轴承 Rotating platform bearing	交叉滚子轴承 Cross roller bearing	适配电机 Adaptable motor	86步进 80框伺服 86 stepper 80 servo
减速比i Reduction ratio i	10/20/30/50	容许轴向压力N Allowable axial pressure N	2000
容许输入转矩N.m Allowable input torque N.m	≤ 60	旋转平台平面度mm Rotating platform flatness mm	0.01
容许盘面转速rpm Allowable disk speed rpm	100	旋转平台同心度mm Rotating platform concentricity mm	0.01
重复定位精度arc-sec Repeat positioning accuracy (sec)	± 15	精度寿命hr Accuracy life hr	20000 (间歇运转) (intermittent operation)
定位精度arc-sec Positioning accuracy arc-sec	± 30	保护等级IP Protection level IP	40

GT200-C-30-TS

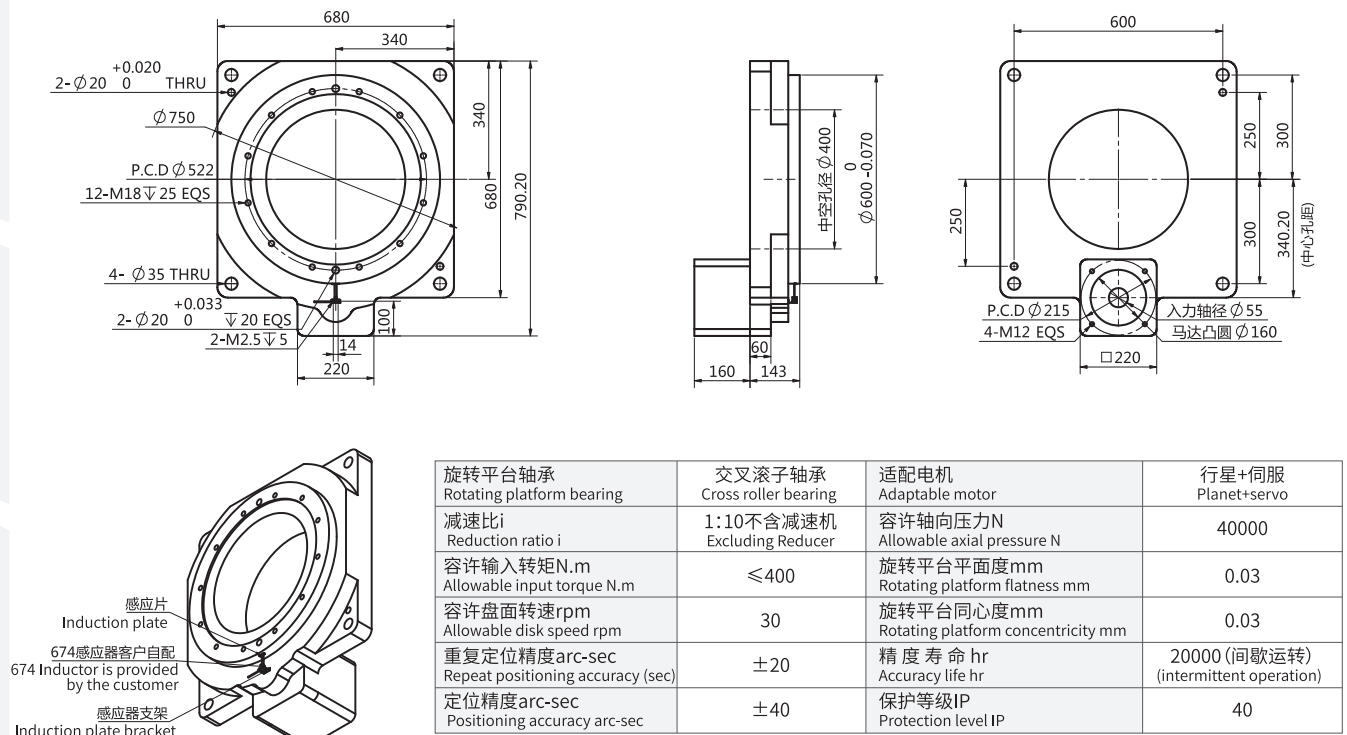


旋转平台轴承 Rotating platform bearing	交叉滚子轴承 Cross roller bearing	适配电机 Adaptable motor	86步进 80框伺服 86 stepper 80 servo
减速比i Reduction ratio i	30/50/70/100	容许轴向压力N Allowable axial pressure N	2000
容许输入转矩N.m Allowable input torque N.m	≤ 90	旋转平台平面度mm Rotating platform flatness mm	0.01
容许盘面转速rpm Allowable disk speed rpm	100	旋转平台同心度mm Rotating platform concentricity mm	0.01
重复定位精度arc-sec Repeat positioning accuracy (sec)	± 15	精度寿命hr Accuracy life hr	20000 (间歇运转) (intermittent operation)
定位精度arc-sec Positioning accuracy arc-sec	± 30	保护等级IP Protection level IP	40

GT450-C-10



GT680-C-10



温馨提示：盘面输出转速高于100rpm/min.请订货前说明
Warm reminder: The disk output speed is higher than 100rpm/min. Please indicate in advance before ordering.

WT Series



订货型号表示

Ordering Representation

WT

系列
type

WT

-

85-60

型号
specification

85
130
200

-

GT85-C-5+GT60-C-5

选速
Speed selection

四轴选大 Four-axis selection	五轴选小 Five-axis selection
GT85-C-5	GT60-C-5
GT85-C-10	GT60-C-10
GT130-C-10	GT85-C-5
GT130-C-18	GT85-C-10
GT200-C-10	GT130-C-10
GT200-C-18	GT130-C-18

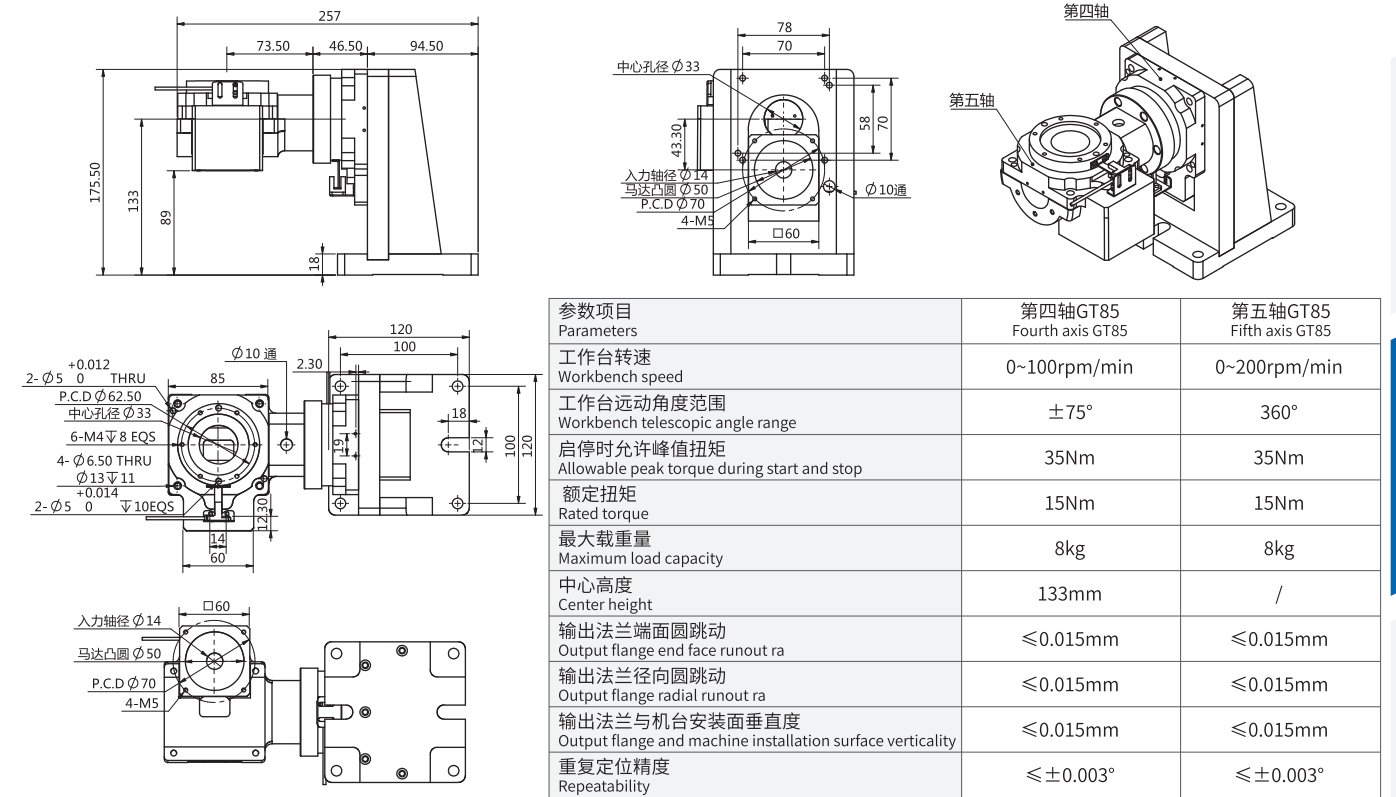
-

电机安装孔距
motor mounting hole distance

四轴输入 安装孔距 或提供型号	五轴输入 安装孔距 或提供型号
four-axis input installation hole distance, installa- tion hole distance or provide model or provide model.	five-axis input installation hole distance, installa- tion hole distance or provide model or provide model.



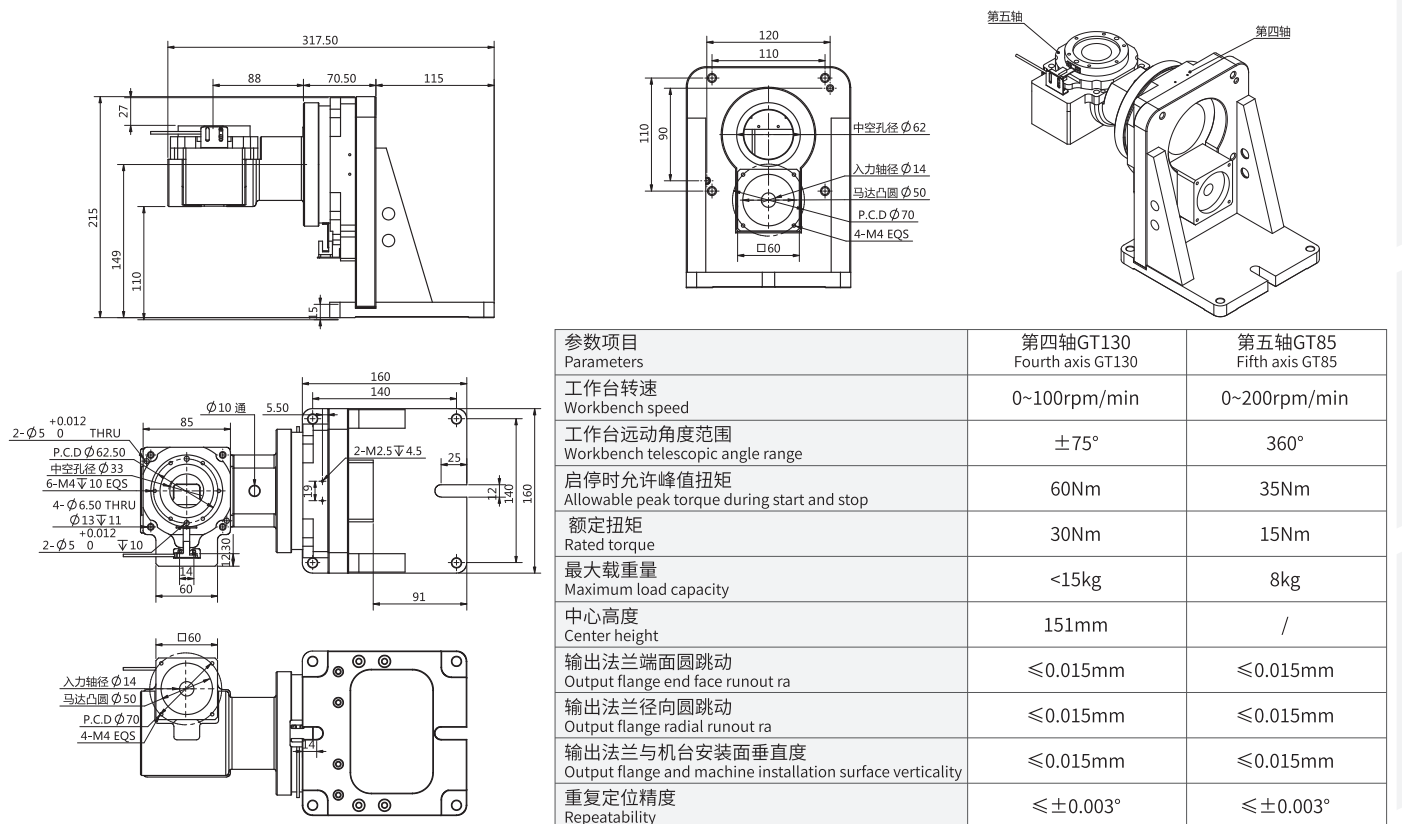
WT85-85



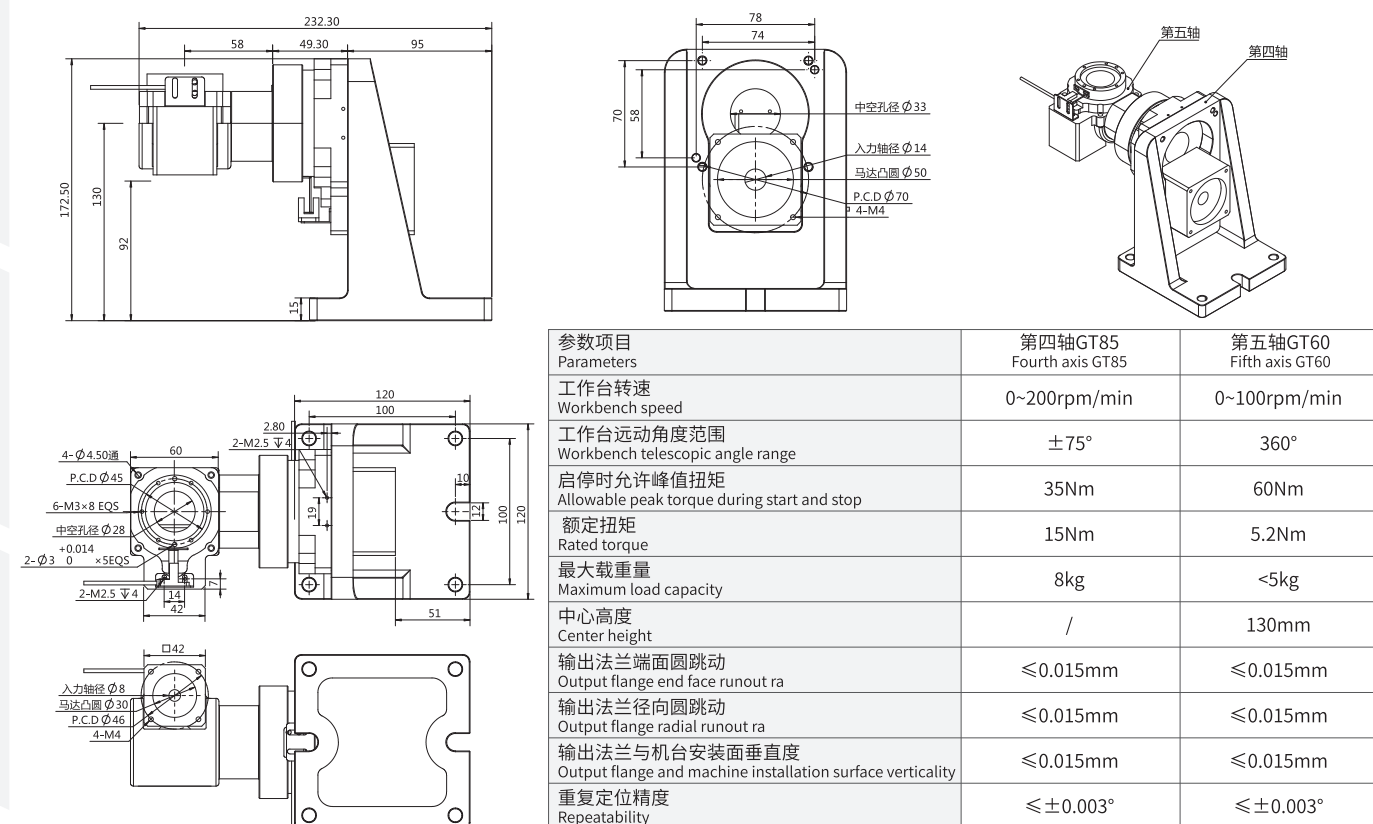
温馨提示：盘面输出转速高于100rpm/min.请订货前说明

Warm reminder: The disk output speed is higher than 100rpm/min. Please indicate in advance before ordering.

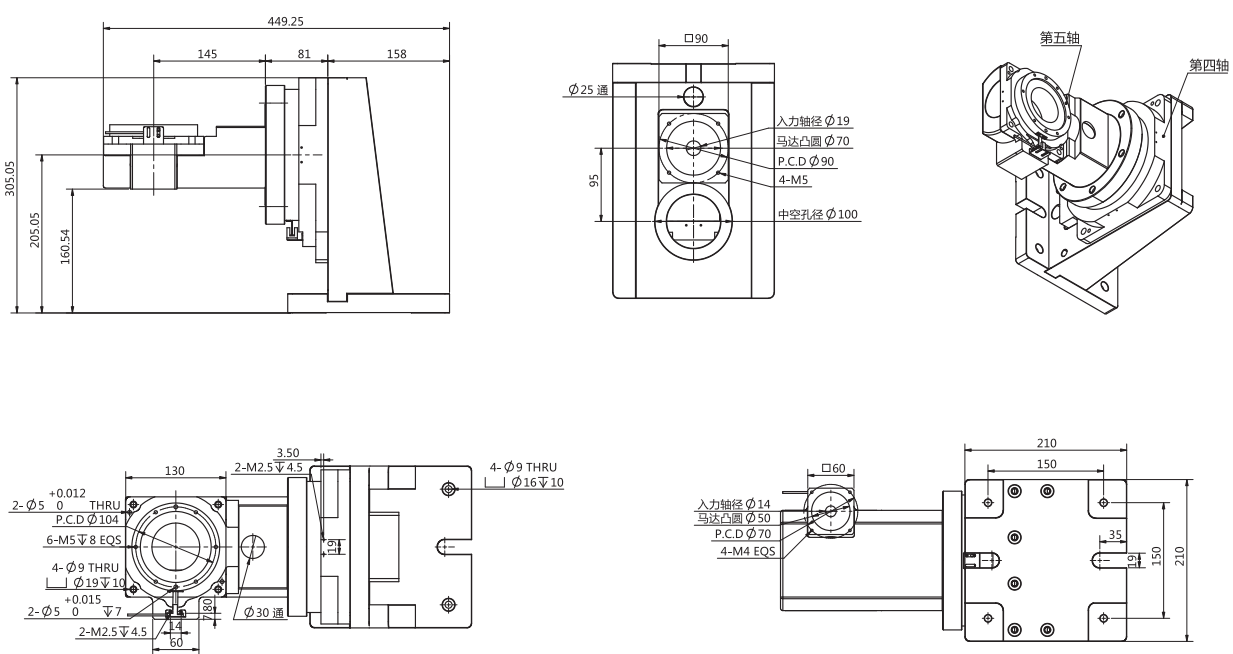
WT130-85



WT85-60



WT200-130



参数项目 Parameters	第四轴GT130 Fourth axis GT130	第五轴GT85 Fifth axis GT85
工作台转速 Workbench speed	0~100rpm/min	0~200rpm/min
工作台远动角度范围 Workbench telescopic angle range	± 75°	360°
启停时允许峰值扭矩 Allowable peak torque during start and stop	60Nm	35Nm
额定扭矩 Rated torque	30Nm	15Nm
最大载重量 Maximum load capacity	<15kg	8kg
中心高度 Center height	151mm	/
输出法兰端面圆跳动 Output flange end face runout ra	≤0.015mm	≤0.015mm
输出法兰径向圆跳动 Output flange radial runout ra	≤0.015mm	≤0.015mm
输出法兰与机台安装面垂直度 Output flange and machine installation surface verticality	≤0.015mm	≤0.015mm
重复定位精度 Repeatability	≤±0.003°	≤±0.003°

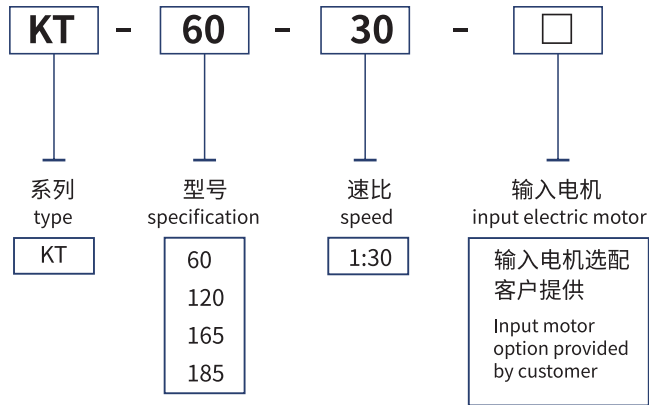
温馨提示：盘面输出转速高于100rpm/min.请订货前说明
Warm reminder: The disk output speed is higher than 100rpm/min. Please indicate in advance before ordering.

KT Series



订货型号表示

Ordering Representation



技术参数

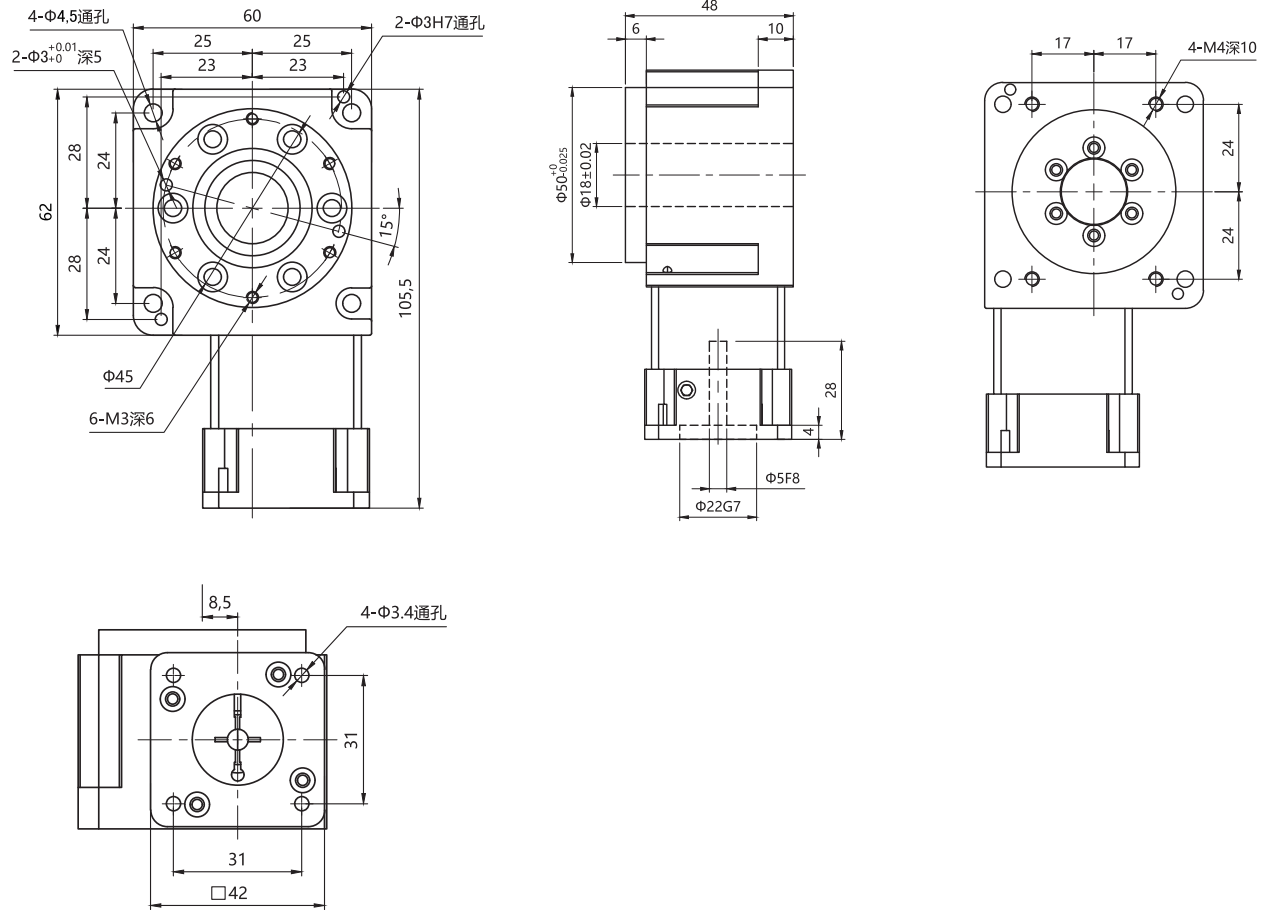
Technical Parameter

规格			KT60	KT120	KT165
减速比	Reduction ratio		30:1	30:1	30:1
额定输出扭矩	Rated output torque	Nm	115Nm	220Nm	450Nm
最大容许径向力	Maximum radial force	N	9000N	18000N	29000N
最大容许轴向力	Maximum pull-out force	N	9000N	18000N	29000N
平台端面跳动	Platform end face runout	mm	≤0.01mm	≤0.01mm	≤0.01mm
平台镜像跳动	Platform mirror runout	mm	≤0.01mm	≤0.01mm	≤0.01mm
回转精度	Rotation accuracy	Arcmin	≤1Arcmin	≤1Arcmin	≤1Arcmin
设计称重	Design weight	Kg	250Kg	600Kg	1100Kg
噪声	Noise	dB	58dB	60dB	63dB
额定输出转速	Rated output speed	RPM	100RPM	100RPM	100RPM
最大输出转速	Maximum output speed	RPM	200RPM	200RPM	150RPM
防护等级	Protection level	Ip	Ip65	Ip65	Ip65
适配电机	Applicable motor	W	400W	750W	1500W
使用寿命	Service life	h	20000h	20000h	20000h
抗扭刚性	Torsion resistance	Nm/arcmin	48.0Nm/arcmin	76.0Nm/arcmin	135.0Nm/arcmin

⚠ 旋转平台平行度有更高要求请联系我司销售人员
If the parallelism of the rotating platform has higher requirements, please contact our sales staff

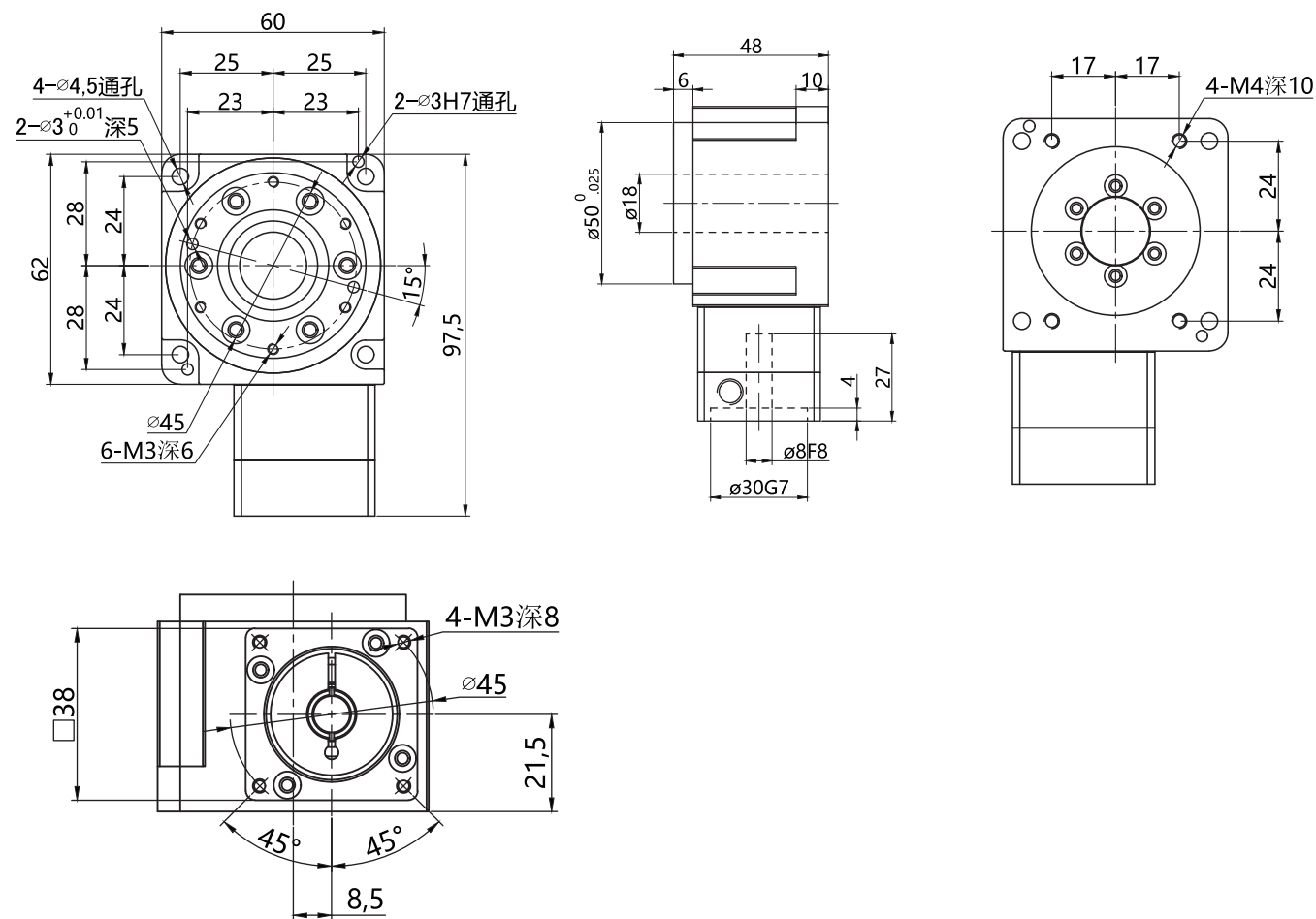


KT60-30-5-22-31-M3



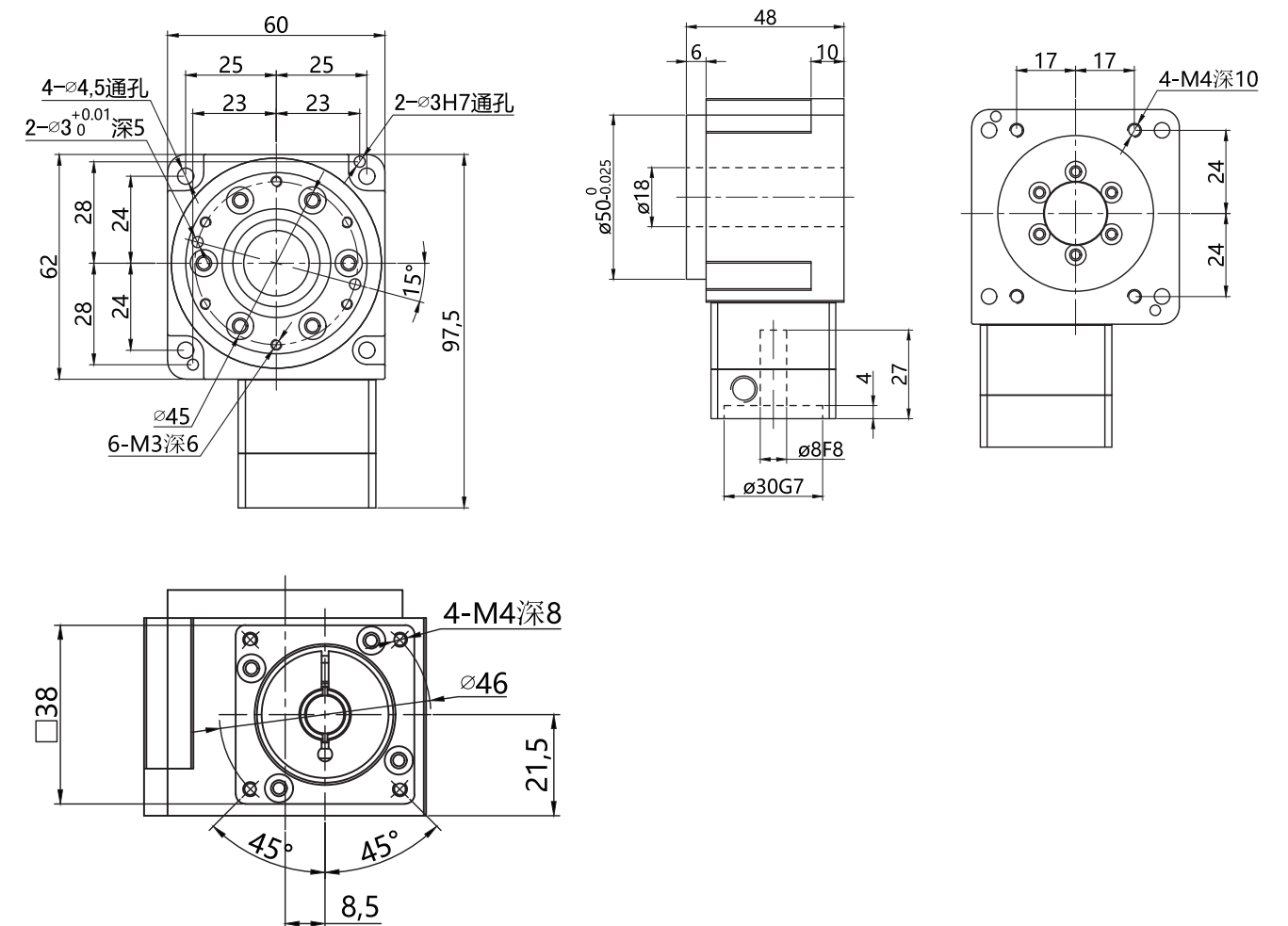
规格 Specification	KT60-30-5-22-31-M3	精度寿命h Precision Lifetime h	20000(间歇运转) 20,000 (Intermittent Operation)
减速比i Reduction ratio i	30	定位精度arcmin Positioning Accuracy arcmin	≤1
额定输出扭矩N.m Rated output torque N.m	35	反复定位精度arcsec Repeatability Precision arcsec	≤30
最大输出扭矩N.m Maximum radial force	3倍额定输出扭矩 3x rated output torque	适配伺服马达W adapted to servo motor W	100
轴承结构 Rotating platform bearing	交叉滚子轴承 Cross roller bearing	适配步进马达 adapted to stepper motor	42步进
容许轴向负载N Allowable axial pressure N	2100	防护等级 Protection Level	54
容许径向负载N Rotating platform bearing	2100	润滑方式 Lubrication Method	长效润滑 Long-Lasting Lubrication
容许盘面转速rpm Allowable disk speed rpm	100	传动效率% Transmission Efficiency	90
旋转平台同心度mm Rotating platform concentricity mm	≤0.01	噪音db Noise db	≤60
旋转平台平行度mm Rotating platform flatness mm	≤0.01	重量kg weight kg	0.9
倾覆力矩N.m Allowable overturning moment N.m	180	安装方式 Installation Method	任意 Arbitrary
容许惯性力矩N.m Allowable inertial moment N.m	15	设计称重kg Design weight kg	10
扭转刚性N.m/rcmin Torsional rigidity N.m/rcmin	--		

KT60-30-8-30-45-M3



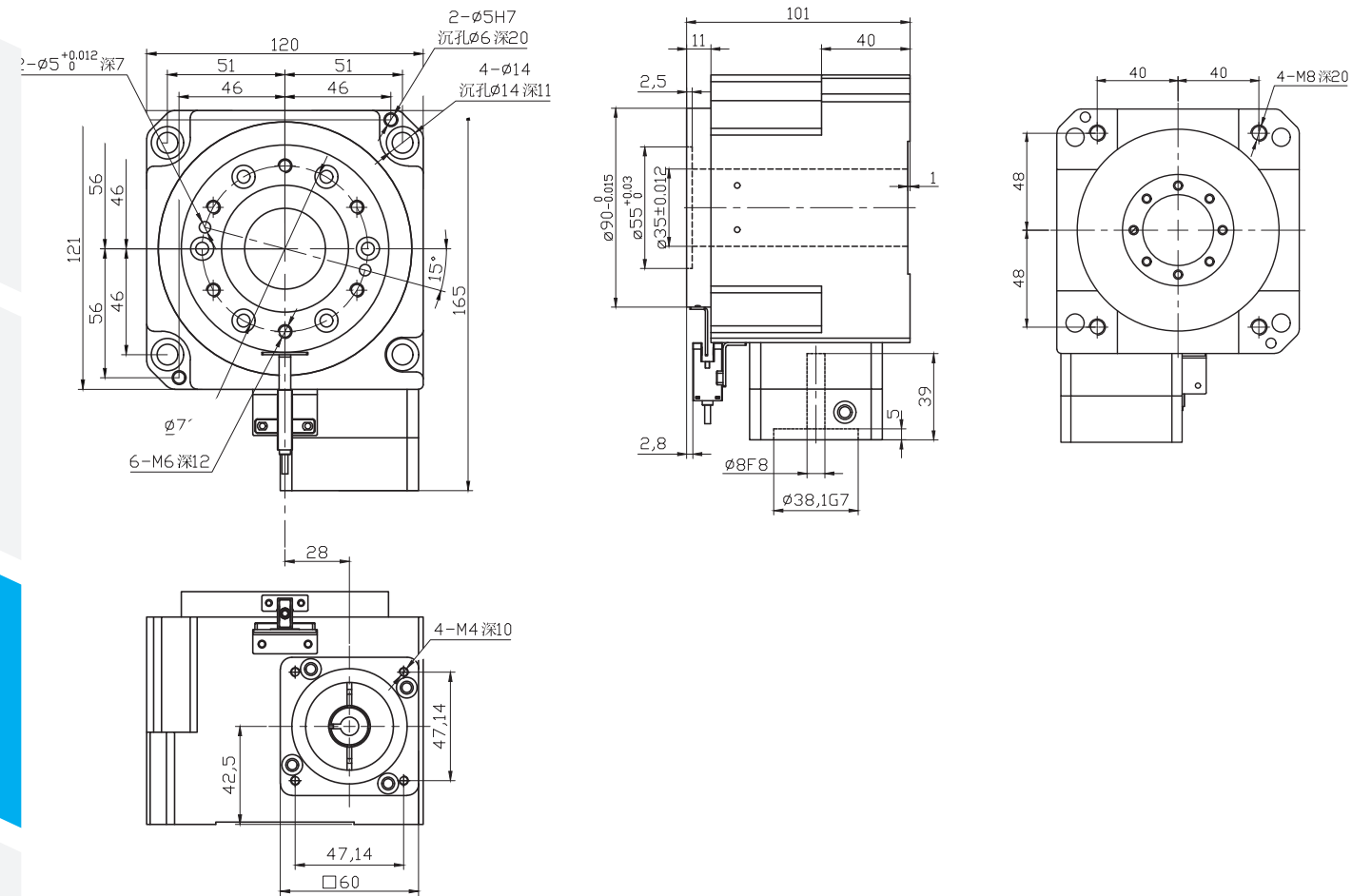
规格 Specification	KT60-30-8-30-45-M3	精度寿命h Precision Lifetime h	20000(间歇运转) 20,000 (Intermittent Operation)
减速比i Reduction ratio i	30	定位精度arcmin Positioning Accuracy arcmin	≤1
额定输出扭矩N.m Rated output torque N.m	35	反复定位精度arcsec Repeatability Precision arcsec	≤30
最大输出扭矩N.m Maximum radial force	3倍额定输出扭矩 3x rated output torque	适配伺服马达W adapted to servo motor W	100
轴承结构 Rotating platform bearing	交叉滚子轴承 Cross roller bearing	适配步进马达 adapted to stepper motor	42步进
容许轴向负载N Allowable axial pressure N	2100	防护等级 Protection Level	54
容许径向负载N Rotating platform bearing	2100	润滑方式 Lubrication Method	长效润滑 Long-Lasting Lubrication
容许盘面转速rpm Allowable disk speed rpm	100	传动效率% Transmission Efficiency	90
旋转平台同心度mm Rotating platform concentricity mm	≤0.01	噪音db Noise db	≤60
旋转平台平行度mm Rotating platform flatness mm	≤0.01	重量kg weight kg	0.9
倾覆力矩N.m Allowable overturning moment N.m	180	安装方式 Installation Method	任意 Arbitrary
容许惯性力矩N.m Allowable inertial moment N.m	15	设计称重kg Design weight kg	10
扭转刚性N.m/rcmin Torsional rigidity N.m/rcmin	-		

KT60-30-8-30-46-M4



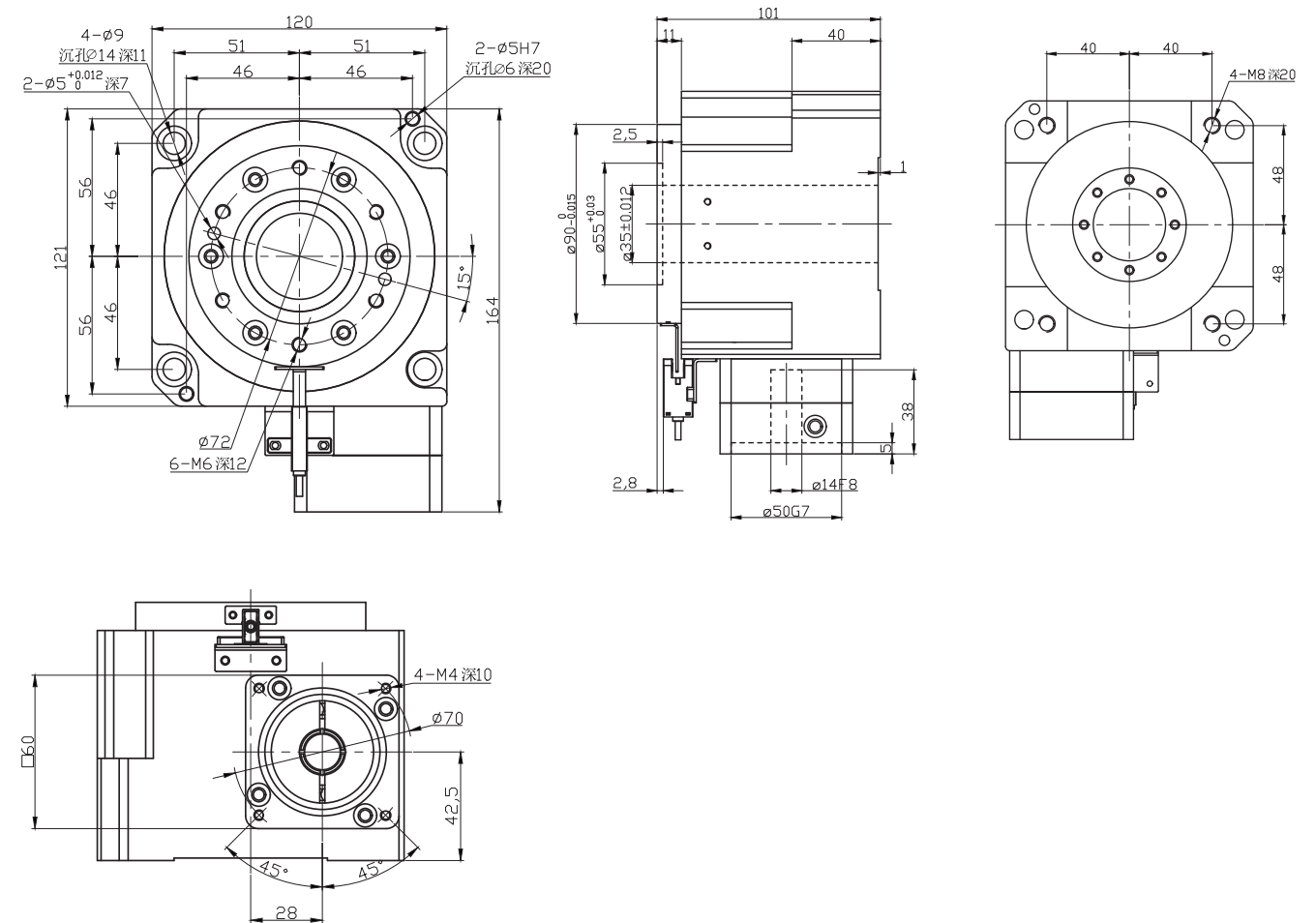
规格 Specification	KT60-30-8-30-46-M4	精度寿命h Precision Lifetime h	20000(间歇运转) 20,000 (Intermittent Operation)
减速比i Reduction ratio i	30	定位精度arcmin Positioning Accuracy arcmin	≤1
额定输出扭矩N.m Rated output torque N.m	35	反复定位精度arcsec Repeatability Precision arcsec	≤30
最大输出扭矩N.m Maximum radial force	3倍额定输出扭矩 3x rated output torque	适配伺服马达W adapted to servo motor W	100
轴承结构 Rotating platform bearing	交叉滚子轴承 Cross roller bearing	适配步进马达 adapted to stepper motor	42步进
容许轴向负载N Allowable axial pressure N	2100	防护等级 Protection Level	54
容许径向负载N Rotating platform bearing	2100	润滑方式 Lubrication Method	长效润滑 Long-Lasting Lubrication
容许盘面转速rpm Allowable disk speed rpm	100	传动效率% Transmission Efficiency	90
旋转平台同心度mm Rotating platform concentricity mm	≤0.01	噪音db Noise db	≤60
旋转平台平行度mm Rotating platform flatness mm	≤0.01	重量kg weight kg	0.9
倾覆力矩N.m Allowable overturning moment N.m	180	安装方式 Installation Method	任意 Arbitrary
容许惯性力矩N.m Allowable inertial moment N.m	15	设计称重kg Design weight kg	10
扭转刚性N.m/rcmin Torsional rigidity N.m/rcmin	-		

KT120-30-8-38.1-66.67-M4



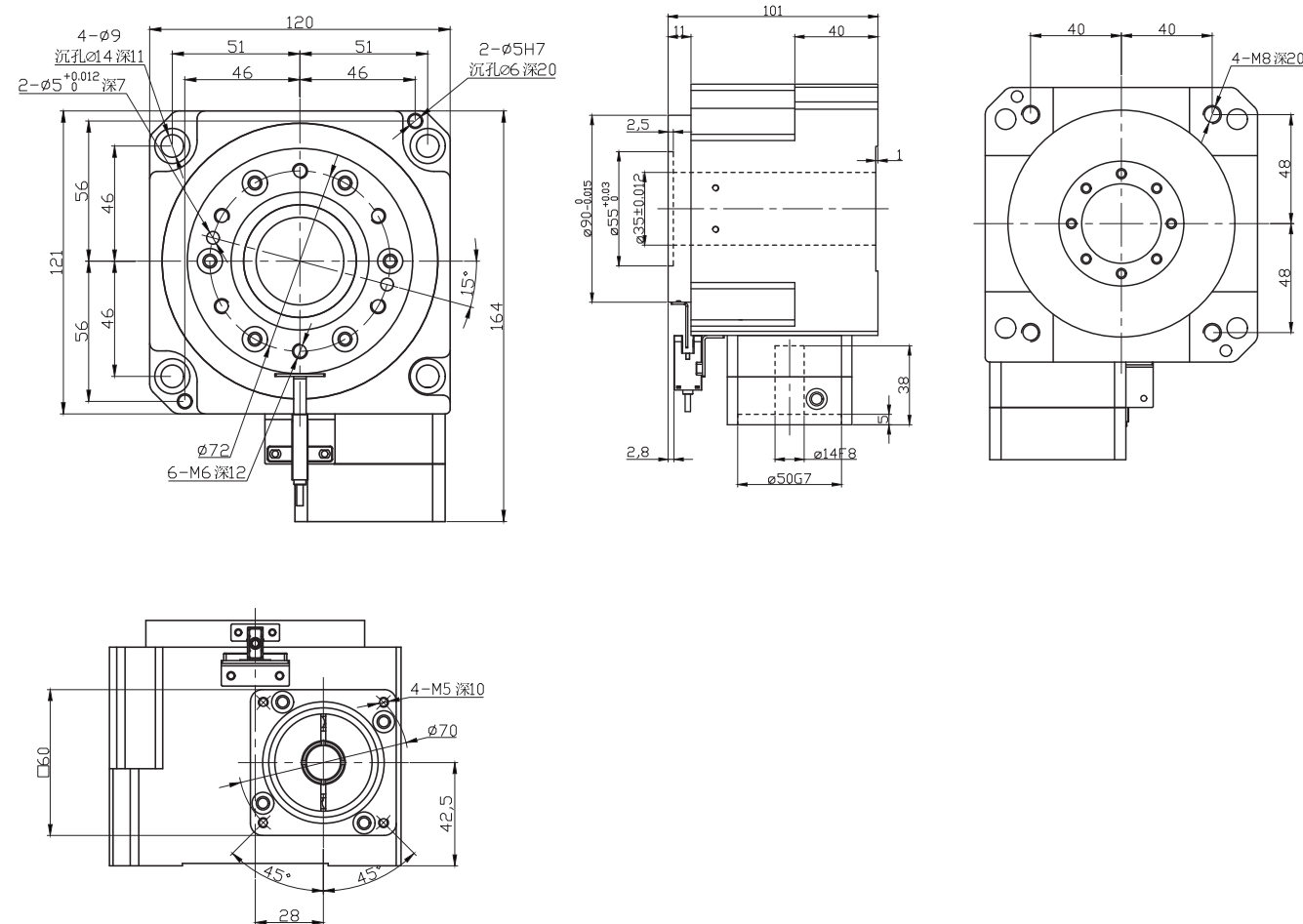
规格 Specification	KT120-30-8-38.1-66.67-M4	精度寿命h Precision Lifetime h	20000(间歇运转) 20,000 (Intermittent Operation)
减速比i Reduction ratio i	30	定位精度arcmin Positioning Accuracy arcmin	≤1
额定输出扭矩N.m Rated output torque N.m	115	反复定位精度arcsec Repeatability Precision arcsec	≤30
最大输出扭矩N.m Maximum radial force	3倍额定输出扭矩 3x rated output torque	适配伺服马达W adapted to servo motor W	200-400
轴承结构 Rotating platform bearing	交叉滚子轴承 Cross roller bearing	适配步进马达 adapted to stepper motor	57-86步进
容许轴向负载N Allowable axial pressure N	7300	防护等级 Protection Level	54
容许径向负载N Rotating platform bearing	7300	润滑方式 Lubrication Method	长效润滑 Long-Lasting Lubrication
容许盘面转速rpm Allowable disk speed rpm	100	传动效率% Transmission Efficiency	90
旋转平台同心度mm Rotating platform concentricity mm	≤0.01	噪音db Noise db	≤60
旋转平台平行度mm Rotating platform flatness mm	≤0.01	重量kg weight kg	4.3
倾覆力矩N.m Allowable overturning moment N.m	520	安装方式 Installation Method	任意 Arbitrary
容许惯性力矩N.m Allowable inertial moment N.m	50	设计称重kg Design weight kg	40
扭转刚性N.m/rcmin Torsional rigidity N.m/rcmin	-		

KT120-30-14-50-70-M4



规格 Specification	KT120-30-14-50-70-M4	精度寿命h Precision Lifetime h	20000(间歇运转) 20,000 (Intermittent Operation)
减速比i Reduction ratio i	30	定位精度arcmin Positioning Accuracy arcmin	≤1
额定输出扭矩N.m Rated output torque N.m	115	反复定位精度arcsec Repeatability Precision arcsec	≤30
最大输出扭矩N.m Maximum radial force	3倍额定输出扭矩 3x rated output torque	适配伺服马达W adapted to servo motor W	200-400
轴承结构 Rotating platform bearing	交叉滚子轴承 Cross roller bearing	适配步进马达 adapted to stepper motor	57-86步进
容许轴向负载N Allowable axial pressure N	7300	防护等级 Protection Level	54
容许径向负载N Rotating platform bearing	7300	润滑方式 Lubrication Method	长效润滑 Long-Lasting Lubrication
容许盘面转速rpm Allowable disk speed rpm	100	传动效率% Transmission Efficiency	90
旋转平台同心度mm Rotating platform concentricity mm	≤0.01	噪音db Noise db	≤60
旋转平台平行度mm Rotating platform flatness mm	≤0.01	重量kg weight kg	4.3
倾覆力矩N.m Allowable overturning moment N.m	520	安装方式 Installation Method	任意 Arbitrary
容许惯性力矩N.m Allowable inertial moment N.m	50	设计称重kg Design weight kg	40
扭转刚性N.m/rcmin Torsional rigidity N.m/rcmin	-		

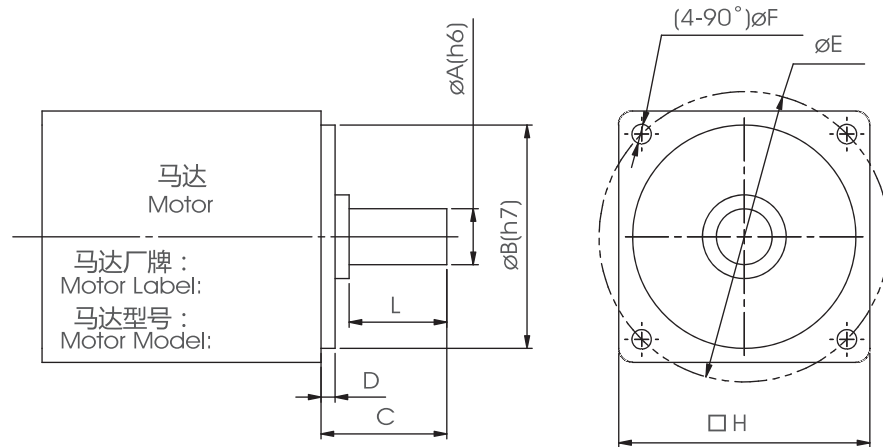
KT120-30-14-50-70-M5



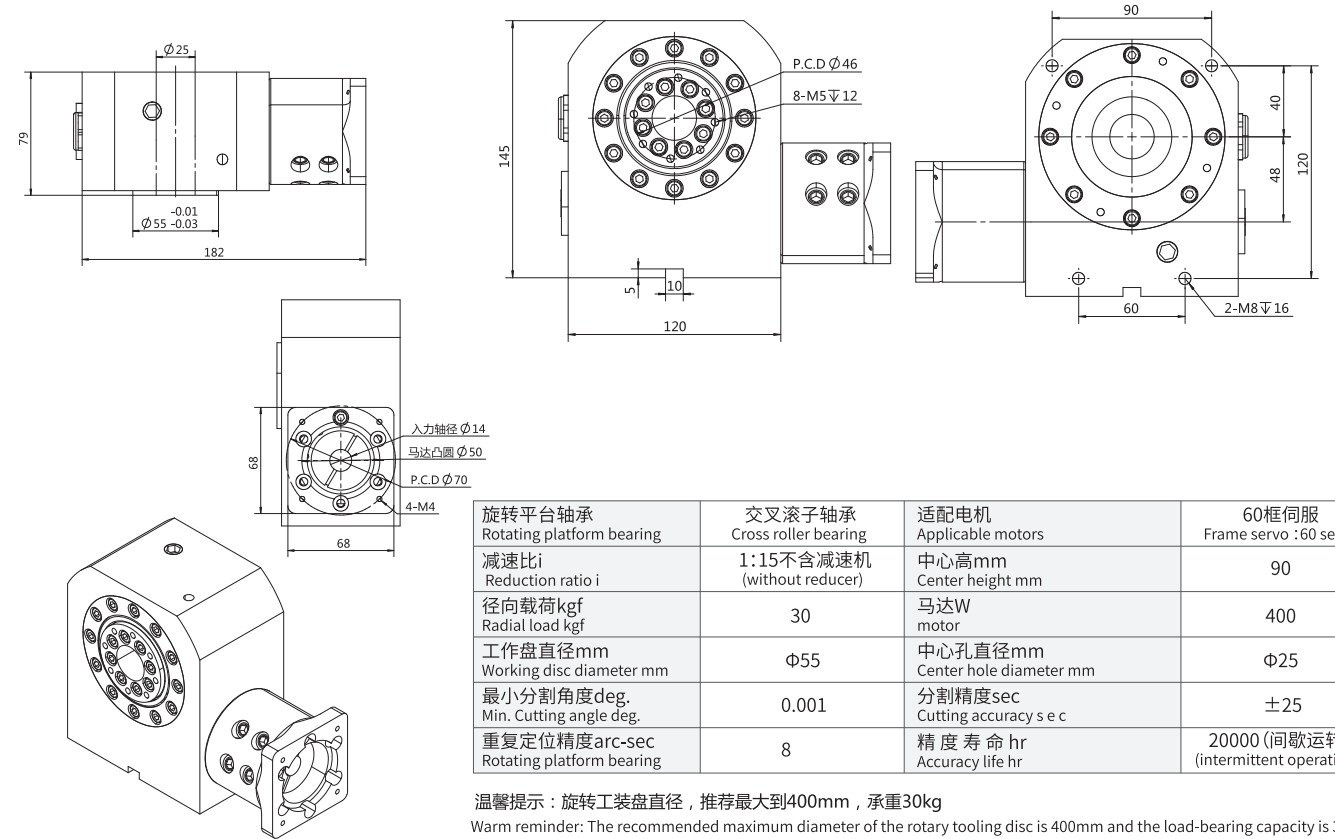
规格 Specification	KT120-30-14-50-70-M5	精度寿命h Precision Lifetime h	20000(间歇运转) 20,000 (Intermittent Operation)
减速比 Reduction ratio i	30	定位精度arcmin Positioning Accuracy arcmin	≤1
额定输出扭矩N.m Rated output torque N.m	115	反复定位精度arcsec Repeatability Precision arcsec	≤30
最大输出扭矩N.m Maximum radial force	3倍额定输出扭矩 3x rated output torque	适配伺服马达W adapted to servo motor W	200-400
轴承结构 Rotating platform bearing	交叉滚子轴承 Cross roller bearing	适配步进马达 adapted to stepper motor	57-86步进
容许轴向负载N Allowable axial pressure N	7300	防护等级 Protection Level	54
容许径向负载N Rotating platform bearing	7300	润滑方式 Lubrication Method	长效润滑 Long-Lasting Lubrication
容许盘面转速rpm Allowable disk speed rpm	100	传动效率% Transmission Efficiency	90
旋转平台同心度mm Rotating platform concentricity mm	≤0.01	噪音db Noise db	≤60
旋转平台平行度mm Rotating platform flatness mm	≤0.01	重量kg weight kg	4.3
倾覆力矩N.m Allowable overturning moment N.m	520	安装方式 Installation Method	任意 Arbitrary
容许惯性力矩N.m Allowable inertial moment N.m	50	设计称重kg Design weight kg	40
扭转刚性N.m/rcmin Torsional rigidity N.m/rcmin	-		

YT Series

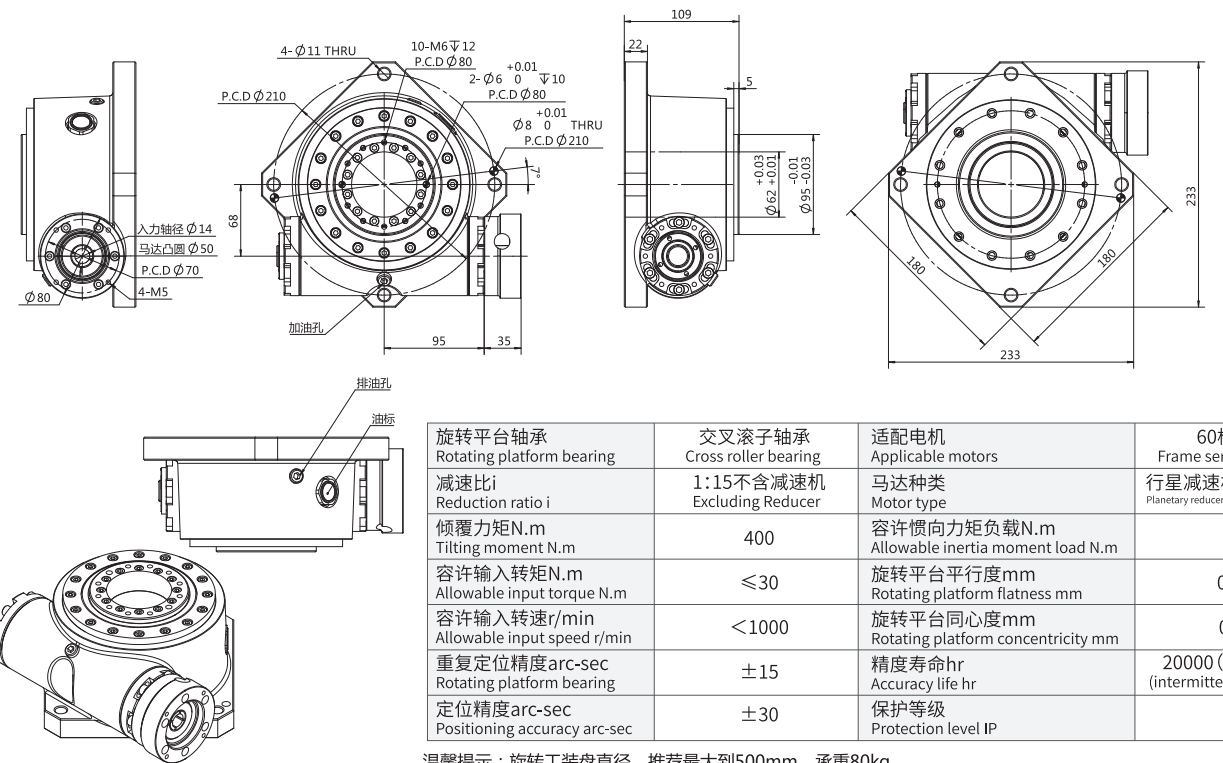


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* 以上技术参数仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。

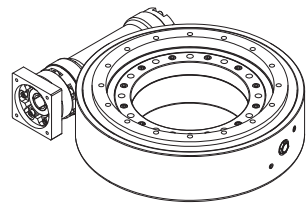
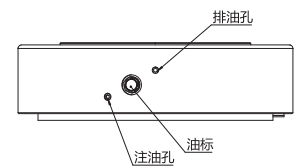
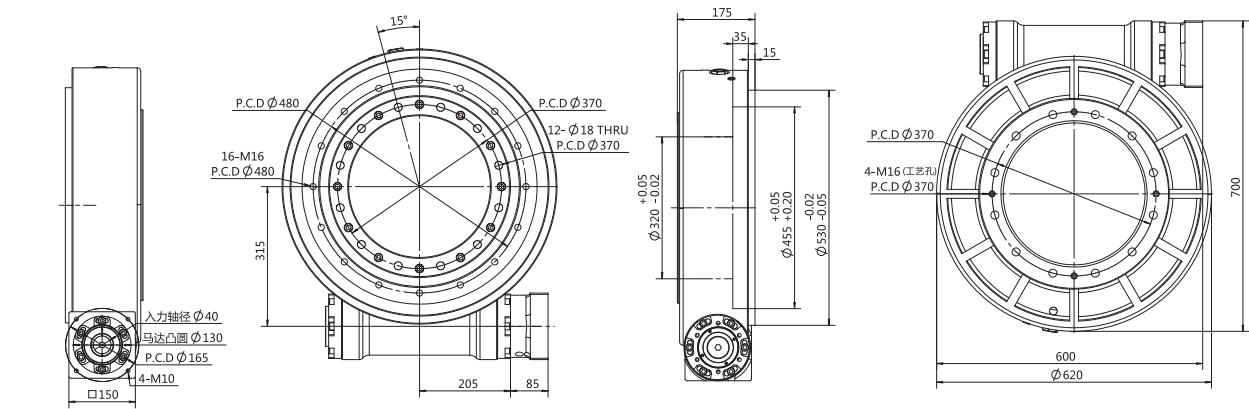


温馨提示：旋转工装盘直径，推荐最大到400mm，承重30kg
Warm reminder: The recommended maximum diameter of the rotary tooling disc is 400mm and the load-bearing capacity is 30kg.



温馨提示：旋转工装盘直径，推荐最大到500mm，承重80kg
Reminder: The recommended maximum diameter of the rotary tooling plate is 800mm, and the load-bearing capacity is 500kg.
温馨提示：如需倒装、侧装，请订货时提前注明
Tips: If you need to install it upside down or sideways, please indicate it in advance when ordering.

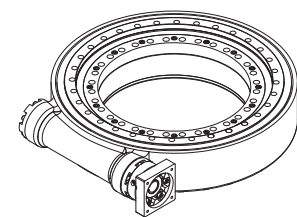
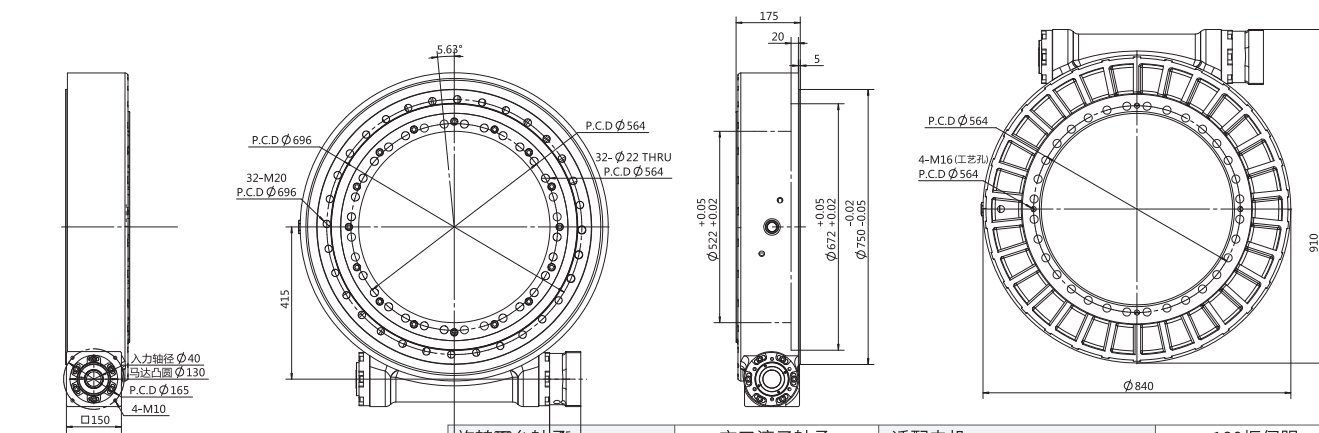
YT315HP-60K



旋转平台轴承 Rotating platform bearing	交叉滚子轴承 Cross roller bearing	适配电机 Applicable motors	180框伺服 Frame servo :180 servo
减速比 Reduction ratio i	1:60不含减速机 Excluding Reducer	马达种类 Motor type	行星减速机+伺服马达 Planetary reducer + servo motor + servo
倾覆力矩N.m Tilting moment N.m	13354	容许垂直压力N Allowable vertical pressure N	28000
径向载荷T Radial load T	2.5	旋转平台平直度mm Rotating platform flatness mm	0.03
容许输入转速r/min Allowable input speed r/min	<800	旋转平台同心度mm Rotating platform concentricity mm	0.03
重复定位精度arc-sec Rotating platform bearing	±15	精度寿命hr Accuracy life hr	20000 (间歇运转) (intermittent operation)
定位精度arc-sec Positioning accuracy arc-sec	±30	保护等级 Protection level IP	40

温馨提示：旋转工装盘直径，推荐最大到1400mm，承重2500kg

Warm reminder: The recommended maximum diameter of the rotary tooling disc is 1400mm and the load-bearing capacity is 2500kg.

YT415HP-60K

旋转平台轴承 Rotating platform bearing	交叉滚子轴承 Cross roller bearing	适配电机 Applicable motors	180框伺服 Frame servo :180 servo
减速比 Reduction ratio i	1:60不含减速机 Excluding Reducer	马达种类 Motor type	行星减速机+伺服马达 Planetary reducer + servo motor + servo
倾覆力矩N.m Tilting moment N.m	30000	容许垂直压力N Allowable vertical pressure N	60000
径向载荷T Radial load T	4.5	旋转平台平行度mm Rotating platform flatness mm	0.03
容许输入转速r/min Allowable input speed r/min	<800	旋转平台同心度mm Rotating platform concentricity mm	0.03
重复定位精度arc-sec Rotating platform bearing	±15	精度寿命hr Accuracy life hr	20000 (间歇运转) (intermittent operation)
定位精度arc-sec Positioning accuracy arc-sec	±30	保护等级 Protection level IP	40

温馨提示：旋转工装盘直径，推荐最大到1900mm，承重4500kg

Reminder: The recommended maximum diameter of the rotary tooling plate is 1900mm, and the load-bearing capacity is 4500kg.

温馨提示：如需倒装、侧装，请订货时提前注明

Tips: If you need to install it upside down or sideways, please indicate it in advance when ordering.

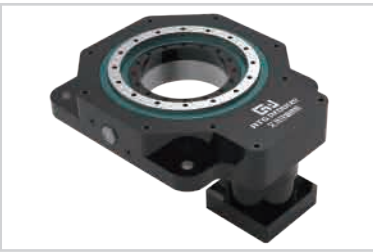
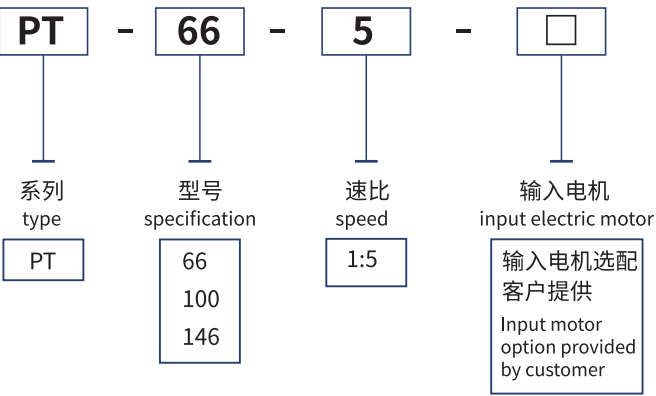
P.T.

Series

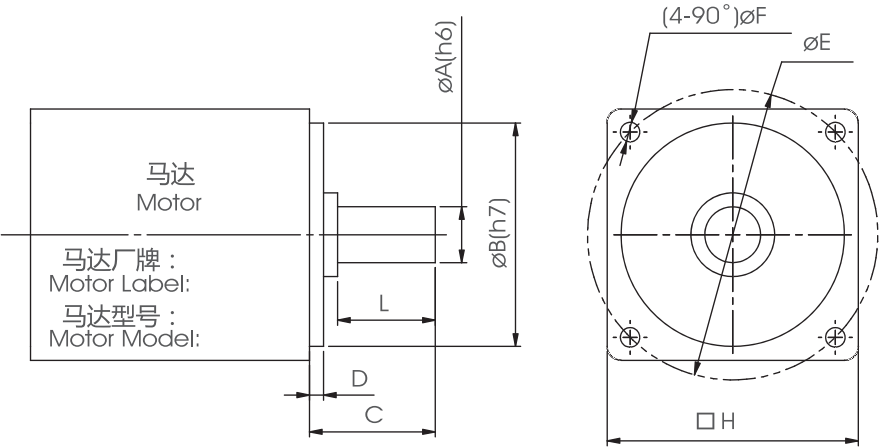


订货型号表示

Ordering Representation



客户填写资料

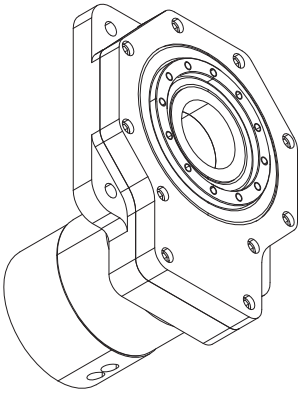
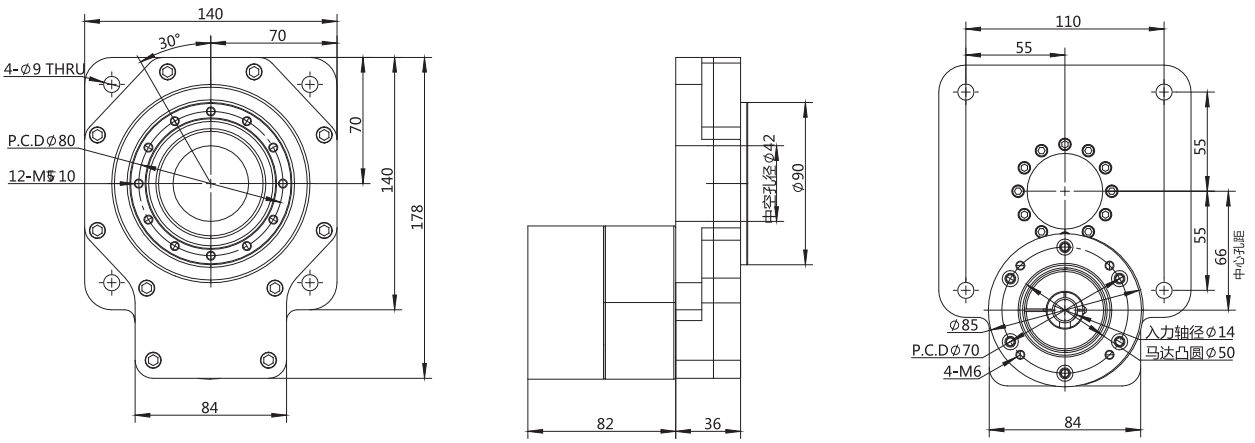


规格

Motor Shaft Dia.	Flange Dia.	Motor Shaft Length	Flange Height	P.C.D of Bore	Bore Dia.	Motor Flange Square	Actual Length of Motor Shaft	Backlash
马达轴外径	马达凸缘外径	马达轴长度	马达凸缘高度	螺丝孔中心距	螺丝孔直径	马达面尺寸	马达轴有效长	要求背隙
ØA(h6)	ØB(h7)	C	D	ØE	ØF	□H	L	PO/P1/P2

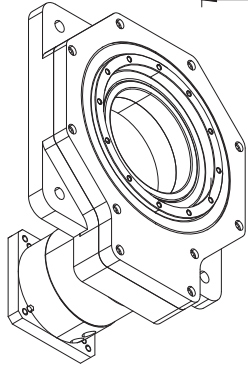
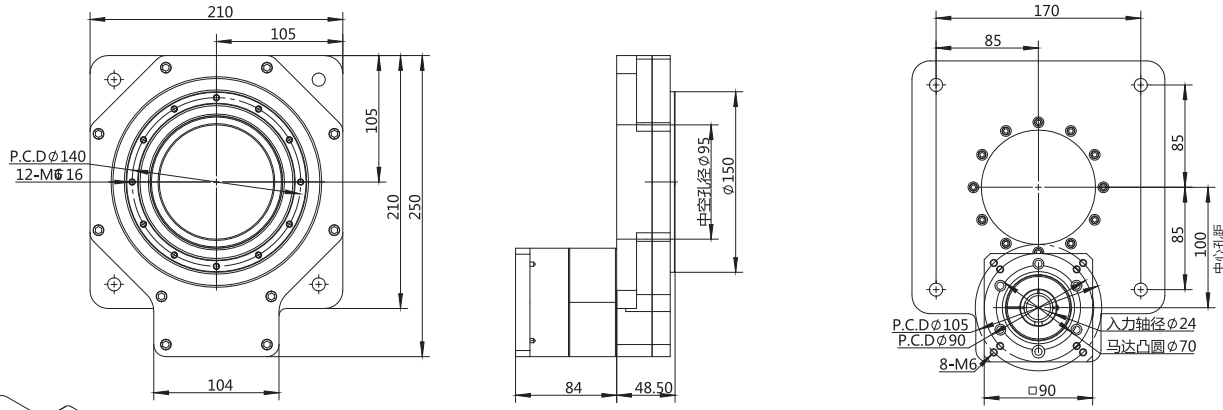
* 以上技术参数仅供参考，实际根据客户提供的数据，会出具相关的技术参数及尺寸。

PT66



旋转平台轴承 Rotating platform bearing	交叉滚子轴承 Cross roller bearing	适配电机 Adaptable motor	行星+60框伺服 planet+ 60servo
减速比i Reduction ratio i	1:5	容许轴向压力N Allowable axial pressure N	1000
容许输入转矩N.m Allowable input torque N.m	≤50	旋转平台平面度mm Rotating platform flatness mm	0.02
容许盘面转速rpm Allowable disk speed rpm	150	旋转平台同心度mm Rotating platform concentricity mm	0.01
重复定位精度arc-sec Rotating platform bearing	±15	精度 寿命 hr Accuracy life hr	20000 (间歇运转) (intermittent operation)
定位精度arc-sec Positioning accuracy arc-sec	±30	保护等级IP Protection level IP	50

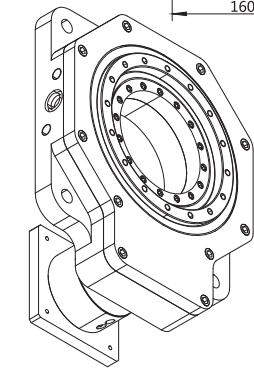
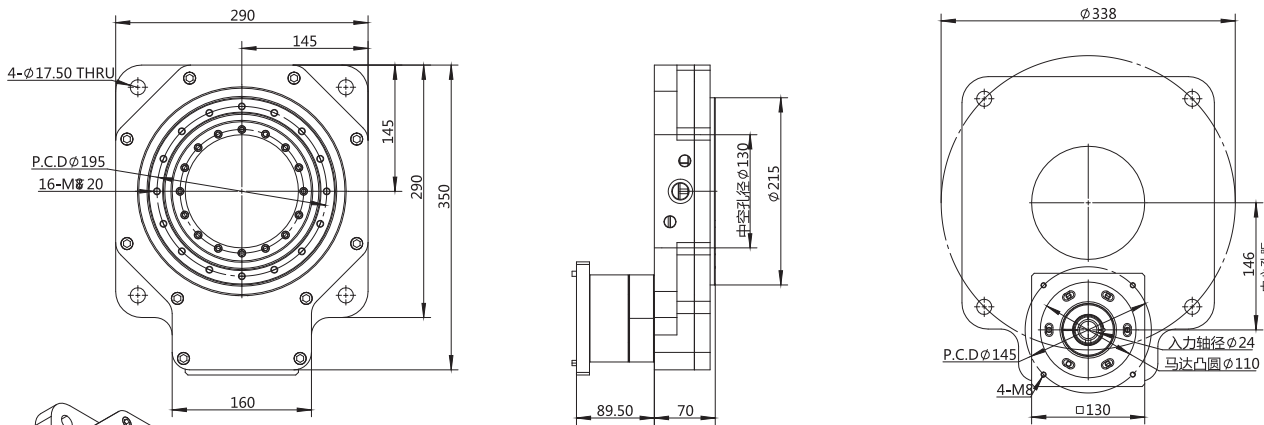
PT100



旋转平台轴承 Rotating platform bearing	交叉滚子轴承 Cross roller bearing	适配电机 Adaptable motor	行星+80框伺服 planet+ 80servo
减速比i Reduction ratio i	1:5	容许轴向压力N Allowable axial pressure N	2000
容许输入转矩N.m Allowable input torque N.m	≤120	旋转平台平面度mm Rotating platform flatness mm	0.02
容许盘面转速rpm Allowable disk speed rpm	150	旋转平台同心度mm Rotating platform concentricity mm	0.01
重复定位精度arc-sec Rotating platform bearing	±15	精度 寿命 hr Accuracy life hr	20000 (间歇运转) (intermittent operation)
定位精度arc-sec Positioning accuracy arc-sec	±30	保护等级IP Protection level IP	50

温馨提示：盘面输出转速高于100rpm/min.请订货前说明
Warm reminder: The disk output speed is higher than 100rpm/min. Please indicate in advance before ordering.

PT146



旋转平台轴承 Rotating platform bearing	交叉滚子轴承 Cross roller bearing	适配电机 Adaptable motor	行星+130框伺服 planet+ 130servo
减速比i Reduction ratio i	1:5	容许轴向压力N Allowable axial pressure N	4000
容许输入转矩N.m Allowable input torque N.m	≤180	旋转平台平面度mm Rotating platform flatness mm	0.02
容许盘面转速rpm Allowable disk speed rpm	75	旋转平台同心度mm Rotating platform concentricity mm	0.01
重复定位精度arc-sec Rotating platform bearing	±15	精度寿命hr Accuracy life hr	20000 (间歇运转) (intermittent operation)
定位精度arc-sec Positioning accuracy arc-sec	±30	保护等级IP Protection level IP	50

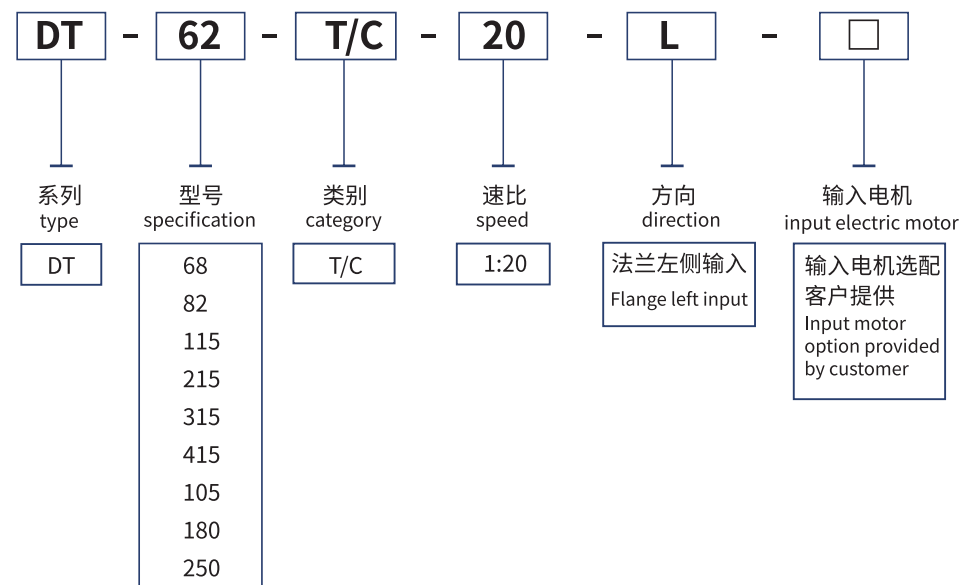
温馨提示：盘面输出转速高于100rpm/min.请订货前说明
Warm reminder: The disk output speed is higher than 100rpm/min. Please indicate in advance before ordering.

DT Series

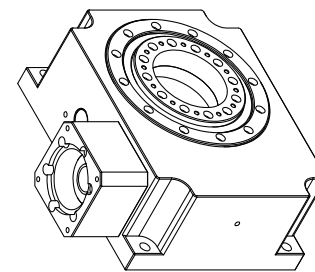
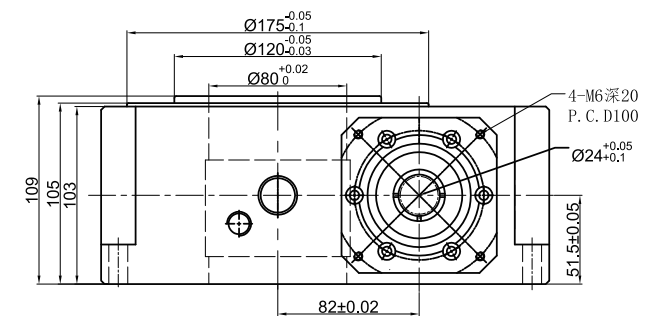
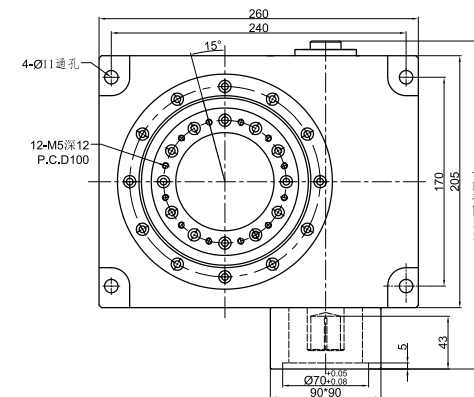


订货型号表示

Ordering Representation



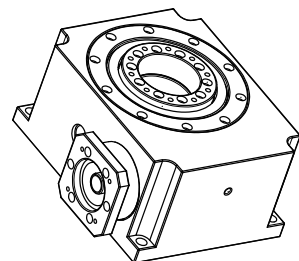
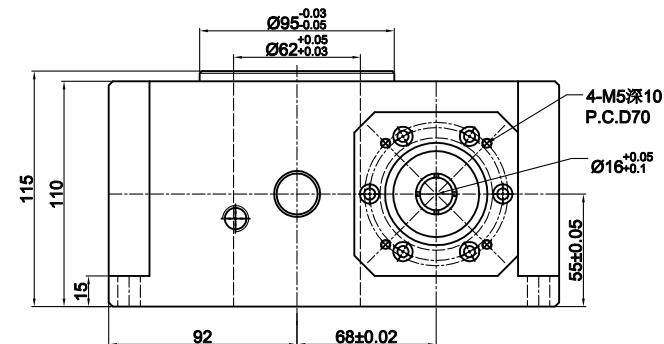
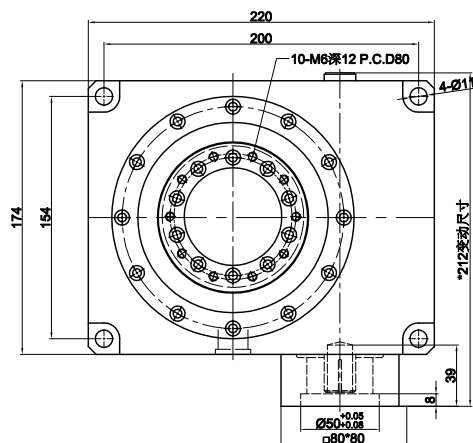
DT82-T-20-L



规格 Specifications	DT-82-T-20-L	定位精度arc-sec Positioning accuracy arc-sec	±10
减速比i Reduction ratio i	1:20	重复定位精度arc-sec Repeat positioning accuracy (sec)	±5
适配马达 Applicable motor	伺服马达+行星减速机 Servo motor + planetary reducer	旋转平台平行度mm Parallelism of rotary table (mm)	±0.005
容许惯性力矩 Kg·m(Nm) Allowable moment of inertia	36.8 (361)	旋转平台同心度mm Rotating platform concentricity mm	±0.01
容许转速 r/min Allowable speed (r/min)	<1000	精度寿命hr Accuracy life hr	20000
容许径向载荷 Nm Allowable radial load (Nm)	3400	保护等级 Protection level IP	40
容许轴向载荷 Nm Allowable axial load (Nm)	4300	重量Kg Protection level IP	18

温馨提示：法兰连接尺寸均可非标定制
Warm reminder: Flange connection size can be customized

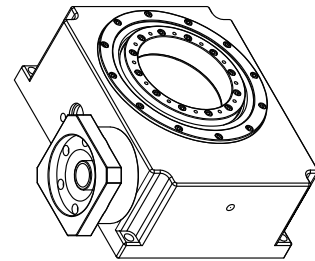
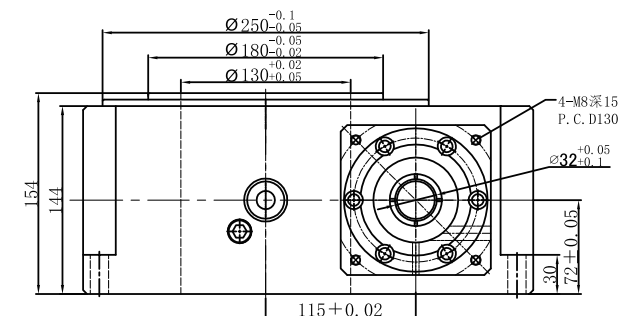
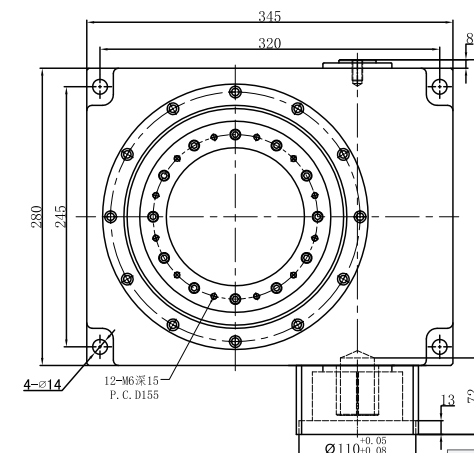
DT68-T-20-L



规格 Specifications	DT-68-T-20-L	定位精度arc-sec Positioning accuracy arc-sec	±10
减速比i Reduction ratio i	1:20	重复定位精度arc-sec Repeat positioning accuracy (sec)	±5
适配马达 Applicable motor	伺服马达+行星减速机 Servo motor + planetary reducer	旋转平台平行度mm Parallelism of rotary table (mm)	±0.005
容许惯性力矩 Kg·m(Nm) Allowable moment of inertia	18(178)	旋转平台同心度mm Rotating platform concentricity mm	±0.01
容许转速 r/min Allowable speed (r/min)	<1000	精度寿命hr Accuracy life hr	20000
容许径向载荷 Nm Allowable radial load (Nm)	1580	保护等级 Protection level IP	40
容许轴向载荷 Nm Allowable axial load (Nm)	2160	重量Kg Protection level IP	18

温馨提示：法兰连接尺寸均可非标定制
Warm reminder: Flange connection size can be customized

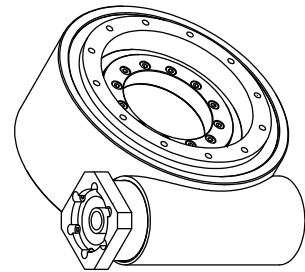
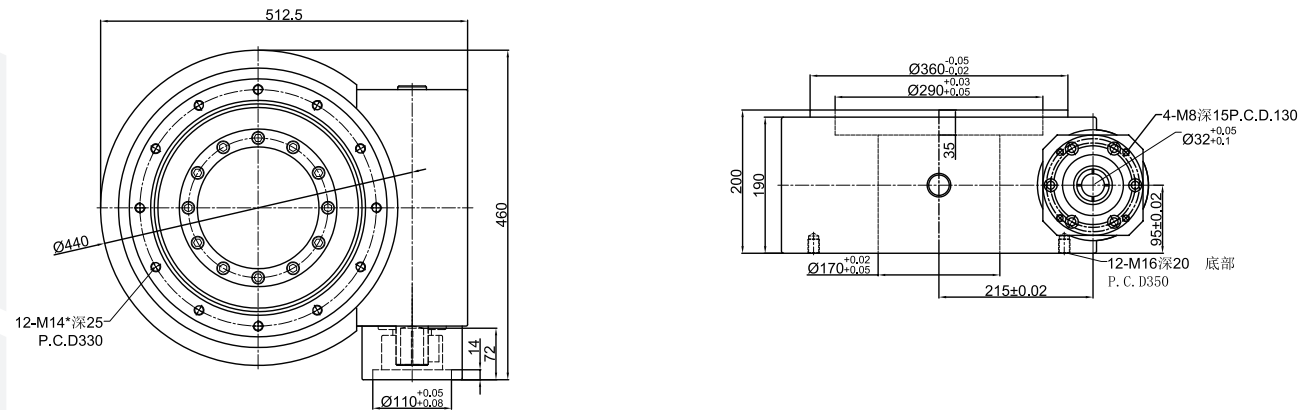
DT115-T-20-L



规格 Specifications	DT-115-T-20-L	定位精度arc-sec Positioning accuracy arc-sec	±15
减速比i Reduction ratio i	1:20	重复定位精度arc-sec Repeat positioning accuracy (sec)	±5
适配马达 Applicable motor	伺服马达+行星减速机 Servo motor + planetary reducer	旋转平台平行度mm Parallelism of rotary table (mm)	±0.005
容许惯性力矩 Kg·m(Nm) Allowable moment of inertia	183(1793)	旋转平台同心度mm Rotating platform concentricity mm	±0.01
容许转速 r/min Allowable speed (r/min)	<1000	精度寿命hr Accuracy life hr	20000
容许径向载荷 Nm Allowable radial load (Nm)	9050	保护等级 Protection level IP	40
容许轴向载荷 Nm Allowable axial load (Nm)	11760	重量Kg Protection level IP	48

温馨提示：法兰连接尺寸均可非标定制
Warm reminder: Flange connection size can be customized

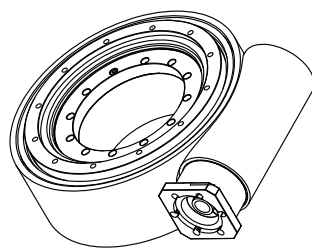
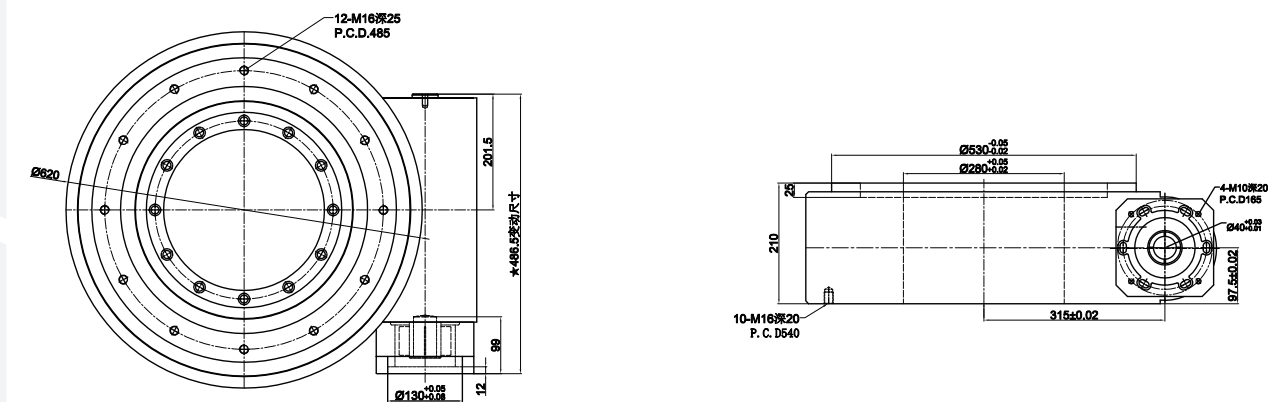
DT215-T-30-L



规格 Specifications	DT-215-T-30-L	定位精度arc-sec Positioning accuracy arc-sec	±20
减速比i Reduction ratio i	1:30	重复定位精度arc-sec Repeat positioning accuracy (sec)	±5
适配马达 Applicable motor	伺服马达+行星减速机 Servo motor + planetary reducer	旋转平台平行度mm Parallelism of rotary table (mm)	±0.005
容许惯性力矩 Kg·m(Nm) Allowable moment of inertia	1070 (10500)	旋转平台同心度mm Rotating platform concentricity mm	±0.01
容许转速 r/min Allowable speed (r/min)	<1000	精度寿命hr Accuracy life hr	20000
容许径向载荷 Nm Allowable radial load (Nm)	23250	保护等级 Protection level IP	40
容许轴向载荷 Nm Allowable axial load (Nm)	30100	重量Kg Protection level IP	230

温馨提示：法兰连接尺寸均可非标定制
Warm reminder: Flange connection size can be customized

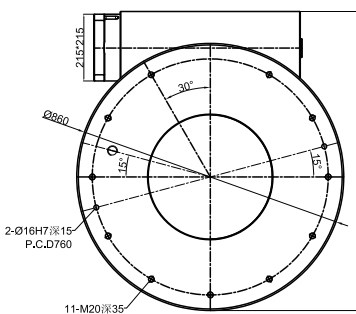
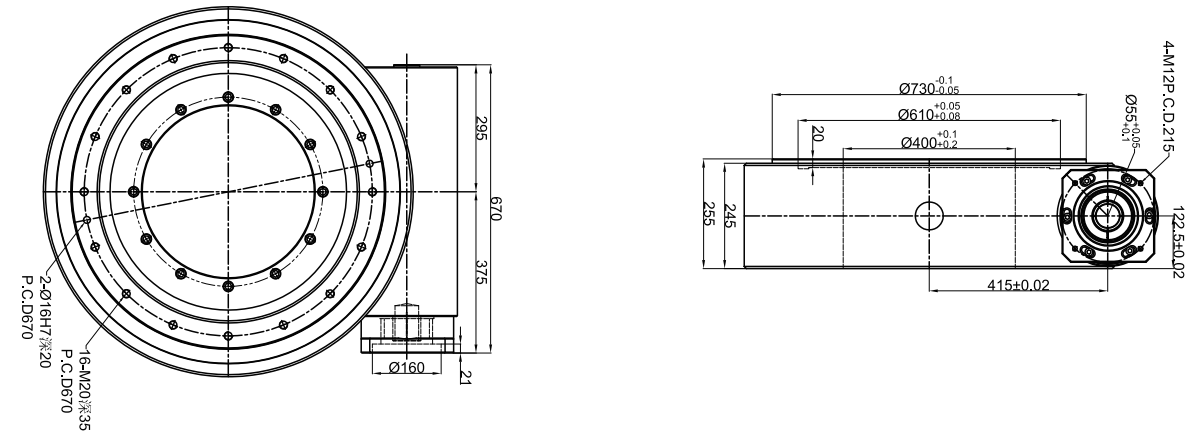
DT315-T-40-L



规格 Specifications	DT315-T-40-L	定位精度arc-sec Positioning accuracy arc-sec	±15
减速比i Reduction ratio i	1:40	重复定位精度arc-sec Repeat positioning accuracy (sec)	±5
适配马达 Applicable motor	伺服马达+行星减速机 Servo motor + planetary reducer	旋转平台平行度mm Parallelism of rotary table (mm)	±0.005
容许惯性力矩 Kg·m(Nm) Allowable moment of inertia	2355	旋转平台同心度mm Rotating platform concentricity mm	±0.01
容许转速 r/min Allowable speed (r/min)	<1000	精度寿命hr Accuracy life hr	20000
容许径向载荷 Nm Allowable radial load (Nm)	39500	保护等级 Protection level IP	40
容许轴向载荷 Nm Allowable axial load (Nm)	51000	重量Kg Protection level IP	460

温馨提示：法兰连接尺寸均可非标定制
Warm reminder: Flange connection size can be customized

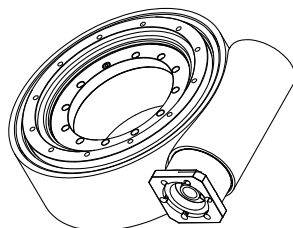
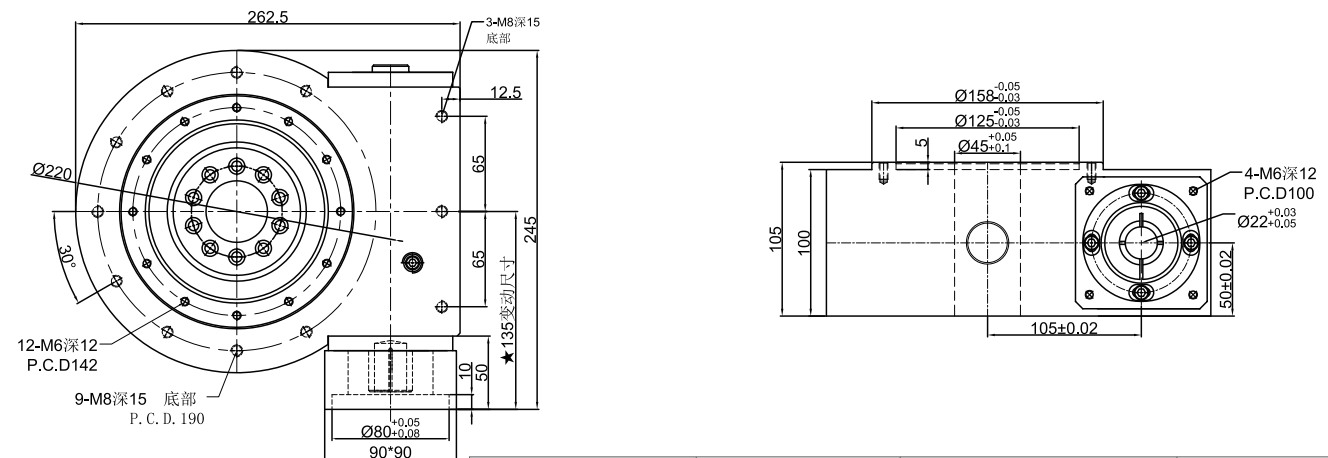
DT415-T-30-L



规格 Specifications	DT415-T-30-L	定位精度arc-sec Positioning accuracy arc-sec	±20
减速比i Reduction ratio i	1:30	重复定位精度arc-sec Repeat positioning accuracy (sec)	±5
适配马达 Applicable motor	伺服马达+行星减速机 Servo motor + planetary reducer	旋转平台平行度mm Parallelism of rotary table (mm)	±0.005
容许惯性力矩 Kg·m(Nm) Allowable moment of inertia	2250 (22050)	旋转平台同心度mm Rotating platform concentricity mm	±0.01
容许转速 r/min Allowable speed (r/min)	<1000	精度寿命hr Accuracy life hr	20000
容许径向载荷 Nm Allowable radial load (Nm)	66385	保护等级 Protection level IP	40
容许轴向载荷 Nm Allowable axial load (Nm)	86300	重量Kg Protection level IP	670

温馨提示：法兰连接尺寸均可非标定制
Warm reminder: Flange connection size can be customized

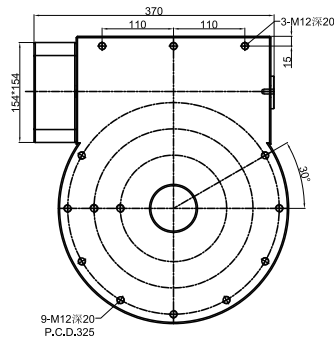
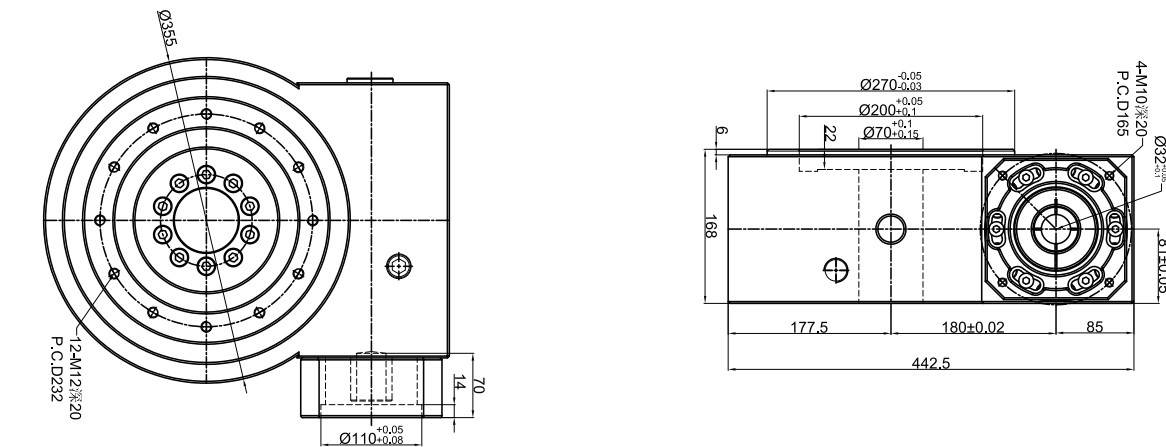
DT105-C-24-L



规格 Specifications	DT105-C-24-L	定位精度arc-sec Positioning accuracy arc-sec	±20
减速比i Reduction ratio i	1:24	重复定位精度arc-sec Repeat positioning accuracy (sec)	±10
适配马达 Applicable motor	伺服马达+行星减速机 Servo motor + planetary reducer	旋转平台平行度mm Parallelism of rotary table (mm)	±0.005
容许惯性力矩 Kg·m(Nm) Allowable moment of inertia	45(441)	旋转平台同心度mm Rotating platform concentricity mm	±0.01
容许转速 r/min Allowable speed (r/min)	<1000	精度寿命hr Accuracy life hr	20000
容许径向载荷 Nm Allowable radial load (Nm)	3700	保护等级 Protection level IP	40
容许轴向载荷 Nm Allowable axial load (Nm)	4200	重量Kg Protection level IP	25

温馨提示：法兰连接尺寸均可非标定制
Warm reminder: Flange connection size can be customized

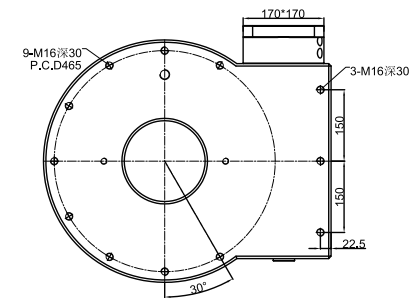
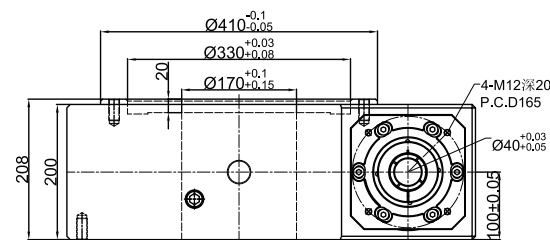
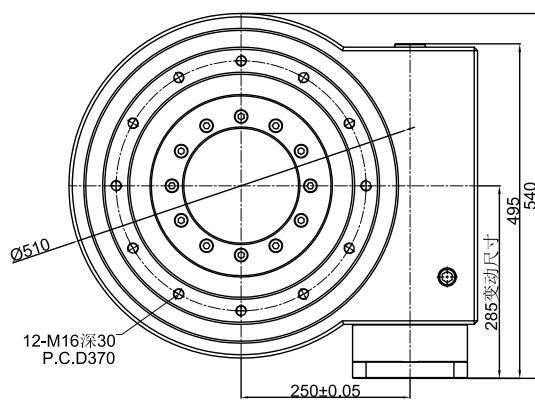
DT180-C-24-L



规格 Specifications	DT180-C-24-L	定位精度arc-sec Positioning accuracy arc-sec	± 30
减速比i Reduction ratio i	1:24	重复定位精度arc-sec Repeat positioning accuracy (sec)	± 10
适配马达 Applicable motor	伺服马达+行星减速机 Servo motor + planetary reducer	旋转平台平行度mm Parallelism of rotary table (mm)	± 0.005
容许惯性力矩 Kg·m(Nm) Allowable moment of inertia	980 (9605)	旋转平台同心度mm Rotating platform concentricity mm	± 0.01
容许转速 r/min Allowable speed (r/min)	<1000	精度寿命hr Accuracy life hr	20000
容许径向载荷 Nm Allowable radial load (Nm)	20620	保护等级 Protection level IP	40
容许轴向载荷 Nm Allowable axial load (Nm)	26800	重量Kg Protection level IP	185

温馨提示：法兰连接尺寸均可非标定制
Warm reminder: Flange connection size can be customized

DT250-C-24-L



规格 Specifications	DT250-C-24-L	定位精度arc-sec Positioning accuracy arc-sec	± 30
减速比i Reduction ratio i	1:24	重复定位精度arc-sec Repeat positioning accuracy (sec)	± 10
适配马达 Applicable motor	伺服马达+行星减速机 Servo motor + planetary reducer	旋转平台平行度mm Parallelism of rotary table (mm)	± 0.005
容许惯性力矩 Kg·m(Nm) Allowable moment of inertia	16500(160170)	旋转平台同心度mm Rotating platform concentricity mm	± 0.01
容许转速 r/min Allowable speed (r/min)	<1000	精度寿命hr Accuracy life hr	20000
容许径向载荷 Nm Allowable radial load (Nm)	38310	保护等级 Protection level IP	40
容许轴向载荷 Nm Allowable axial load (Nm)	49800	重量Kg Protection level IP	360

温馨提示：法兰连接尺寸均可非标定制
Warm reminder: Flange connection size can be customized

中空旋转平台系统构成

Hollow rotating platform system composition

标准配置 Standard configuration	
平台本体×1 台 Platform body x 1 piece	原点传感器套件1 套 Origin sensor kit 1 set
感应片 1 件 Sensor sheet 1 piece	传感器安装支架1 套 Sensor mounting bracket 1 set

系统构成示意图

System composition diagram



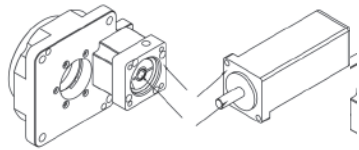
选购配件：以上选购配件仅供参考，用户可根据设备需求选择搭配购买
Optional accessories: The above optional accessories are for reference only. Users can choose and purchase according to their equipment needs.

中空旋转平台与马达安装说明

Instructions for installing the motor and the hollow rotating base

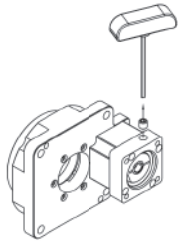
马达安装说明

Instructions for installing the motor



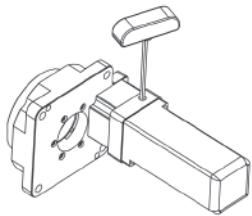
首先对马达和旋转平台的尺寸进行匹配，并清除表面所有异物。

First, match the size of the motor and the rotating base, and remove all protruding objects from the surface.



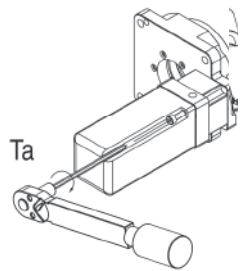
拆下转接法兰上的螺旋塞，然后调整位置，直至能够看到紧固螺栓^{注1}。

Remove the screw plug from the converter flange and adjust the position until the fastening bolts are visible."



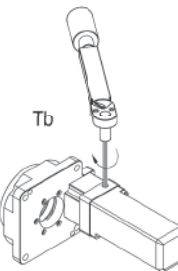
将马达与转接法兰位置调整好并轻轻旋紧紧固螺栓，直至锁紧环不再空转。

Adjust the position of the motor and converter flanges and gently tighten the fixing bolts until the locking ring no longer rotates at idle.



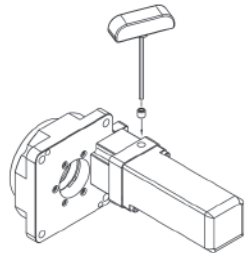
对角初步固定螺栓，完成第⑤步之后，参照紧固扭矩标准Ta^{注2}，旋紧紧固螺栓。

Align the preliminary fixing bolts. After completing step 5, refer to the Ta" torque standard and tighten the tightening bolts.



参照紧固扭矩标准Tb^{注2}，旋紧紧固螺栓。

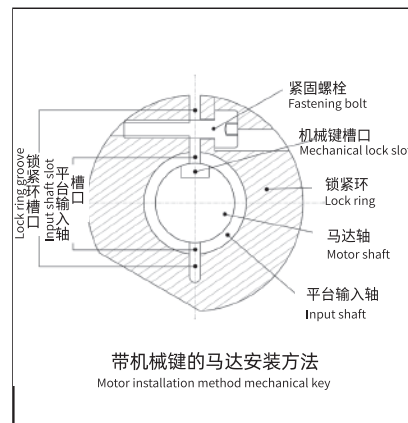
Refer to the Tb" torque standard and tighten the tightening bolts.



紧固螺旋塞。

Tighten the screw plug.

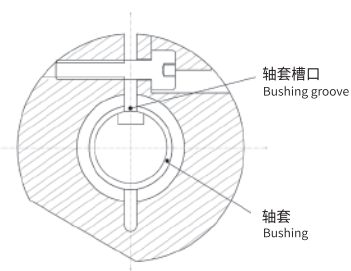
注1：如何安装马达 Note 1: How to install the motor



拔出机械键，调整锁紧环的位置，使其槽口与旋转平台输入轴的槽口对齐，再给平台输入轴轴孔和马达轴抹上润滑脂，插入马达轴，使机械键槽口与锁紧环槽口对齐，以便最大限度地紧固锁紧环的紧固螺栓，使其连接更牢固。

带机械键的马达安装方法
Motor installation method mechanical key

Pull out the mechanical key and adjust the position of the locking ring so that its groove is aligned with the groove of the pump inlet on the rotating platform. Align, then apply grease to the input shaft hole of the platform and the motor shaft, install the motor pump, and align the mechanical locking slot with the locking ring slot to tighten the locking ring's fastening bolts to the maximum, making the connection more solid.



带轴套的安装方法
Bushing installation method

由于马达轴径过小，不能与平台输入轴轴孔匹配时，可加入轴套进行调整，其安装方法与带机械键的马达安装方法一样，只需要将轴套放入并与锁紧环的开槽口对齐，再旋紧锁紧环的紧固螺栓即可。

注2：扳手螺栓紧固转矩 Wrench bolt tightening torque

扳手螺栓尺寸 Sakate bolt size	马达安装Ta(8.8T) Install Ta engine (8.8T)		锁紧环安装Tb(12.9T) Install Tb lock ring (12.9T)	
	N.m	kgf.cm	N.m	kgf.cm
M3	1.28	13	2.15	22
M4	2.9	30	4.95	50
M5	5.75	59	9.7	99
M6	9.9	101	16.5	168
M8	24	245	40	408
M10	48	489	81	826
M12	83	846	140	1428
M14	132	1346	220	2243
M16	200	2039	340	3467

中空旋转平台安装说明

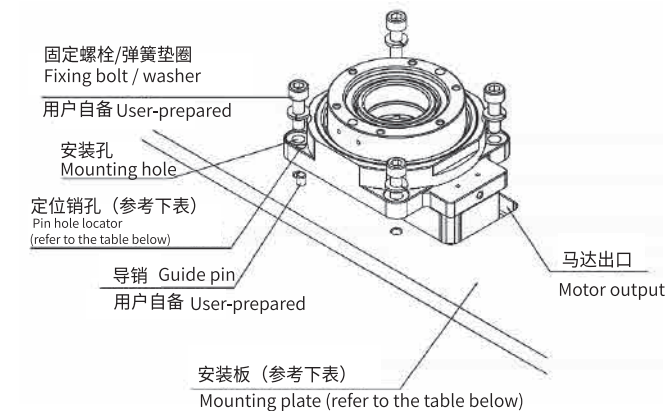
Hollow Rotating Platform Installation Instructions

◆ 如何安装中空旋转平台

How to Install the Hollow Rotating Platform

在机器安装板上留出马达出口，以便露出马达。利用2个定位销孔，将中空旋转平台安装到下图所示的机器安装板上。这些安装孔用于在机器上准确定位中空旋转平台，务必将定位销牢固固定在安装板上。

Leave a motor socket on the machine mounting plate to expose the motor. Use 2 locating pin holes to mount the hollow rotating platform to the machine mounting plate as shown below. These mounting holes are used to accurately position the hollow rotating platform on the machine, ensuring that the locating pins are firmly attached to the mounting plate.

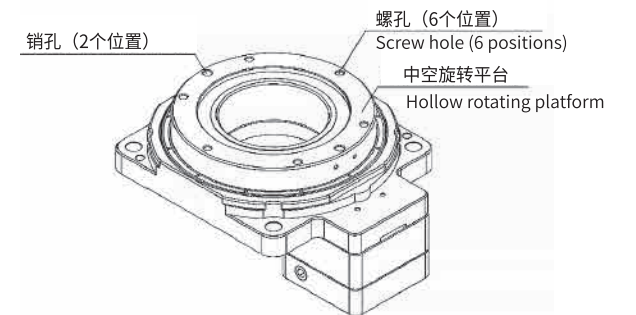


◆ 如何在中空旋转平台上安装负载

How to Install the Load on the Hollow Rotating Platform

使用中空旋转平台上的6处安装螺孔安装负载。中空旋转平台上有2个安装负载用的销孔，可用于确定负载的位置，务必将定位销牢固固定在负载上。

Use 6 mounting screw holes on the hollow rotating platform to install the load. There are 2 locating holes on the hollow rotating platform for installing the load, which can be used to determine the position of the load. Ensure that the locating pins are firmly fixed on the load.



中空旋转平台选购要点

Key points when purchasing a hollow rotating platform

- 计算负载/搬运物转动惯量 (Jw) Calculation of load/carrying moment of inertia (Jw)

搬运物的转动惯量须以传动装置转动惯量的30倍以下为标准。

The moment of inertia of the transported object must be less than 30 times the moment of inertia of the actuator.

- 计算加速转矩 (Ta) 参考以下公式 Calculate the acceleration torque (Ta) according to the following formula

$$\text{加速转矩 Acceleration torque } Ta[N \cdot m] = (J_M + J_A + J_W) \cdot \frac{\pi}{30} \cdot \frac{(N_2 - N_1)}{t_1}$$

J_M: 马达转动惯量 moment of inertia achieved [kg·m²]

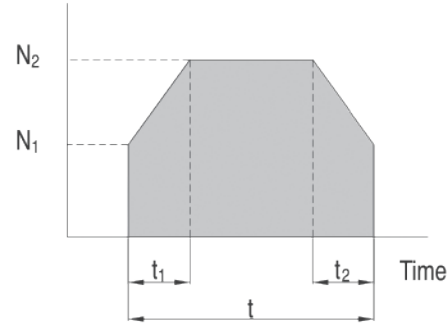
J_A: 机构转动惯量 Moment of inertia mechanism [kg·m²]

J_W: 负载转动惯量 Moment of inertia of the load [kg·m²]

N₂: 工作转速 Working speed [r/min]

N₁: 启动转速 启动速度 [r/min]

t₁: 加速 (减速) 时间 Acceleration (deceleration) time [S]



- 计算所需转矩 Calculate the required torque

所需的转矩是通过摩擦阻抗引起的负载转矩与转动惯量引起的加速转矩相加之和乘以安全系数计算得出的。所需转矩 T = (负载转矩 [N.m] + 加速转矩 [N.m]) × 安全系数

$$= (T_L + T_a) \times S$$

The required torque is calculated by the sum of the load torque caused by the frictional resistance and the acceleration torque caused by the moment of inertia multiplied by the safety factor. Required torque T = (load torque [N.m] + acceleration torque [N.m]) × safety factor

$$= (T_L + T_a) \times S$$

安全系数 S 大于 1.5 Safety factor S is greater than 1.5

- 选定马达所需的转矩 T 必须处于转速-转矩的规格范围之内

The torque T required for the selected motor must be within the speed-torque parameter range

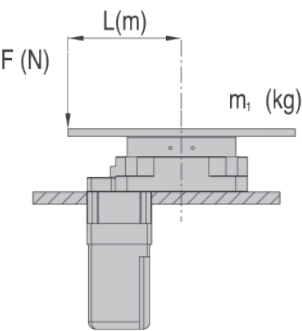
中空旋转平台选购要点

Main points to note when purchasing a hollow rotating platform

- 轴向负载, 惯性力矩负荷的计算 Calculation of axial load and moment of inertia

在中空旋转平台上安按照如下所示施加负载时, 请确保采用以下公式计算得出轴向负载和惯性力矩负荷处于规定范围内。

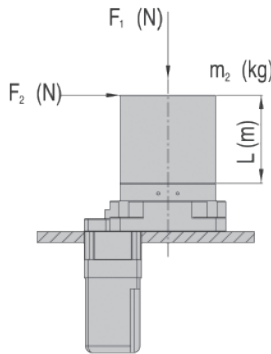
When applying the load as shown below to the hollow rotating platform, it must be ensured that the axial load and moment of inertia calculated by the following formula are within the specified range.



轴向负载 Axial load [N]: $F_t = F + m_1 \times g$

惯性力矩负荷 Moment of inertia load [N.m]: $M = F \times L$ 惯性力矩负荷 Moment of inertia load [N.m]: $M = F_2 \times (L + A)$

g: 重力加速度 Gravitational acceleration 9.807 [m/s²] g: 重力加速度 Gravitational acceleration 9.807 [m/s²]



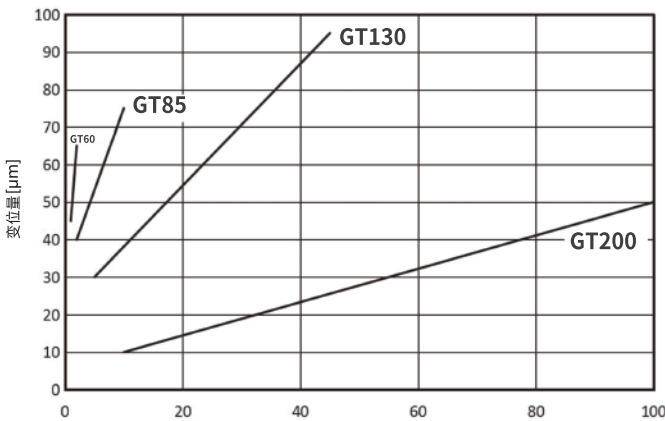
轴向负载 Axial load [N]: $F_t = F + m_2 \times g$

型号	A
GT60	0.010
GT85	0.015
GT110	0.015
GT130	0.017
GT170	0.025
GT200	0.033
GT280	0.055
GT370	0.090

- 平台刚性参考

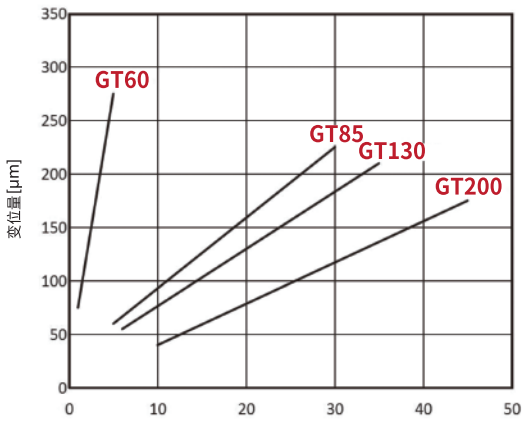
不同型号的旋转平台采用了不同频型的支撑轴承, 对旋转平台的容许惯性力矩负荷有一定影响, 即型号越大, 容许的惯性力矩负荷也越大。但对于惯性力矩负荷的变位量则会越小, 详情参考以下图表 (L=200mm)。

Different models of rotating platforms use different frequency support bearings, which have a certain impact on the allowable moment of inertia load of the rotating platform, that is, the larger the model, the larger the allowable moment of inertia. However, the displacement of the moment of inertia will be smaller. For details, please refer to the chart below (L = 200 mm).



GT系列惯性力矩负荷 [N.m]

GT series moment of inertia load [N.m]



GT系列惯性力矩负荷 [N.m]

GT series moment of inertia load [N.m]

