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苏州通又盛电子科技有限公司

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Qr code of the official account

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苏州通又盛电子科技有限公司

伺服电缸选型手册

通又盛 TONGYOUSHENG

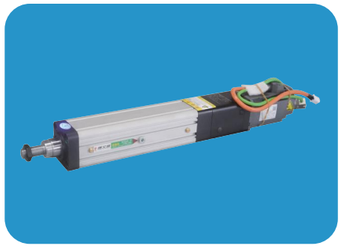
高精密电动缸源头厂家

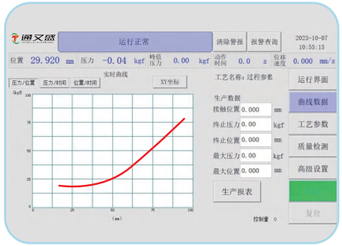
Original manufacturer of high-precision electric cylinders

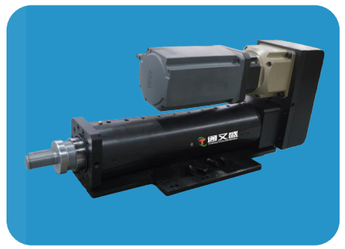
ISO 9001:2015

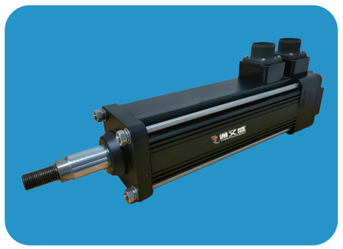
负载达100T

The load reaches 100T









创新·超越 让工厂智造高效便捷!

Innovation and transcendence make factory intelligent manufacturing efficient and convenient!

COMPANY PROFILE

公司简介

苏州通又盛电子科技有限公司作为一家集研发、生产与销售于一体的高新技术企业，专注于电动缸、滑台模组、直线电机、伺服压机、机器人第七轴以及六自由度平台等高端自动化设备及配件的研发、制造与销售，我们深知技术创新是企业发展的核心驱动力。在研发领域，通又盛汇聚了一支由行业精英组成的研发团队，他们不仅具备深厚的学术造诣，更拥有丰富的实战经验。这支团队如同企业的创新引擎，不断突破技术瓶颈，推动产品迭代升级，引领行业技术潮流。我们自豪地拥有众多核心技术专利，这些专利不仅彰显了我们在自动化领域的深厚底蕴，更为我们提供了强大的市场竞争力。我们引进了国际先进的研发设备，专业化的设计软件以及高效的数控加工设备，这些尖端科技的应用，为我们的研发工作提供了强有力的支持。

历经数载不懈探索与卓越实践，通又盛已在行业内树立了“规模最大、产能领先、品质卓越”的标杆形象，矢志不渝地致力于推动工业4.0时代的革新与发展。我们携手众多国有企业、国防科技单位及知名高等学府，构建产学研深度融合的合作网络，共同探索智能制造的新边界。

我们深谙客户需求，致力于提供操作便捷、效能非凡、性能稳定且性价比出众的产品与设备。每一款产品都是我们对技术创新与客户价值的深刻诠释，旨在助力全球合作伙伴在智能制造的浪潮中乘风破浪，共创辉煌。通又盛以智慧引领未来，以品质铸就信赖，携手各界精英，共绘工业4.0时代的宏伟蓝图!

Suzhou Tongyousheng Electronic Technology Co., LTD. as a high-tech enterprise integrating R&D, production and sales, specializes in the R&D, manufacturing and sales of high-end automation equipment and accessories such as electric cylinders, slide table modules, linear motors, servo presses, seventh axes of robots and six-degree-of-freedom platforms. We are well aware that technological innovation is the core driving force for the development of an enterprise. In the field of R&D, Tongyousheng has gathered a research and development team composed of industry elites. They not only have profound academic attainments but also possess rich practical experience. This team is like the innovation engine of the enterprise, constantly breaking through technical bottlenecks, promoting product iteration and upgrading, and leading the technological trend of the industry. We are proud to own a large number of core technology patents. These patents not only demonstrate our profound background in the field of automation, but also provide us with strong market competitiveness. We have introduced advanced international R&D equipment, professional design software and efficient CNC processing equipment. The application of these cutting-edge technologies has provided strong support for our R&D work.

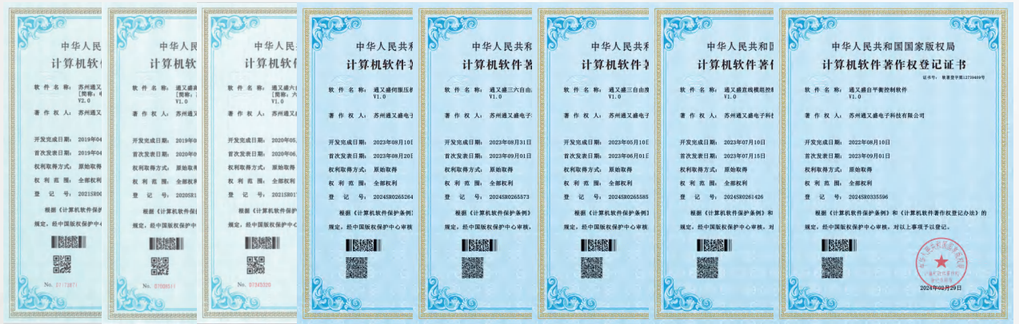
After years of unremitting exploration and outstanding practice, Tongyousheng has established a benchmark image of "the largest scale, leading production capacity and excellent quality" in the industry, and is unwaveringly committed to promoting innovation and development in the era of Industry 4.0. We have joined hands with numerous state-owned enterprises, defense science and technology institutions, and renowned universities to build a deeply integrated cooperation network of industry, academia, and research, and jointly explore new boundaries of intelligent manufacturing.

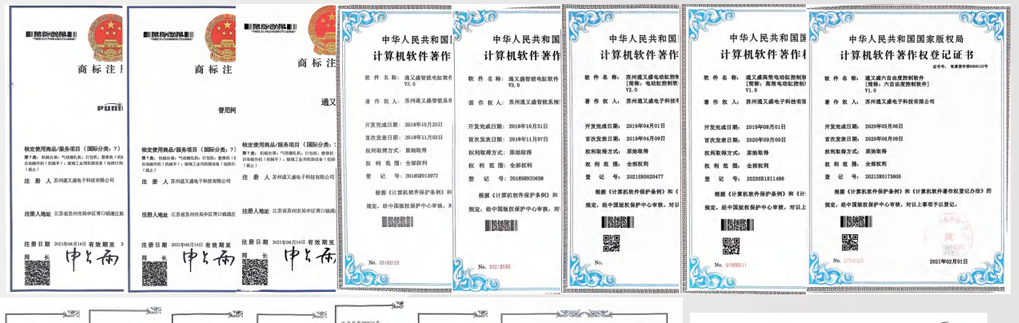
We have a deep understanding of our customers' needs and are committed to providing products and equipment that are easy to operate, highly efficient, stable in performance and outstanding in cost performance. Each product is a profound interpretation of our technological innovation and customer value, aiming to assist global partners in riding the waves of intelligent manufacturing and creating brilliance together. Tongyousheng leads the future with wisdom, builds trust with quality, and joins hands with elites from all walks of life to jointly draw a grand blueprint for the era of Industry 4.0!

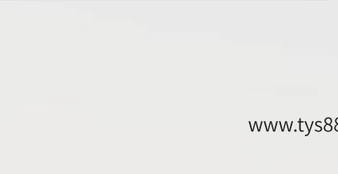
目录 Contents

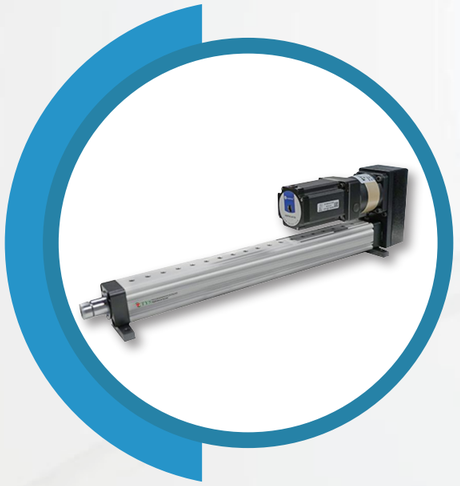
PATENT CERTIFICATE

专利证书









折返式电动缸
Return Type Electric Cylinder

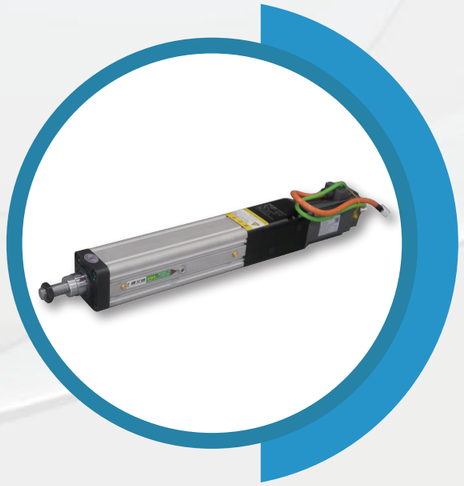
折返式电动缸是伺服电机通过同步带、同步带轮与丝杆传动，选用高强度、小间隙、长寿命等特点的同步带，使整个电动缸具有较高的控制和控制精度;由于整体长度比较短，适用于安装位置比较小的场合。伺服电机、减速机与电动缸配合灵活，安装容易设定简单、使用方便。

The returnable electric cylinder is driven by a servo motor through synchronous belts, synchronous pulleys and lead screws. Synchronous belts with high strength, small clearance and long service life are selected, which enables the entire electric cylinder to have high control and control accuracy. Due to its relatively short overall length, it is suitable for occasions where the installation space is relatively small. The servo motor, reducer and electric cylinder are flexible in coordination, easy to install, simple to set up and convenient to use.

直联式电动缸
Direct-coupled Electric Cylinder

直联式电动缸是伺服电机通过联轴器与丝杆直接连接，使伺服电机的编码器直接反馈电动缸活塞的位移量，减少中间环节的惯量和间隙，提高了控制精度伺服电机与电动缸整体相连，安装容易，设定简单、使用方便。

The direct-coupled electric cylinder is a type where the servo motor is directly connected to the lead screw through a coupling, allowing the encoder of the servo motor to directly feedback the displacement of the electric cylinder piston. This reduces the inertia and clearance in the intermediate links and improves the control accuracy. The servo motor and the electric cylinder are integrally connected, making installation easy, setting simple, and usage convenient.



产品特点
Product Features

电动缸是将电机的旋转通过丝杆和丝杆螺母的机械运动转化为推杆(活塞杆)的直线运动；利用伺服电机的闭环控制特性，可以方便实现高强度、高速度、高精度运动、大推力、运动平稳、低噪音，特有防转功能保证设备的高精度位置控制以及高安全性，利用现代化运动控制技术、数控技术及总线(网络)技术，实现程序化、总线(网络)化控制。能有效消除液压系统的跑、冒、滴、漏现象及气动系统的噪音，是一种更环保、更节能、使用方便、承载范围广的新型执行机构。与PLC等控制系统连接，实现了液压缸和气缸传动所不能实现的精密运动控制TYSC系列电动缸集成了高精度丝杆、交流伺服电机、伺服驱动器、模块化设计等技术，模块化组合丰富了产品的组合变化，电动缸可以直接与电机减速电机、减速机几特殊功能附件的任意组合，整个电动缸具有结构紧、惯量小、响应快、低噪音、长寿命、安装和使用方便等特点，一体化设计，为客户提供多种轻而易举的选择，电动缸的主要零部件均采用国外名牌产品，性能稳定、故障率低、可靠性高。

The electric cylinder converts the rotation of the motor into the linear motion of the push rod (piston rod) through the mechanical movement of the lead screw and the lead screw nut. By taking advantage of the closed-loop control characteristics of servo motors, high-intensity, high-speed, high-precision movement, large thrust, smooth movement and low noise can be conveniently achieved. The unique anti-rotation function ensures the high-precision position control and high safety of the equipment. With modern motion control technology, numerical control technology and bus (network) technology, programmed and bus (network) control can be realized. It can effectively eliminate the leakage of hydraulic systems and the noise of pneumatic systems. It is a new type of actuator that is more environmentally friendly, energy-saving, convenient to use and has a wide range of load-bearing capacity. Connected with control systems such as PLC, it realizes precise motion control that cannot be achieved by hydraulic cylinders and pneumatic cylinder transmission. The TYSC series of electric cylinders integrate high-precision lead screws, AC servo motors, servo drivers, modular design and other technologies. The modular combination enriches the product's combination variations. The electric cylinder can be directly combined with motors, reducers, and several special functional accessories in any way. The entire electric cylinder features a compact structure, small inertia, fast response, low noise, long service life, and convenient installation and use. It is designed as an integrated unit, providing customers with a variety of easy choices. The main components of the electric cylinder are all made of well-known foreign brands. Stable performance, low failure rate and high reliability.

主要特性
Main Features

铝合金外壳(可非标定制)
电镀推杆或不锈钢推杆
丝杆：滚珠丝杆、滑动丝杆(T型丝杆)、滚柱丝杆
防旋转导向
推力轴承、角接触轴承
防尘密封

限位/回零传感器
最大推力:100t
最大行程：3000mm
最高速度：2500mm/s
最大负载与最高速度无法同时满足
重复定位精度：±0.02mm（可选高精度±0.01mm）

Aluminum alloy shell (customizable to non-standard specifications)
Electroplated push rods or stainless steel push rods
Lead screws: ball lead screws, sliding lead screws (T-type lead screws), roller lead screws
Anti-rotation guidance
Thrust bearings, angular contact bearings
Dust-proof seal

Limit/reset sensor
Maximum thrust :100 tons
Maximum stroke: 3000mm
Maximum speed: 2500mm/s
The maximum load and the highest speed cannot be met simultaneously
Repeat positioning accuracy: ±0.02mm (high precision ±0.01mm is optional)

使用寿命
Service Life

TYSC系列电动缸的寿命主要取决于丝杆和轴承的寿命。我们的设计将轴承的承载能力大于丝杆。其影响因素是金属的疲劳，在不同的速度下负载(受力)不同，作用时间不同，加速度不同都会有影响，所以很难精确确定。建议在估算时，按照同样丝杆在同种环境下工作，以其使用寿命的90%计算。

The service life of the TYSC series electric cylinders mainly depends on the service life of the lead screw and bearings. Our design ensures that the load-bearing capacity of the bearing is greater than that of the lead screw. The influencing factor is the fatigue of the metal. Different loads (forces), different action times and different accelerations at different speeds will all have an impact, so it is difficult to determine precisely. It is recommended that when estimating, the service life of the same lead screw working in the same environment be calculated at 90%.

技术说明
Technical Description

电动缸总长：参照尺寸图
最大推力为最大瞬时推力，连续推力应小于额定推力80%。静载荷可达最大推力。最大速度与行程和导程有关，滑动丝杆（T型丝杆)的速度一般应该小于100mm/s。
最大推力与行程和速度有关，行程长、速度快则推力有所降低。
最大速度和最大推力通常不会同时满足。
丝杆长度和直径用于计算转动惯量。
无负载转矩指不加负载时需要的最小起到转矩。
推力转矩系数指1Nm的转矩所产生的推力。
回程间隙可以采用双螺母消除，总长度则加大，需要特殊订货。
采用研磨丝杆可以提高精度，也可以降低噪音，但是货期会变长。
电动缸的精度受丝杆精度和导向精度的影响。

Total length of the electric cylinder: Refer to the dimension drawing
The maximum thrust is the maximum instantaneous thrust, and the continuous thrust should be less than 80% of the rated thrust. The static load can reach the maximum thrust. The maximum speed is related to the stroke and lead. The speed of the sliding lead screw (T-type lead screw) should generally be less than 100mm/s.
The maximum thrust is related to the stroke and speed. If the stroke is longer and the speed is faster, the thrust will decrease.
The maximum speed and the maximum thrust are usually not met simultaneously.
The length and diameter of the lead screw are used to calculate the moment of inertia.
No-load torque refers to the minimum torque required when no load is applied.
The thrust-torque coefficient refers to the thrust generated by a torque of 1Nm.
The backlash can be eliminated by using double nuts, and the total length will be increased. Special orders are required.
The use of ground lead screws can enhance precision and reduce noise, but the delivery time will be prolonged.
The accuracy of the electric cylinder is affected by the accuracy of the lead screw and the guiding accuracy.

选型指导
Selection Guidance

受力分析：电动缸主要承受沿推杆方向的轴向负载，可产生轴向的拉力和推力。对于径向负载（即垂直于推杆方向的负载)，承较小，并且随着推杆的伸出而降低。推杆全部伸出时，侧向承载最小可选择2杆和4杆直线导向机构加以改善。

自锁性：滚珠丝杆不能自锁，可选带安全制动的电机；滑动丝杆(T型丝杆)可以自锁。
推力计算公式F=T*2π*0.9*1000*N/9.8*P　F：负载(KG)、T:扭矩(Nm)、N:减速比(N21)、P:丝杆导程(mm)
精度分析：精度的选择，在大多数情况下按重复定位精度考虑选择，同时考虑电机的精度。直线度不应以电动缸的推杆作为导向，用户应设计自己的导向机构。电机并联(折返式)比直联(直联式)精度会有所下降，因为折返式中间使用同步带和同步带轮连接。
速度：高速运动(大于200mm/s)时要特别考虑寿命，同时，承载能力和精度都会有所下降。滑动丝杆(T型丝杆)可以自锁，适用于低速条件(小于100mm/s)
行程：电动缸选型时的行程应比实际使用的有效行程大10-20mm，是为了推杆碰到限位后减速停下，需要留出空间
运行周期：频繁运行(大于50%)或连续运行应选择滚珠丝杆
电机选择：交流伺服电机精度高、速度快、推力大。步进电机精度较高、速度慢、容易丢步。推小(一般小于200KG)。具体电机选择可和技术员沟通。

Force analysis: The electric cylinder mainly bears the axial load along the direction of the push rod, which can generate axial tensile and thrust forces. For radial loads (i.e., loads perpendicular to the direction of the push rod), the load is relatively small and decreases as the push rod extends. When the push rod is fully extended, the minimum lateral load can be improved by choosing a 2-rod or 4-rod linear guiding mechanism.
Self-locking property: The ball screw cannot self-lock. A motor with safety braking can be selected. The sliding lead screw (T-type lead screw) can self-lock.
Thrust Calculation formula of F = T*2π * 0.9 * 9.8 * 1000 * N/P F: load (KG), T: torque (Nm), N: reduction ratio (N21), P: screw lead (mm)
Accuracy analysis: In most cases, the selection of accuracy is based on the repeatability positioning accuracy, while also taking into account the accuracy of the motor. The straightness should not be guided by the push rod of the electric cylinder. Users should design their own guiding mechanism. The accuracy of the parallel connection (return type) of the motor will be lower than that of the direct connection (direct connection type), because the return type uses synchronous belts and synchronous pulleys for connection in the middle.
Speed: When moving at high speed (greater than 200mm/s), special consideration should be given to the service life. At the same time, both the load-bearing capacity and accuracy will decline. The sliding lead screw (T-type lead screw) can self-lock and is suitable for low-speed conditions (less than 50mm/s).
Stroke: When selecting an electric cylinder, the stroke should be 10-20mm larger than the actual effective stroke in use. This is to allow the push rod to decelerate and stop when it touches the limit, and space needs to be left
Operating cycle: Ball screws should be selected for frequent operation (more than 50%) or continuous operation
Motor selection: AC servo motors feature high precision, fast speed and large thrust. Stepper motors have high precision, slow speed and are prone to losing steps. Push small (generally less than 200KG). The specific motor selection can be communicated with the technician.

电机和减速机选择
Selection Of Motors And Reducers

电动缸可以匹配多种电机，常用的有交流伺服电机、步进电机、减速电机、防爆电机等。选择电机时，应注意电机的外形尺寸和输出轴尺寸不能太大，电机法兰尺寸与所选电动缸的截面尺寸相差不大；减速机选择时应注意是否和电机匹配，注意电机输出轴尺寸和减速机输入轴是否匹配，电机和减速机法兰板是否匹配。若有特殊要求，应与技术员沟通是否可行。

Electric cylinders can be matched with various types of motors. Commonly used ones include AC servo motors, stepper motors, reduction motors, explosion-proof motors, etc. When choosing a motor, it should be noted that the external dimensions of the motor and the output shaft dimensions should not be too large, and the flange dimensions of the motor should not differ much from the cross-sectional dimensions of the selected electric cylinder. When choosing a reducer, it is necessary to pay attention to whether it matches the motor, whether the output shaft size of the motor matches the input shaft of the reducer, and whether the flange plates of the motor and the reducer match. If there are any special requirements, communicate with the technician to see if they are feasible.

TYSC 030 – L100 – B 2.5 R E – H1 K1 S3 □/□W

电动缸系列 Electric cylinder series

截面尺寸(mm) Section size
30x30

行程(mm) Travel distance
20~100
20间隔
20mm Pitch

丝杆类型 Screw type
A:梯形 Trapezoid
B:滚珠 Ball bearings

丝杆导程 Lead Screw
2.5mm

减速比/功率 Reduction /ratio power

推杆设计 Push rod design
R:可旋转 Rotatable
无:不可旋转 Non rotatable

电机连接 Motor connection
E:直连 Direct connection
F:折返 Turn back
L:转角 Corner

电缸安装方式 Installation method of electric cylinder
H1:底部螺纹 Bottom thread
H2:底板 Base plate
H3:前法兰 Front flange
H4:尾部法兰 Tail flange
H5:尾部凸销 Tail protruding pin
H6:尾部销孔 Tail pin hole
H7:客户定制 Customer customization

负载连接方式 Load connection method
K1:外螺纹 External thread
K2:内螺纹 Internal thread
K3:杆端关节轴承 Rod end joint bearing
K4:杆端双叉销孔 Double fork pin hole at the rod end
K5:浮动接头 Floating connector
K6:用户定制 User customization

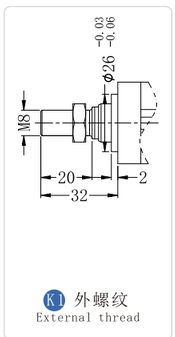
传感器 sensor
S3:3只标配常开 3 pcs standard N.O.
S2.1:2常闭1常开 2N.C.1N.O.
N3:3只NPN常开 3 pcs NPN N.O.
P3:3只PNP常开 3 pcs PNP N.O.
N2.1:NPN 2常闭1常开 NPN 2N.C.1N.O.
P2.1:PNP 2常闭1常开 PNP 2N.C.1N.O.

缸体内径 (mm) Inner diameter of cylinder body	∅20	
缸体外形 (mm) Cylinder body shape	∅30	
丝杆直径 (mm) Screw diameter	∅8	
伺服功率 Servo power	42(步进)	100W
伺服转速(r/min) Servo speed	500	3000
导程(mm) Lead	2.5	2.5
减速比 Reduction ratio	1	1
最高速度(mm/s) Maximum speed	20	125
额定出力(Kg) Rated output	18	20
额定承载 Rated load capacity	25kg	
本体最大承载 Maximum load-bearing capacity of the body	30kg	
有效行程(mm) Effective travel distance	20-100	
重复定位精度(mm) Repetitive positioning accuracy	±0.02/±0.01(研磨丝杆)	
防护等级 Protection grade	Ip65	
有效行程 Effective stroke	20	40
重量kg Weight	0.506	0.558
	行程每增加20mm，重量增加0.052kg For every 20mm increase in travel, the weight increases by0.052kg	

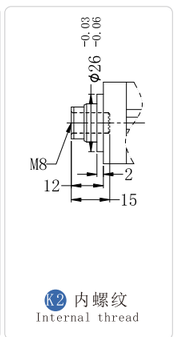
注:其他功率伺服电机匹配参数请与我们联系:400-9977-398
Note: For other matching parameters of power servo motors, please contact us at 400-9977-398

负载连接方式 Load connection method

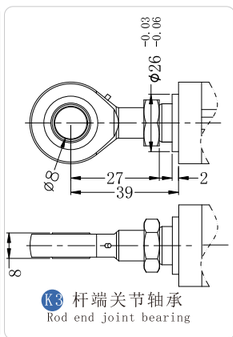
*注:其他连接方式需要定制时请与我司工程师联系
*Note: If other connection methods need to be customized, please contact our engineers



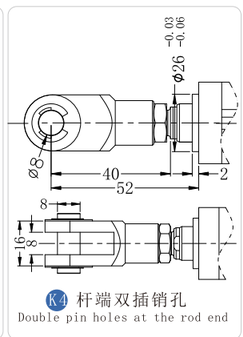
K1 外螺纹 External thread



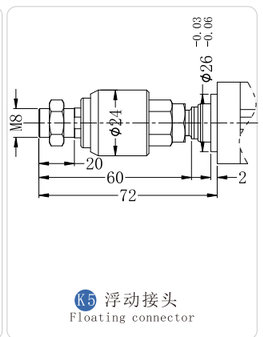
K2 内螺纹 Internal thread



K3 杆端关节轴承 Rod end joint bearing



K4 杆端双插销孔 Double pin holes at the rod end

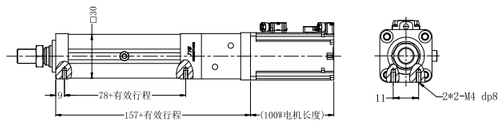


K5 浮动接头 Floating connector

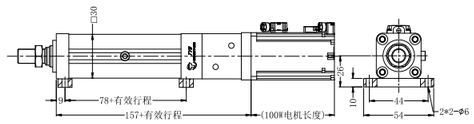
直连式 Direct connection type

2D CAD 3D CAD

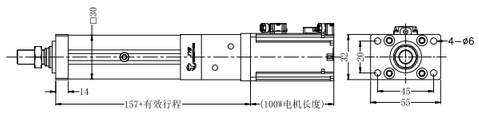
*注:匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



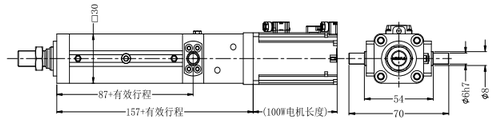
H1 底部螺纹孔 Bottom threaded hole



H2 底板 Base plate



H3 前法兰 Front flange

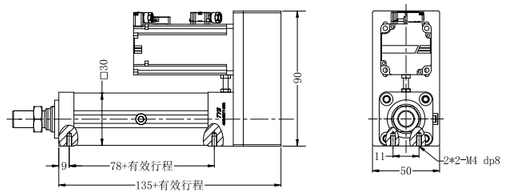


H5 尾部凸销 Tail protruding pin

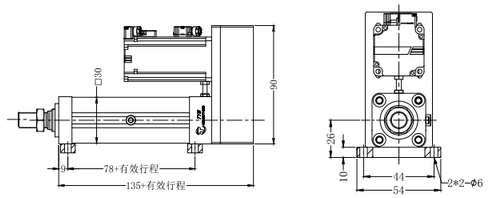
折返式 Foldback

2D CAD 3D CAD

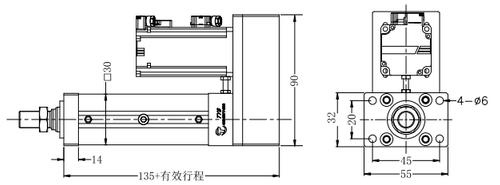
*注:匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



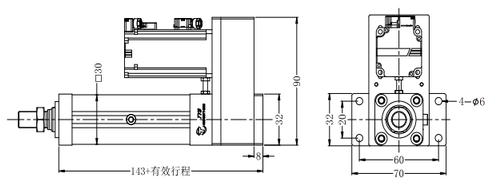
H1 底部螺纹孔 Bottom threaded hole



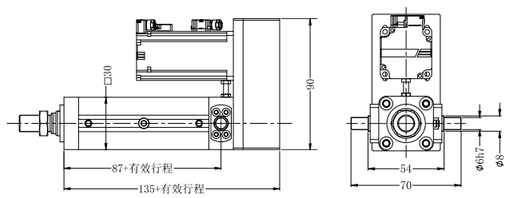
H2 底板 Base plate



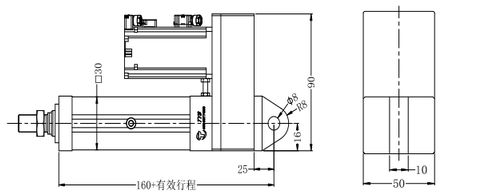
H3 前法兰 Front flange



H4 尾部法兰 Tail flange



H5 尾部凸销 Tail protruding pin



H6 尾部销孔 Tail pin hole

注：折返式行程≤50mm时，电机长度可能会超过前法兰
Note: When the return stroke is ≤50mm, the motor length may exceed the front flange

TYSC 040 – L100 – B 2.5 R E – H1 K1 S3 □/□W

电动缸系列 Electric cylinder series

截面尺寸(mm) Section size
40x40

行程(mm) Travel distance
20~200
20间隔
20mm Pitch

丝杆类型 Screw type
A:梯形 Trapezoid
B:滚珠 Ball bearings

丝杆导程 Lead Screw
2.5mm

减速比/功率 Reduction /ratio power

推杆设计 Push rod design
R:可旋转 Rotatable
无:不可旋转 Non rotatable

电机连接 Motor connection
E:直连 Direct connection
F:折返 Turn back
L:转角 Corner

电缸安装方式 Installation method of electric cylinder
H1:底部螺纹 Bottom thread
H2:底板 Base plate
H3:前法兰 Front flange
H4:尾部法兰 Tail flange
H5:尾部凸销 Tail protruding pin
H6:尾部销孔 Tail pin hole
H7:客户定制 Customer customization

负载连接方式 Load connection method
K1:外螺纹 External thread
K2:内螺纹 Internal thread
K3:杆端关节轴承 Rod end joint bearing
K4:杆端双叉销孔 Double fork pin hole at the rod end
K5:浮动接头 Floating connector
K6:用户定制 User customization

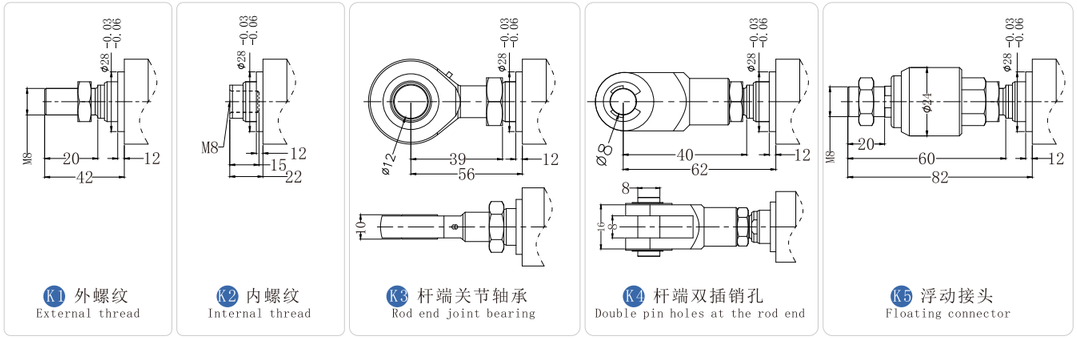
传感器 sensor
S3:3只标配常开 3 pcs standard N.O.
S2.1:2常闭1常开 2N.C.1N.O.
N3:3只NPN常开 3 pcs NPN N.O.
P3:3只PNP常开 3 pcs PNP N.O.
N2.1:NPN 2常闭1常开 NPN 2N.C.1N.O.
P2.1:PNP 2常闭1常开 PNP 2N.C.1N.O.

缸体内径 (mm) Inner diameter of cylinder body	∅25	
缸体外形 (mm) Cylinder body shape	40*40	
丝杆直径 (mm) Screw diameter	∅10	
伺服功率 Servo power	42(步进)	100W
伺服转速(r/min) Servo speed	500	3000
导程(mm) Lead	2.5	2.5
减速比 Reduction ratio	1	1
最高速度(mm/s) Maximum speed	20	125
额定出力(Kg) Rated output	25	30
额定承载 Rated load capacity	30kg	
本体最大承载 Maximum load-bearing capacity of the body	35kg	
有效行程(mm) Effective travel distance	20-200	
重复定位精度(mm) Repetitive positioning accuracy	±0.02	
防护等级 Protection grade	Ip65	
有效行程 Effective stroke	20	40
重量kg Weight	0.725	0.794
	行程每增加20mm，重量增加0.069kg For every 20mm increase in travel, the weight increases by 0.069kg	

注:其他功率伺服电机匹配参数请与我们联系:400-9977-398
Note: For other matching parameters of power servo motors, please contact us at 400-9977-398

负载连接方式 Load connection method

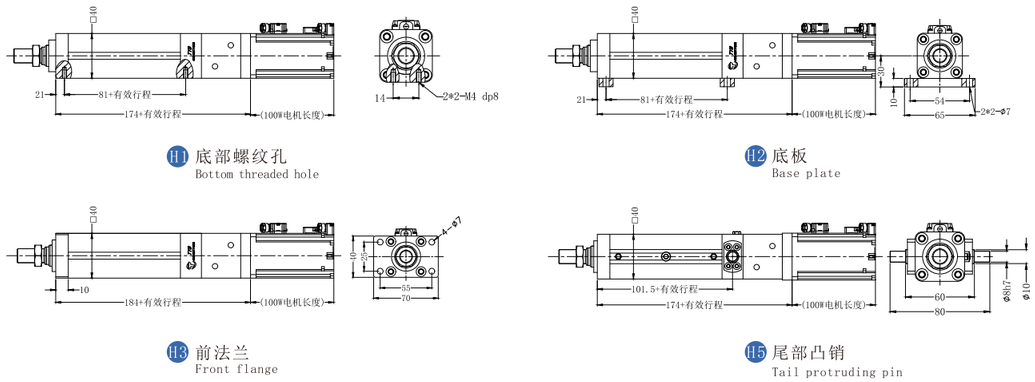
*注:其他连接方式需要定制时请与我司工程师联系
*Note: If other connection methods need to be customized, please contact our engineers



直连式 Direct connection type

2D CAD 3D CAD

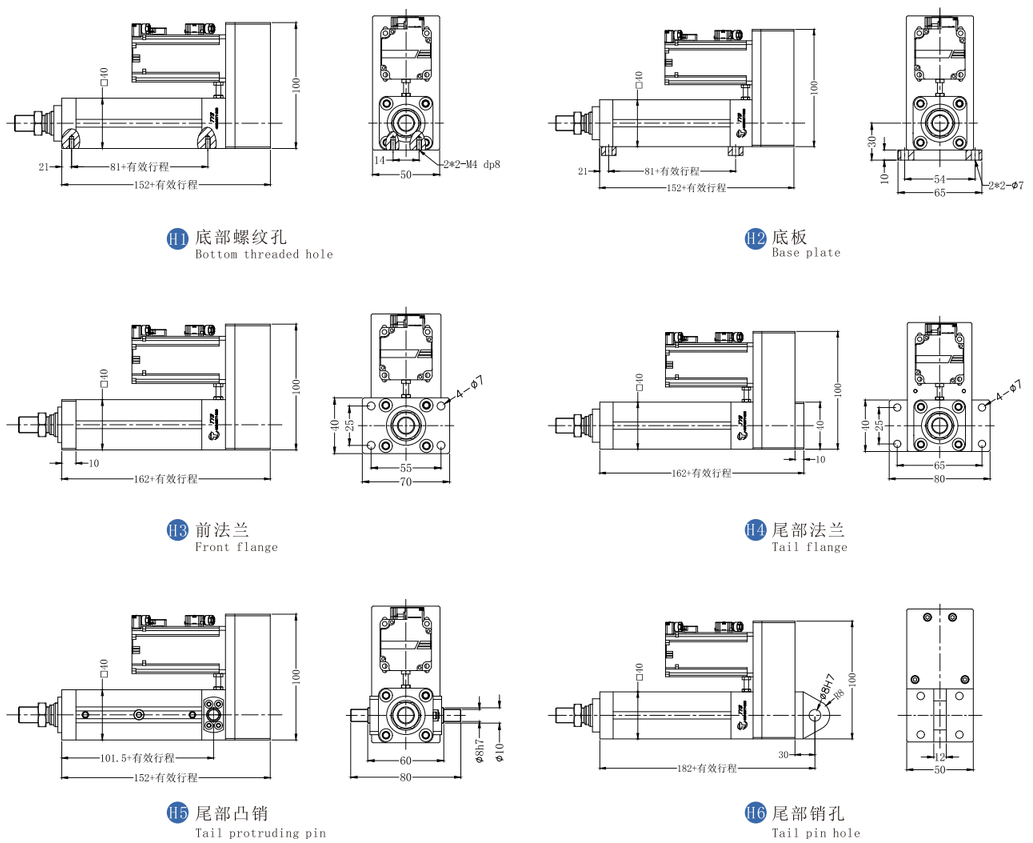
*注:匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



折返式 Foldback

2D CAD 3D CAD

*注:匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



注：折返式行程≤50mm时，电机长度可能会超过前法兰
Note: When the return stroke is ≤50mm, the motor length may exceed the front flange

TYSC 045 – L100 – B 5 R E – H1 K1 S3 □/□W

电动缸系列
Electric cylinder series

截面尺寸(mm)
Section size
44x44

行程(mm)
Travel distance
50~300
50间隔
50mm Pitch

丝杆类型
Screw type
A:梯形
Trapezoid
B:滚珠
Ball bearings

丝杆导程
Lead Screw
5mm

减速比/功率
Reduction /ratio power

推杆设计
Push rod design
R:可旋转
Rotatable
无:不可旋转
Non rotatable

电机连接
Motor connection
E:直连
Direct connection
F:折返
Turn back
L:转角
Corner

电缸安装方式
Installation method of electric cylinder
H1:底部螺纹
Bottom thread
H2:底板
Base plate
H3:前法兰
Front flange
H4:尾部法兰
Tail flange
H5:尾部凸销
Tail protruding pin
H6:尾部销孔
Tail pin hole
H7:客户定制
Customer customization

负载连接方式
Load connection method
K1:外螺纹
External thread
K2:内螺纹
Internal thread
K3:杆端关节轴承
Rod end joint bearing
K4:杆端双叉销孔
Double fork pin hole at the rod end
K5:浮动接头
Floating connector
K6:用户定制
User customization

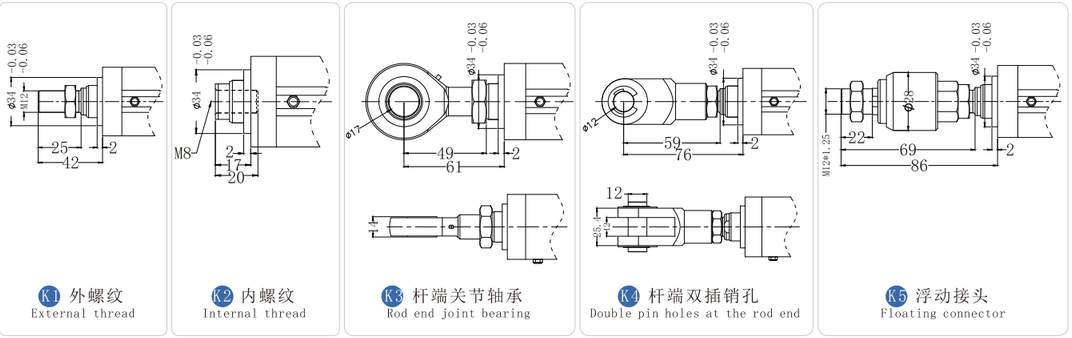
传感器
sensor
S3:3只标配常开
3 pcs standard N.O.
S2.1:2常闭1常开
2N.C.1N.O.
N3:3只NPN常开
3 pcs NPN N.O.
P3:3只PNP常开
3 pcs PNP N.O.
N2.1:NPN 2常闭1常开
NPN 2N.C.1N.O.
P2.1:PNP 2常闭1常开
PNP 2N.C.1N.O.

缸体内径 (mm) Inner diameter of cylinder body	∅32	
缸体外形 (mm) Cylinder body shape	44*44	
丝杆直径 (mm) Screw diameter	∅12	
伺服功率 Servo power	42W	200W
伺服转速(r/min) Servo speed	500	3000
导程(mm) Lead	5	5
减速比 Reduction ratio	1	1
最高速度(mm/s) Maximum speed	250	250
额定出力(Kg) Rated output	28	50
额定承载 Rated load capacity	50kg	
本体最大承载 Maximum load-bearing capacity of the body	70kg	
有效行程(mm) Effective travel distance	50-300	
重复定位精度(mm) Repetitive positioning accuracy	±0.02/±0.01(研磨丝杆)	
防护等级 Protection grade	Ip65	
有效行程 Effective stroke	50	100
重量kg Weight	1.219	1.314
	行程每增加50mm，重量增加0.095kg For every 50mm increase in travel, the weight increases by 0.095kg	

注:其他功率伺服电机匹配参数请与我们联系:400-9977-398
Note: For other matching parameters of power servo motors, please contact us at 400-9977-398

负载连接方式 Load connection method

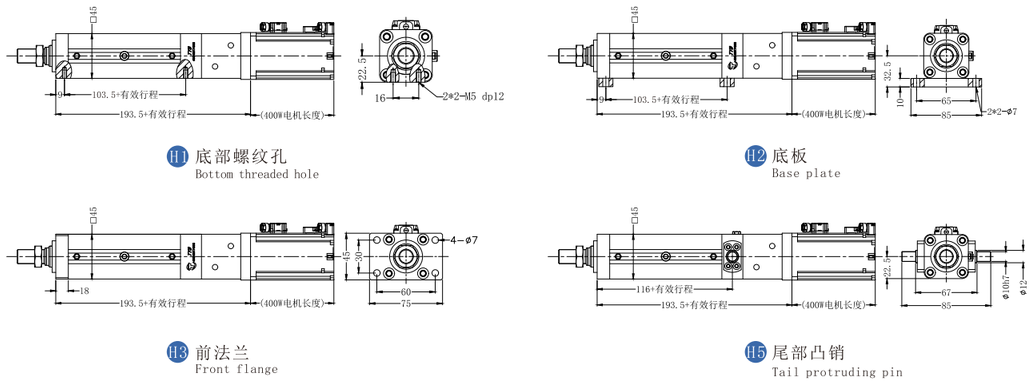
*注:其他连接方式需要定制时请与我司工程师联系
*Note: If other connection methods need to be customized, please contact our engineers



直连式 Direct connection type

2D CAD 3D CAD

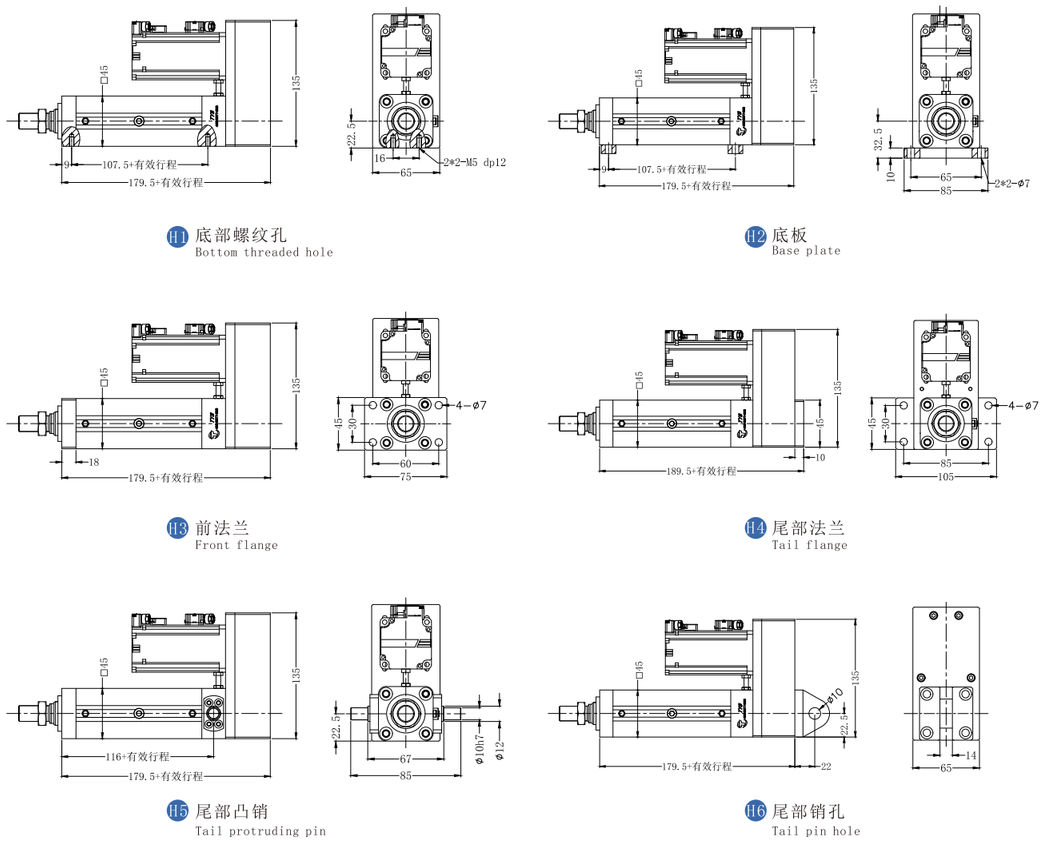
*注:匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



折返式 Foldback

2D CAD 3D CAD

*注:匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



注：折返式行程≤50mm时，电机长度可能会超过前法兰
Note: When the return stroke is ≤50mm, the motor length may exceed the front flange

TYSC 050 – L100 – B 5 R E – H1 K1 S3 □/□W

电动缸系列 Electric cylinder series

截面尺寸(mm) Section size
53x53

行程(mm) Travel distance
50~500
50间隔
50mm Pitch

丝杆类型 Screw type
A:梯形 Trapezoid
B:滚珠 Ball bearings

丝杆导程 Lead Screw
5mm

减速比/功率 Reduction /ratio power

推杆设计 Push rod design
R:可旋转 Rotatable
无:不可旋转 Non rotatable

电机连接 Motor connection
E:直连 Direct connection
F:折返 Turn back
L:转角 Corner

电缸安装方式 Installation method of electric cylinder
H1:底部螺纹 Bottom thread
H2:底板 Base plate
H3:前法兰 Front flange
H4:尾部法兰 Tail flange
H5:尾部凸销 Tail protruding pin
H6:尾部销孔 Tail pin hole
H7:客户定制 Customer customization

负载连接方式 Load connection method
K1:外螺纹 External thread
K2:内螺纹 Internal thread
K3:杆端关节轴承 Rod end joint bearing
K4:杆端双叉销孔 Double fork pin hole at the rod end
K5:浮动接头 Floating connector
K6:用户定制 User customization

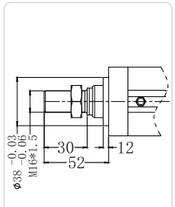
传感器 sensor
S3:3只标配常开 3 pcs standard N.O.
S2.1:2常闭1常开 2N.C.1N.O.
N3:3只NPN常开 3 pcs NPN N.O.
P3:3只PNP常开 3 pcs PNP N.O.
N2.1:NPN 2常闭1常开 NPN 2N.C.1N.O.
P2.1:PNP 2常闭1常开 PNP 2N.C.1N.O.

缸体内径 (mm) Inner diameter of cylinder body	∅40	
缸体外形 (mm) Cylinder body shape	53*53	
丝杆直径 (mm) Screw diameter	∅16	
伺服功率 Servo power	57(步进)	400
伺服转速(r/min) Servo speed	500	3000
导程(mm) Lead	5	10
减速比 Reduction ratio	1	1
最高速度(mm/s) Maximum speed	250	500
额定出力(Kg) Rated output	30	50
额定承载 Rated load capacity	100kg	
本体最大承载 Maximum load-bearing capacity of the body	200kg	
有效行程(mm) Effective travel distance	50-500	
重复定位精度(mm) Repetitive positioning accuracy	±0.02/±0.01(研磨丝杆)	
防护等级 Protection grade	Ip65	
有效行程 Effective stroke	50	100
重量kg Weight	1.977	2.115
	行程每增加50mm，重量增加0.138kg For every 50mm increase in travel, the weight increases by 0.138kg	

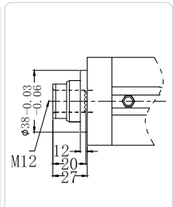
注:其他功率伺服电机匹配参数请与我们联系:400-9977-398
Note: For other matching parameters of power servo motors, please contact us at 400-9977-398

负载连接方式 Load connection method

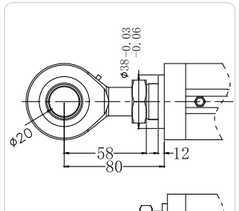
*注:其他连接方式需要定制时请与我司工程师联系
*Note: If other connection methods need to be customized, please contact our engineers



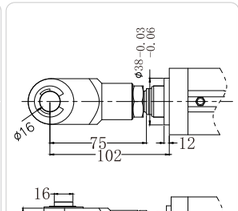
K1 外螺纹 External thread



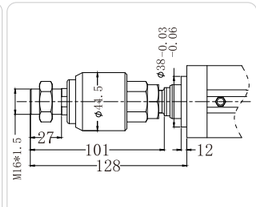
K2 内螺纹 Internal thread



K3 杆端关节轴承 Rod end joint bearing



K4 杆端双插销孔 Double pin holes at the rod end

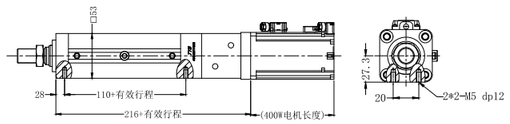


K5 浮动接头 Floating connector

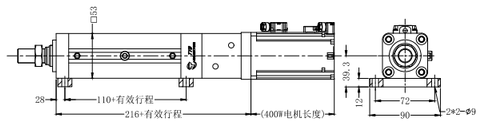
直连式 Direct connection type

2D CAD 3D CAD

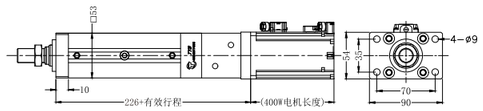
*注:匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



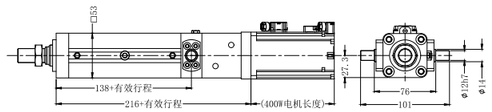
H1 底部螺纹孔 Bottom threaded hole



H2 底板 Base plate



H3 前法兰 Front flange

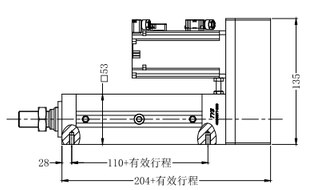


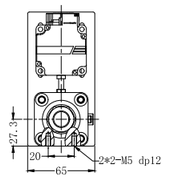
H5 尾部凸销 Tail protruding pin

折返式 Foldback

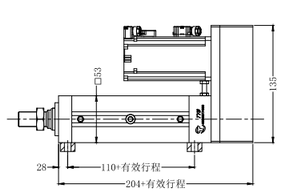
2D CAD 3D CAD

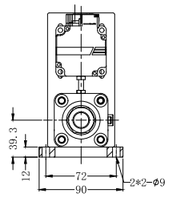
*注:匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



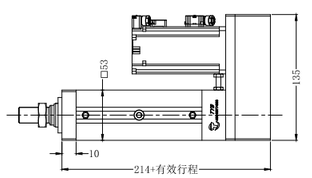


H1 底部螺纹孔 Bottom threaded hole

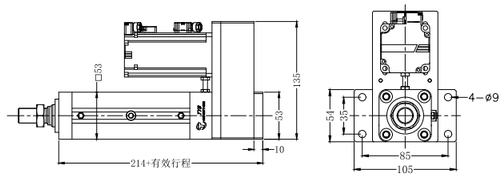




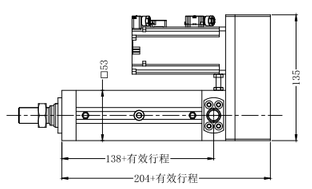
H2 底板 Base plate

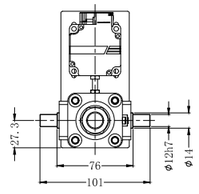


H3 前法兰 Front flange

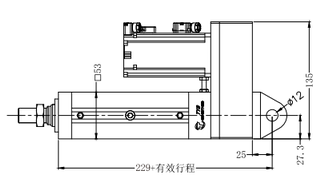


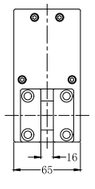
H4 尾部法兰 Tail flange





H5 尾部凸销 Tail protruding pin





H6 尾部销孔 Tail pin hole

注：折返式行程≤50mm时，电机长度可能会超过前法兰
Note: When the return stroke is ≤50mm, the motor length may exceed the front flange

TYSC 065 – L100 – B 5 R E – H1 K1 S3 □/□W

电动缸系列 Electric cylinder series

截面尺寸(mm) Section size
64x64

行程(mm) Travel distance
50~1000
50间隔
50mm Pitch

丝杆类型 Screw type
A:梯形 Trapezoid
B:滚珠 Ball bearings

丝杆导程 Lead Screw
5mm
10mm
16mm
20mm

减速比/功率 Reduction /ratio power

推杆设计 Push rod design
R:可旋转 Rotatable
无:不可旋转 Non rotatable

电机连接 Motor connection
E:直连 Direct connection
F:折返 Turn back
L:转角 Corner

电缸安装方式 Installation method of electric cylinder
H1:底部螺纹 Bottom thread
H2:底板 Base plate
H3:前法兰 Front flange
H4:尾部法兰 Tail flange
H5:尾部凸销 Tail protruding pin
H6:尾部销孔 Tail pin hole
H7:客户定制 Customer customization

负载连接方式 Load connection method
K1:外螺纹 External thread
K2:内螺纹 Internal thread
K3:杆端关节轴承 Rod end joint bearing
K4:杆端双叉销孔 Double fork pin hole at the rod end
K5:浮动接头 Floating connector
K6:用户定制 User customization

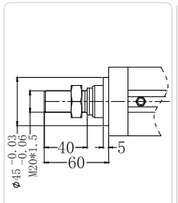
传感器 sensor
S3:3只标配常开 3 pcs standard N.O.
S2.1:2常闭1常开 2N.C.1N.O.
N3:3只NPN常开 3 pcs NPN N.O.
P3:3只PNP常开 3 pcs PNP N.O.
N2.1:NPN 2常闭1常开 NPN 2N.C.1N.O.
P2.1:PNP 2常闭1常开 PNP 2N.C.1N.O.

缸体内径 (mm) Inner diameter of cylinder body	∅50									
缸体外形 (mm) Cylinder body shape	64*64									
丝杆直径 (mm) Screw diameter	∅16									
伺服功率 Servo power	400W					750W				
伺服转速(r/min) Servo speed	3000					3000				
导程(mm) Lead	5		10		20	5	10		20	
减速比 Reduction ratio	1	3	1	5	1	10	1	1	3	1
最高速度(mm/s) Maximum speed	250	83	500	100	1000	100	250	500	166	1000
额定出力(Kg) Rated output	110	300	56	287	28	287	216	108	300	54
额定承载 Rated load capacity	300kg									
本体最大承载 Maximum load-bearing capacity of the body	400kg									
行程(mm) stroke	50-1000									
重复定位精度(mm) Repetitive positioning accuracy	±0.02/±0.01(研磨丝杆)									
防护等级 Protection grade	Ip65									
有效行程 Effective stroke	50	100	150	200	250	300	350	400	450	500
重量kg Weight	3.4	3.8	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1
	行程每增加50mm,重量增加0.4kg For every50mm increase in travel, the weight increases by 0.4kg									

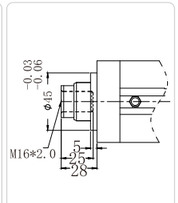
注:其他功率伺服电机匹配参数请与我们联系:400-9977-398
Note: For other matching parameters of power servo motors, please contact us at 400-9977-398

负载连接方式 Load connection method

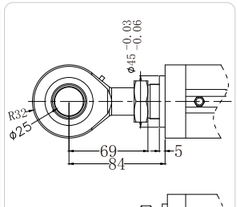
*注:其他连接方式需要定制时请与我司工程师联系
*Note: If other connection methods need to be customized, please contact our engineers



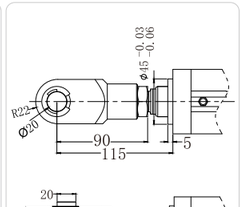
K1 外螺纹 External thread



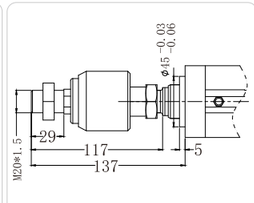
K2 内螺纹 Internal thread



K3 杆端关节轴承 Rod end joint bearing



K4 杆端双插销孔 Double pin holes at the rod end

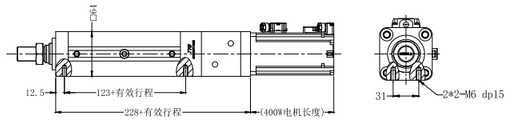


K5 浮动接头 Floating connector

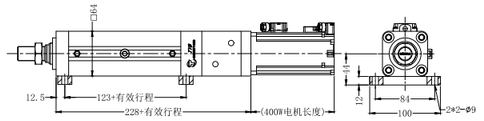
直连式 Direct connection type

2D CAD 3D CAD

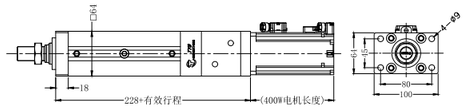
*注：匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



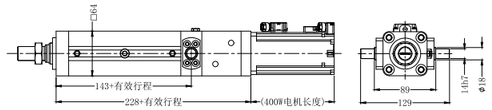
H1 底部螺纹孔 Bottom threaded hole



H2 底板 Base plate



H3 前法兰 Front flange

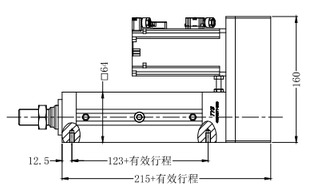


H5 尾部凸销 Tail protruding pin

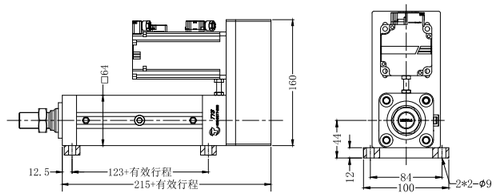
折返式 Foldback

2D CAD 3D CAD

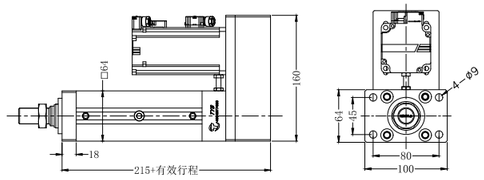
*注：匹配不同品牌电机减速机、不同功率时，电机长度可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



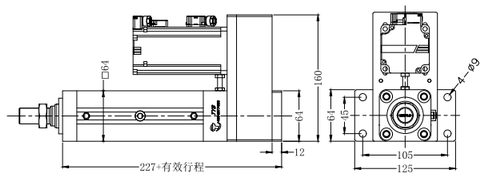
H1 底部螺纹孔 Bottom threaded hole



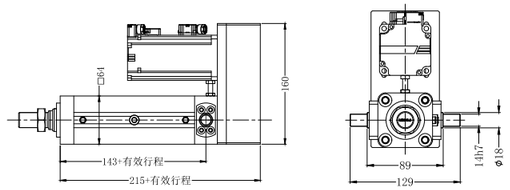
H2 底板 Base plate



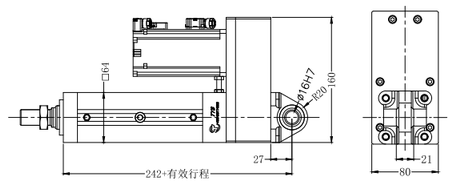
H3 前法兰 Front flange



H4 尾部法兰 Tail flange



H5 尾部凸销 Tail protruding pin



H6 尾部销孔 Tail pin hole

注：折返式行程≤50mm时，电机长度可能会超过前法兰
Note: When the return stroke is ≤50mm, the motor length may exceed the front flange

TYSC 075 – L100 – B 5 R E – H1 K1 S3 □/□W

电动缸系列 Electric cylinder series

截面尺寸(mm) Section size
75x75

行程(mm) Travel distance
50~1500
50间隔
50mm Pitch

丝杆类型 Screw type
A:梯形 Trapezoid
B:滚珠 Ball bearings

丝杆导程 Lead Screw
5mm
10mm
20mm

减速比/功率 Reduction /ratio power

推杆设计 Push rod design
R:可旋转 Rotatable
无:不可旋转 Non rotatable

电机连接 Motor connection
E:直连 Direct connection
F:折返 Turn back
L:转角 Corner

电缸安装方式 Installation method of electric cylinder
H1:底部螺纹 Bottom thread
H2:底板 Base plate
H3:前法兰 Front flange
H4:尾部法兰 Tail flange
H5:尾部凸销 Tail protruding pin
H6:尾部销孔 Tail pin hole
H7:客户定制 Customer customization

负载连接方式 Load connection method
K1:外螺纹 External thread
K2:内螺纹 Internal thread
K3:杆端关节轴承 Rod end joint bearing
K4:杆端双叉销孔 Double fork pin hole at the rod end
K5:浮动接头 Floating connector
K6:用户定制 User customization

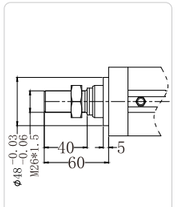
传感器 sensor
S3:3只标配常开 3 pcs standard N.O.
S2.1:2常闭1常开 2N.C.1N.O.
N3:3只NPN常开 3 pcs NPN N.O.
P3:3只PNP常开 3 pcs PNP N.O.
N2.1:NPN 2常闭1常开 NPN 2N.C.1N.O.
P2.1:PNP 2常闭1常开 PNP 2N.C.1N.O.

缸体内径 (mm) Inner diameter of cylinder body	∅63						
缸体外形 (mm) Cylinder body shape	75*75						
丝杆直径 (mm) Screw diameter	∅20						
伺服功率 Servo power	750W				1KW		
伺服转速(r/min) Servo speed	3000				3000		
导程(mm) Lead	10		20		10	20	
减速比 Reduction ratio	1	5	1	10	1	1	7
最高速度(mm/s) Maximum speed	500	100	1000	100	500	1000	142
额定出力(Kg) Rated output	108	500	53	500	143	71	500
额定承载 Rated load capacity	500kg						
本体最大承载 Maximum load-bearing capacity of the body	700kg						
行程(mm) stroke	50-1500						
重复定位精度(mm) Repetitive positioning accuracy	±0.02/±0.01(研磨丝杆)						
防护等级 Protection grade	Ip65						
有效行程 Effective stroke	50	100	150	200	250	300	350	400	450
重量kg Weight	4.8	5.4	6	6.6	7.2	7.8	8.4	9	9.6
	行程每增加50mm,重量增加0.6kg For every50mm increase in travel, the weight increases by 0.6kg								

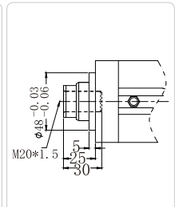
注:其他功率伺服电机匹配参数请与我们联系:400-9977-398
Note: For other matching parameters of power servo motors, please contact us at 400-9977-398

负载连接方式 Load connection method

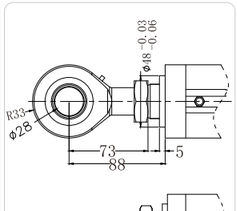
*注:其他连接方式需要定制时请与我司工程师联系
*Note: If other connection methods need to be customized, please contact our engineers



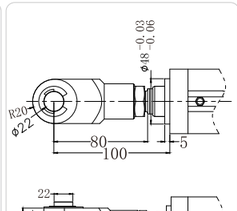
K1 外螺纹 External thread



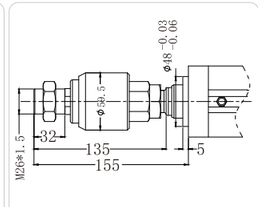
K2 内螺纹 Internal thread



K3 杆端关节轴承 Rod end joint bearing



K4 杆端双插销孔 Double pin holes at the rod end

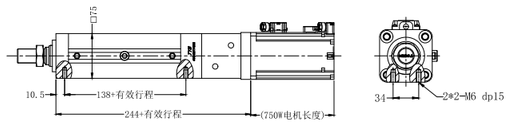


K5 浮动接头 Floating connector

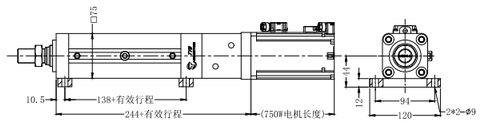
直连式 Direct connection type

2D CAD 3D CAD

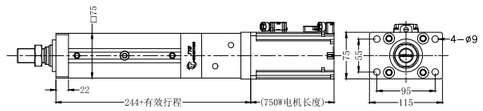
*注：匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



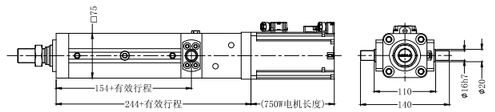
H1 底部螺纹孔 Bottom threaded hole



H2 底板 Base plate



H3 前法兰 Front flange

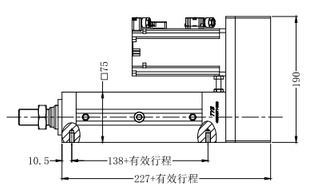


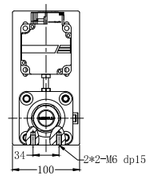
H5 尾部凸销 Tail protruding pin

折返式 Foldback

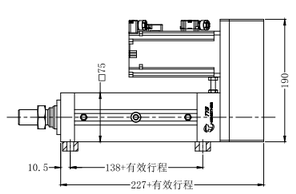
2D CAD 3D CAD

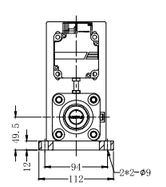
*注：匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



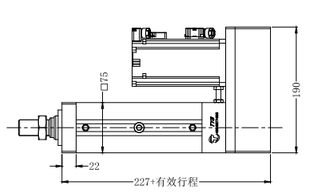


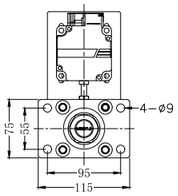
H1 底部螺纹孔 Bottom threaded hole



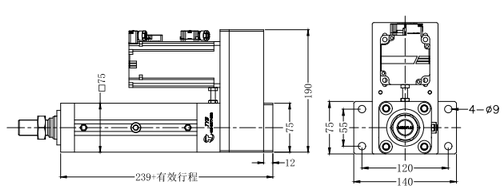


H2 底板 Base plate

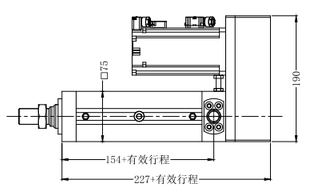


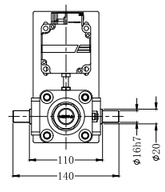


H3 前法兰 Front flange

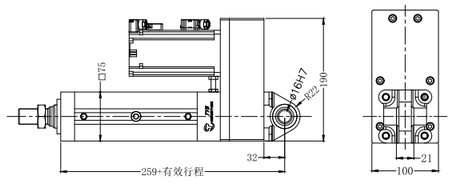


H4 尾部法兰 Tail flange





H5 尾部凸销 Tail protruding pin



H6 尾部销孔 Tail pin hole

注：折返式行程≤100mm时，电机长度可能会超过前法兰
Note: When the return stroke is ≤100mm, the motor length may exceed the front flange

TYSC 095 – L100 – B 5 R E – H1 K1 S3 □/□W

电动缸系列
Electric cylinder series

截面尺寸(mm)
Section size
95x95

行程(mm)
Travel distance
50~1500
50间隔
50mm Pitch

丝杆类型
Screw type
A:梯形
Trapezoid
B:滚珠
Ball bearings

丝杆导程
Lead Screw
5mm
10mm
25mm

减速比/功率
Reduction /ratio power

推杆设计
Push rod design
R:可旋转
Rotatable
无:不可旋转
Non rotatable

电机连接
Motor connection
E:直连
Direct connection
F:折返
Turn back
L:转角
Corner

电缸安装方式
Installation method of electric cylinder
H1:底部螺纹
Bottom thread
H2:底板
Base plate
H3:前法兰
Front flange
H4:尾部法兰
Tail flange
H5:尾部凸销
Tail protruding pin
H6:尾部销孔
Tail pin hole
H7:客户定制
Customer customization

负载连接方式
Load connection method
K1:外螺纹
External thread
K2:内螺纹
Internal thread
K3:杆端关节轴承
Rod end joint bearing
K4:杆端双叉销孔
Double fork pin hole at the rod end
K5:浮动接头
Floating connector
K6:用户定制
User customization

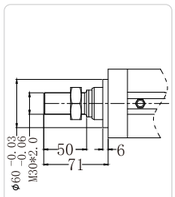
传感器
sensor
S3:3只标配常开
3 pcs standard N.O.
S2.1:2常闭1常开
2N.C.1N.O.
N3:3只NPN常开
3 pcs NPN N.O.
P3:3只PNP常开
3 pcs PNP N.O.
N2.1:NPN 2常闭1常开
NPN 2N.C.1N.O.
P2.1:PNP 2常闭1常开
PNP 2N.C.1N.O.

缸体内径(mm) Inner diameter of cylinder body	∅80							
缸体外形(mm) Cylinder body shape	93*93							
丝杆直径(mm) Screw diameter	∅25							
伺服功率 Servo power	1KW				1.5KW			
伺服转速(r/min) Servo speed	3000				3000			
导程(mm) Lead	10		25		10		25	
减速比 Reduction ratio	1	10	1	25	1	7	1	20
最高速度(mm/s) Maximum speed	500	50	1250	50	500	71	1250	62
额定出力(Kg) Rated output	143	1437	56	1438	215	1509	86	1725
额定承载 Rated load capacity	1.5T							
本体最大承载 Maximum load-bearing capacity of the body	2T							
行程(mm) stroke	50-1500							
重复定位精度(mm) Repetitive positioning accuracy	±0.02/±0.01(研磨丝杆)							
防护等级 Protection grade	Ip65							
有效行程 Effective stroke	50	100	150	200	250	300	350	400
重量kg Weight	9	10	11	12	13	14	15	16
	行程每增加50mm,重量增加1kg For every50mm increase in travel, the weight increases by 1kg							

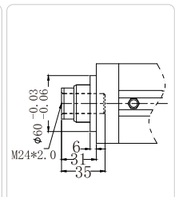
注:其他功率伺服电机匹配参数请与我们联系:400-9977-398
Note: For other matching parameters of power servo motors, please contact us at 400-9977-398

负载连接方式 Load connection method

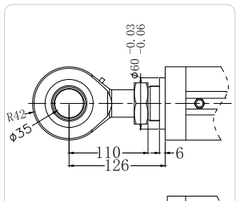
*注:其他连接方式需要定制时请与我司工程师联系
*Note: If other connection methods need to be customized, please contact our engineers



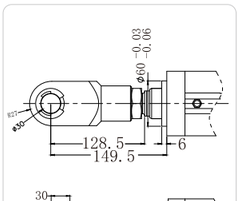
K1 外螺纹 External thread



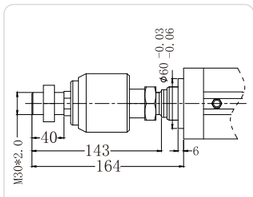
K2 内螺纹 Internal thread



K3 杆端关节轴承 Rod end joint bearing



K4 杆端双插销孔 Double pin holes at the rod end

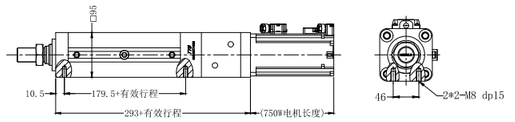


K5 浮动接头 Floating connector

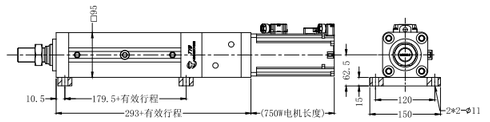
直连式 Direct connection type

2D CAD 3D CAD

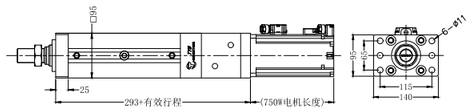
*注：匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



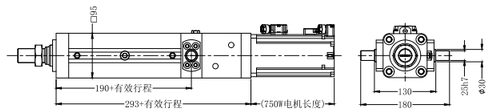
H1 底部螺纹孔 Bottom threaded hole



H2 底板 Base plate



H3 前法兰 Front flange

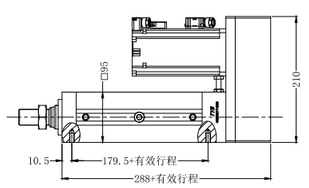


H5 尾部凸销 Tail protruding pin

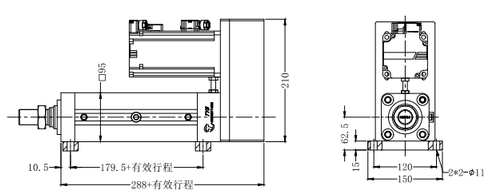
折返式 Foldback

2D CAD 3D CAD

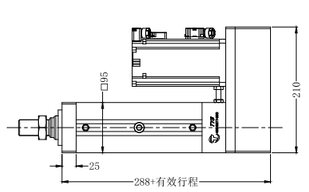
*注：匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



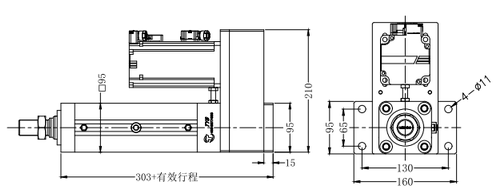
H1 底部螺纹孔 Bottom threaded hole



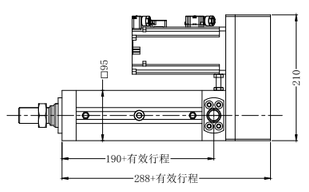
H2 底板 Base plate



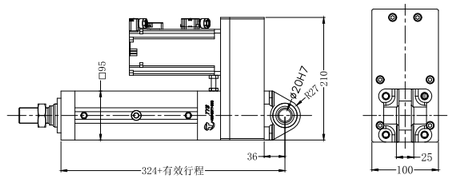
H3 前法兰 Front flange



H4 尾部法兰 Tail flange



H5 尾部凸销 Tail protruding pin



H6 尾部销孔 Tail pin hole

注：折返式行程≤50mm时，电机长度可能会超过前法兰
Note: When the return stroke is ≤50mm, the motor length may exceed the front flange

TYSC 110 – L100 – B 5 R E – H1 K1 S3 □/□W

电动缸系列 Electric cylinder series

截面尺寸(mm) Section size
110x110

行程(mm) Travel distance
50~2000
50间隔
50mm Pitch

丝杆类型 Screw type
A:梯形 Trapezoid
B:滚珠 Ball bearings

丝杆导程 Lead Screw
5mm
10mm
20mm
32mm

减速比/功率 Reduction /ratio power

推杆设计 Push rod design
R:可旋转 Rotatable
无:不可旋转 Non rotatable

电机连接 Motor connection
E:直连 Direct connection
F:折返 Turn back
L:转角 Corner

电缸安装方式 Installation method of electric cylinder
H1:底部螺纹 Bottom thread
H2:底板 Base plate
H3:前法兰 Front flange
H4:尾部法兰 Tail flange
H5:尾部凸销 Tail protruding pin
H6:尾部销孔 Tail pin hole
H7:客户定制 Customer customization

负载连接方式 Load connection method
K1:外螺纹 External thread
K2:内螺纹 Internal thread
K3:杆端关节轴承 Rod end joint bearing
K4:杆端双叉销孔 Double fork pin hole at the rod end
K5:浮动接头 Floating connector
K6:用户定制 User customization

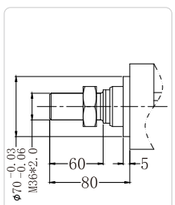
传感器 sensor
S3:3只标配常开 3 pcs standard N.O.
S2.1:2常闭1常开 2N.C.1N.O.
N3:3只NPN常开 3 pcs NPN N.O.
P3:3只PNP常开 3 pcs PNP N.O.
N2.1:NPN 2常闭1常开 NPN 2N.C.1N.O.
P2.1:PNP 2常闭1常开 PNP 2N.C.1N.O.

缸体内径(mm) Inner diameter of cylinder body	∅100						
缸体外形(mm) Cylinder body shape	111*111						
丝杆直径(mm) Screw diameter	∅32						
伺服功率 Servo power	1.5KW				3KW		
伺服转速(r/min) Servo speed	3000				1500		
导程(mm) Lead	10		20		10	20	
减速比 Reduction ratio	1	15	1	35	1	1	7
最高速度(mm/s) Maximum speed	500	33	1000	23	250	500	71
额定出力(Kg) Rated output	215	3250	107	3000	860	430	3000
额定承载 Rated load capacity	3T						
本体最大承载 Maximum load-bearing capacity of the body	4T						
行程(mm) stroke	50-2000						
重复定位精度(mm) Repetitive positioning accuracy	±0.02/±0.01(研磨丝杆)						
防护等级 Protection grade	Ip65						
有效行程 Effective stroke	50	100	150	200	250	300	350	400	450	500
重量kg Weight	12.3	13.7	15.1	16.5	17.9	19.3	20.7	22.1	23.5	24.9
	行程每增加50mm,重量增加1.4kg For every50mm increase in travel, the weight increases by 1.4kg									

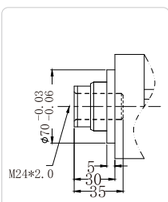
注:其他功率伺服电机匹配参数请与我们联系:400-9977-398
Note: For other matching parameters of power servo motors, please contact us at 400-9977-398

负载连接方式 Load connection method

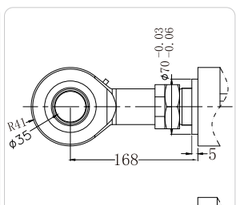
*注:其他连接方式需要定制时请与我司工程师联系
*Note: If other connection methods need to be customized, please contact our engineers



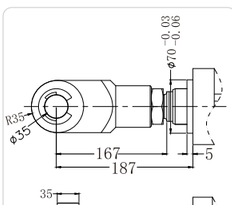
K1 外螺纹 External thread



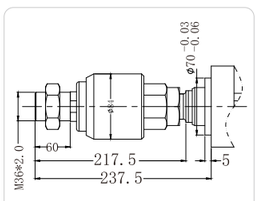
K2 内螺纹 Internal thread



K3 杆端关节轴承 Rod end joint bearing



K4 杆端双插销孔 Double pin holes at the rod end

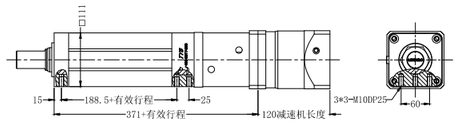


K5 浮动接头 Floating connector

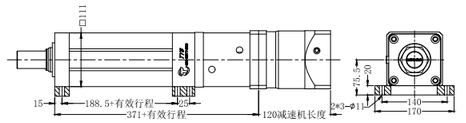
直连式 Direct connection type

2D CAD 3D CAD

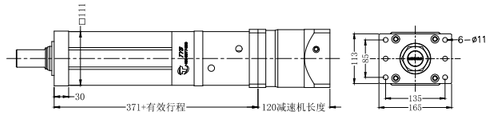
*注:匹配不同品牌电机减速机、不同功率时,电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



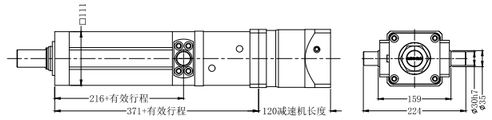
H1 底部螺纹孔 Bottom threaded hole



H2 底板 Base plate



H3 前法兰 Front flange

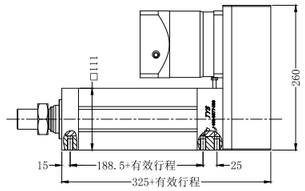


H5 尾部凸销 Tail protruding pin

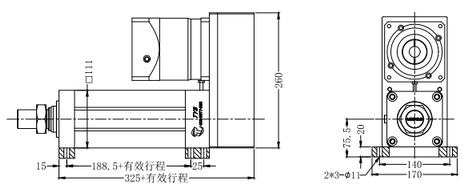
折返式 Foldback

2D CAD 3D CAD

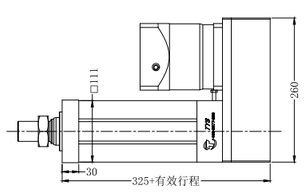
*注:匹配不同品牌电机减速机、不同功率时,电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



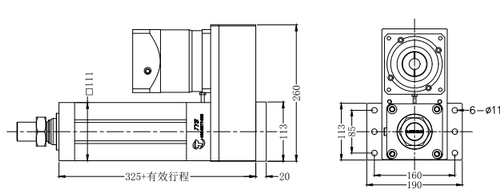
H1 底部螺纹孔 Bottom threaded hole



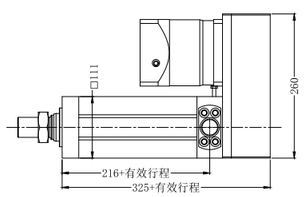
H2 底板 Base plate



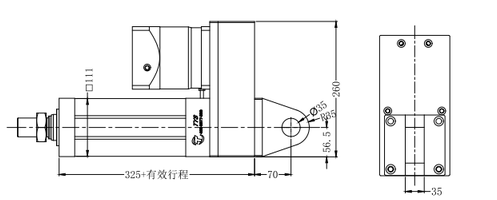
H3 前法兰 Front flange



H4 尾部法兰 Tail flange



H5 尾部凸销 Tail protruding pin



H6 尾部销孔 Tail pin hole

注:折返式行程≤150mm时,电机长度可能会超过前法兰
Note: When the return stroke is ≤150mm, the motor length may exceed the front flange

TYSC 135 – L100 – B 5 R E – H1 K1 S3 □/□W

电动缸系列 Electric cylinder series

截面尺寸(mm) Section size
134x134

行程(mm) Travel distance
50~2000
50间隔
50mm Pitch

丝杆类型 Screw type
A:梯形 Trapezoid
B:滚珠 Ball bearings

丝杆导程 Lead Screw
5mm
10mm
20mm
50mm

减速比/功率 Reduction /ratio power

推杆设计 Push rod design
R:可旋转 Rotatable
无:不可旋转 Non rotatable

电机连接 Motor connection
E:直连 Direct connection
F:折返 Turn back
L:转角 Corner

电缸安装方式 Installation method of electric cylinder
H1:底部螺纹 Bottom thread
H2:底板 Base plate
H3:前法兰 Front flange
H4:尾部法兰 Tail flange
H5:尾部凸销 Tail protruding pin
H6:尾部销孔 Tail pin hole
H7:客户定制 Customer customization

负载连接方式 Load connection method
K1:外螺纹 External thread
K2:内螺纹 Internal thread
K3:杆端关节轴承 Rod end joint bearing
K4:杆端双叉销孔 Double fork pin hole at the rod end
K5:浮动接头 Floating connector
K6:用户定制 User customization

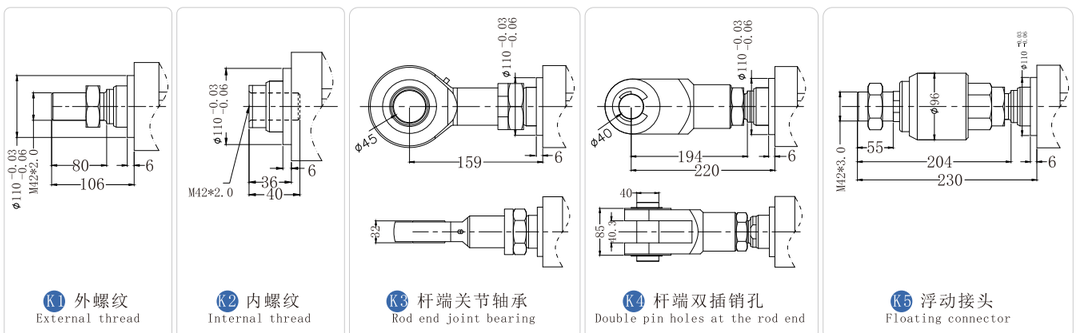
传感器 sensor
S3:3只标配常开 3 pcs standard N.O.
S2.1:2常闭1常开 2N.C.1N.O.
N3:3只NPN常开 3 pcs NPN N.O.
P3:3只PNP常开 3 pcs PNP N.O.
N2.1:NPN 2常闭1常开 NPN 2N.C.1N.O.
P2.1:PNP 2常闭1常开 PNP 2N.C.1N.O.

缸体内径 (mm) Inner diameter of cylinder body	∅125		
缸体外形 (mm) Cylinder body shape	134*134		
丝杆直径 (mm) Screw diameter	∅50		
伺服功率 Servo power	5KW		
伺服转速(r/min) Servo speed	1500		
导程(mm) Lead	10		
减速比 Reduction ratio	1	3	5
最高速度(mm/s) Maximum speed	250	83	50
额定出力(Kg) Rated output	1580	4747	7912
额定承载 Rated load capacity	5T		
本体最大承载 Maximum load-bearing capacity of the body	6T		
行程(mm) stroke	50-2000		
重复定位精度(mm) Repetitive positioning accuracy	±0.02/±0.01(研磨丝杆)		
防护等级 Protection grade	Ip65		
有效行程 Effective stroke	50	100	150
重量kg Weight	20.9	23	25.1
	行程每增加50mm,重量增加2.1kg For every50mm increase in travel, the weight increases by 2.1kg		

注:其他功率伺服电机匹配参数请与我们联系:400-9977-398
Note: For other matching parameters of power servo motors, please contact us at 400-9977-398

负载连接方式 Load connection method

*注:其他连接方式需要定制时请与我司工程师联系
*Note: If other connection methods need to be customized, please contact our engineers

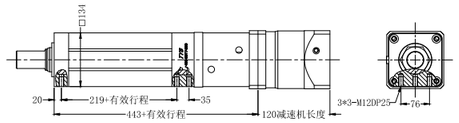


K1 外螺纹 External thread
K2 内螺纹 Internal thread
K3 杆端关节轴承 Rod end joint bearing
K4 杆端双插销孔 Double pin holes at the rod end
K5 浮动接头 Floating connector

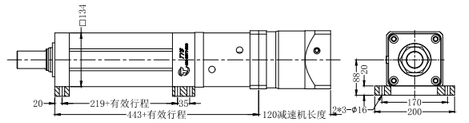
直连式 Direct connection type

2D CAD 3D CAD

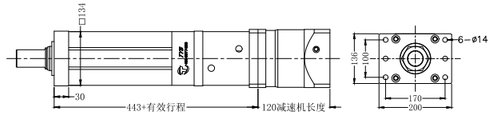
*注:匹配不同品牌电机减速机、不同功率时,电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



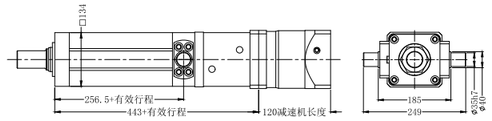
H1 底部螺纹孔 Bottom threaded hole



H2 底板 Base plate



H3 前法兰 Front flange

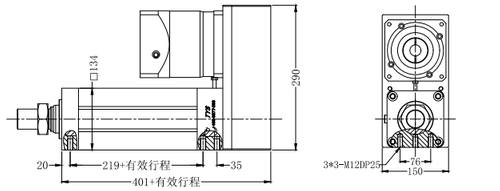


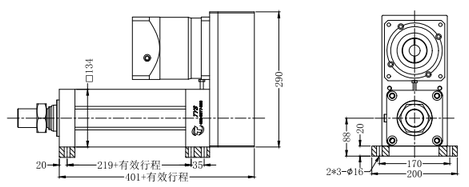
H5 尾部凸销 Tail protruding pin

折返式 Foldback

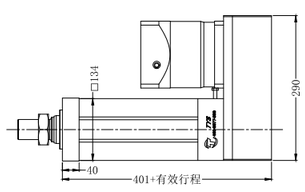
2D CAD 3D CAD

*注:匹配不同品牌电机减速机、不同功率时,电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary

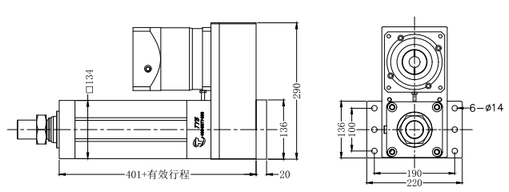




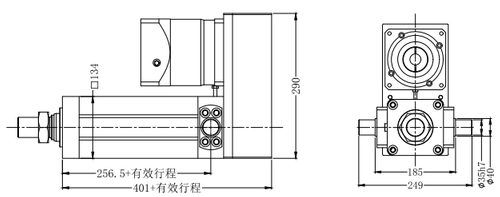
H1 底部螺纹孔 Bottom threaded hole



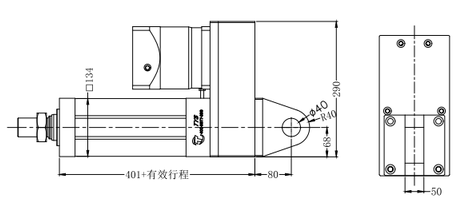
H2 底板 Base plate



H3 前法兰 Front flange



H4 尾部法兰 Tail flange



H5 尾部凸销 Tail protruding pin
H6 尾部销孔 Tail pin hole

注:折返式行程≤100mm时,电机长度可能会超过前法兰
Note: When the return stroke is ≤100mm, the motor length may exceed the front flange

TYSC 140 – L100 – B 10 R E – H1 K1 S3 □/□W

电动缸系列 Electric cylinder series

截面尺寸(mm) Section size
134x134

行程(mm) Travel distance
50~2000
50间隔
50mm Pitch

丝杆类型 Screw type
A:梯形 Trapezoid
B:滚珠 Ball bearings

丝杆导程 Lead Screw
10mm

减速比/功率 Reduction /ratio power

推杆设计 Push rod design
R:可旋转 Rotatable
无:不可旋转 Non rotatable

电机连接 Motor connection
E:直连 Direct connection
F:折返 Turn back
L:转角 Corner

电缸安装方式 Installation method of electric cylinder
H1:底部螺纹 Bottom thread
H2:底板 Base plate
H3:前法兰 Front flange
H4:尾部法兰 Tail flange
H5:尾部凸销 Tail protruding pin
H6:尾部销孔 Tail pin hole
H7:客户定制 Customer customization

负载连接方式 Load connection method
K1:外螺纹 External thread
K2:内螺纹 Internal thread
K3:杆端关节轴承 Rod end joint bearing
K4:杆端双叉销孔 Double fork pin hole at the rod end
K5:浮动接头 Floating connector
K6:用户定制 User customization

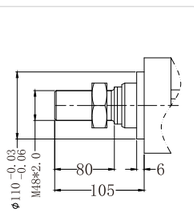
传感器 sensor
S3:3只标配常开 3 pcs standard N.O.
S2.1:2常闭1常开 2N.C.1N.O.
N3:3只NPN常开 3 pcs NPN N.O.
P3:3只PNP常开 3 pcs PNP N.O.
N2.1:NPN 2常闭1常开 NPN 2N.C.1N.O.
P2.1:PNP 2常闭1常开 PNP 2N.C.1N.O.

缸体内径 (mm) Inner diameter of cylinder body	∅125	
缸体外形 (mm) Cylinder body shape	140*140	
丝杆直径 (mm) Screw diameter	∅50	
伺服功率 Servo power	5KW	
伺服转速(r/min) Servo speed	1500	
导程(mm) Lead	10	
减速比 Reduction ratio	1	7
最高速度(mm/s) Maximum speed	250	35
额定出力(Kg) Rated output	1580	10000
额定承载 Rated load capacity	10T	
本体最大承载 Maximum load-bearing capacity of the body	11T	
行程(mm) Stroke	50-2000	
重复定位精度(mm) Repetitive positioning accuracy	±0.02/±0.01(研磨丝杆)	
防护等级 Protection grade	Ip65	
有效行程 Effective stroke	50	100
重量kg Weight	34.88	37.58
	行程每增加50mm,重量增加2.7kg For every50mm increase in travel, the weight increases by 2.7kg	

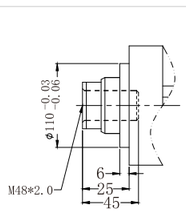
注:其他功率伺服电机匹配参数请与我们联系:400-9977-398
Note: For other matching parameters of power servo motors, please contact us at 400-9977-398

负载连接方式 Load connection method

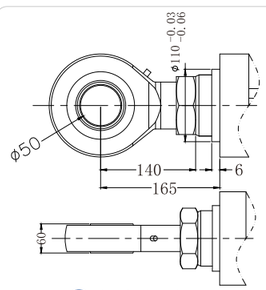
*注:其他连接方式需要定制时请与我司工程师联系
*Note: If other connection methods need to be customized, please contact our engineers



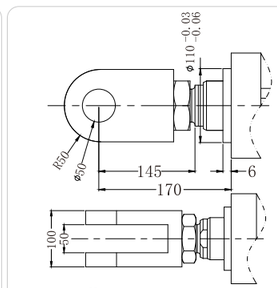
K1 外螺纹 External thread



K2 内螺纹 Internal thread



K3 杆端关节轴承 Rod end joint bearing

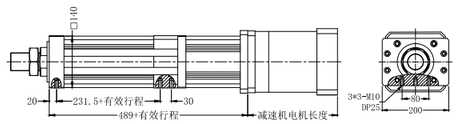


K4 杆端双插销孔 Double pin holes at the rod end

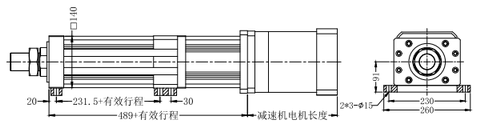
直连式 Direct connection type

2D CAD 3D CAD

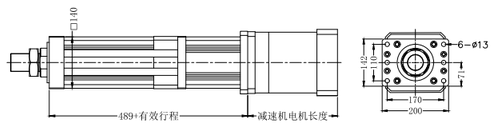
*注:匹配不同品牌电机减速机、不同功率时,电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



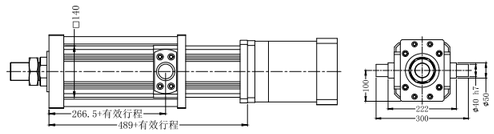
H1 底部螺纹孔 Bottom threaded hole



H2 底板 Base plate



H3 前法兰 Front flange

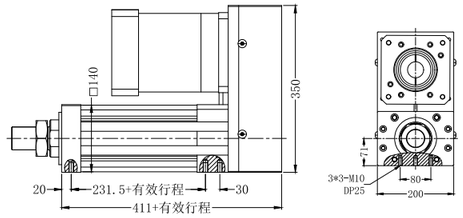


H5 尾部凸销 Tail protruding pin

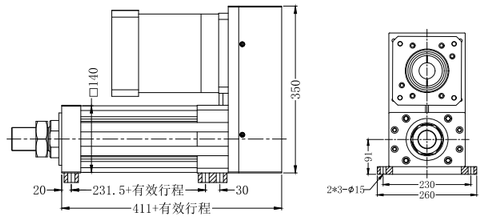
折返式 Foldback

2D CAD 3D CAD

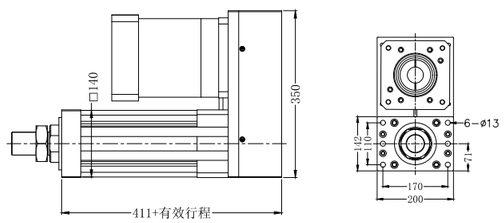
*注:匹配不同品牌电机减速机、不同功率时,电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



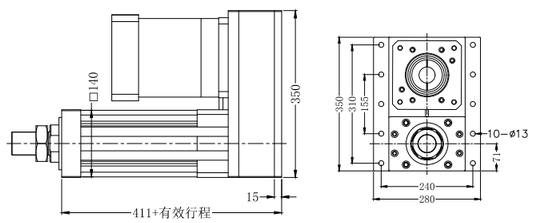
H1 底部螺纹孔 Bottom threaded hole



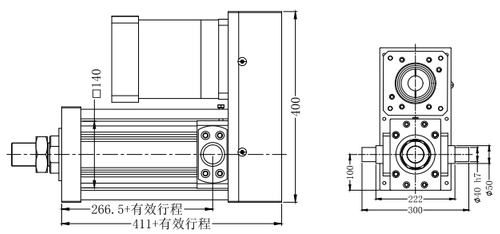
H2 底板 Base plate



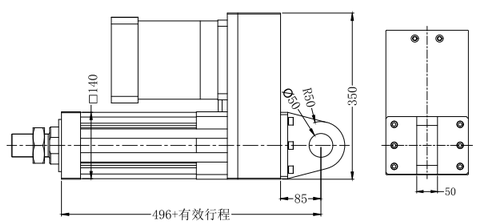
H3 前法兰 Front flange



H4 尾部法兰 Tail flange



H5 尾部凸销 Tail protruding pin



H6 尾部销孔 Tail pin hole

注：折返式行程≤250mm时,电机长度可能会超过前法兰
Note: When the return stroke is ≤250mm, the motor length may exceed the front flange

TYSC 180 – L100 – B 20 R E – H1 K1 S3 □/□W

电动缸系列 Electric cylinder series

截面尺寸(mm) Section size
190x190

行程(mm) Travel distance
50~3700
50间隔
50mm Pitch

丝杆类型 Screw type
A:梯形 Trapezoid
B:滚珠 Ball bearings

丝杆导程 Lead Screw
20mm

减速比/功率 Reduction /ratio power

推杆设计 Push rod design
R:可旋转 Rotatable
无:不可旋转 Non rotatable

电机连接 Motor connection
E:直连 Direct connection
F:折返 Turn back
L:转角 Corner

电缸安装方式 Installation method of electric cylinder
H1:底部螺纹 Bottom thread
H2:底板 Base plate
H3:前法兰 Front flange
H4:尾部法兰 Tail flange
H5:尾部凸销 Tail protruding pin
H6:尾部销孔 Tail pin hole
H7:客户定制 Customer customization

负载连接方式 Load connection method
K1:外螺纹 External thread
K2:内螺纹 Internal thread
K3:杆端关节轴承 Rod end joint bearing
K4:杆端双叉销孔 Double fork pin hole at the rod end
K5:浮动接头 Floating connector
K6:用户定制 User customization

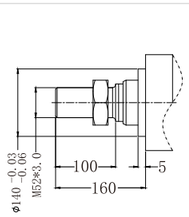
传感器 sensor
S3:3只标配常开 3 pcs standard N.O.
S2.1:2常闭1常开 2N.C.1N.O.
N3:3只NPN常开 3 pcs NPN N.O.
P3:3只PNP常开 3 pcs PNP N.O.
N2.1:NPN 2常闭1常开 NPN 2N.C.1N.O.
P2.1:PNP 2常闭1常开 PNP 2N.C.1N.O.

缸体内径 (mm) Inner diameter of cylinder body	∅140					
缸体外形 (mm) Cylinder body shape	∅178					
丝杆直径 (mm) Screw diameter	∅63					
伺服功率 Servo power	7.5KW					
伺服转速(r/min) Servo speed	1500					
导程(mm) Lead	20					
减速比 Reduction ratio	1	10	20			
最高速度(mm/s) Maximum speed	500	50	25			
额定出力(Kg) Rated output	1085	10851	21700			
额定承载 Rated load capacity	20T					
本体最大承载 Maximum load-bearing capacity of the body	25T					
行程(mm) stroke	50-3700					
重复定位精度(mm) Repetitive positioning accuracy	±0.02					
防护等级 Protection grade	Ip65					
有效行程 Effective stroke	50	100	150	200	250	300
重量kg Weight	125.5	131.6	137.7	143.8	149.9	156
	行程每增加50mm,重量增加6.1kg For every50mm increase in travel, the weight increases by6.1kg					

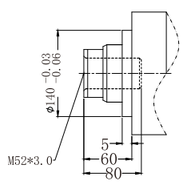
注:其他功率伺服电机匹配参数请与我们联系:400-9977-398
Note: For other matching parameters of power servo motors, please contact us at 400-9977-398

负载连接方式 Load connection method

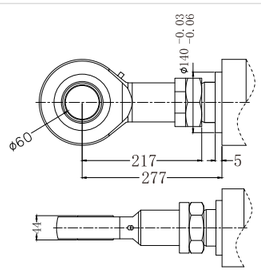
*注:其他连接方式需要定制时请与我司工程师联系
*Note: If other connection methods need to be customized, please contact our engineers



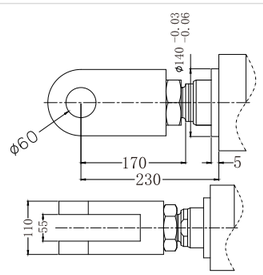
K1 外螺纹 External thread



K2 内螺纹 Internal thread



K3 杆端关节轴承 Rod end joint bearing

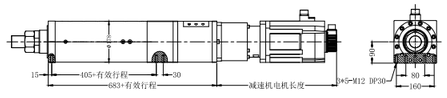


K4 杆端双插销孔 Double pin holes at the rod end

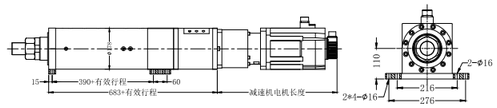
直连式 Direct connection type

2D CAD 3D CAD

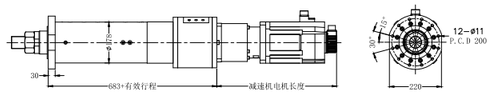
*注：匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



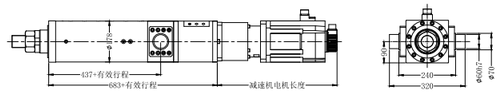
H1 底部螺纹孔 Bottom threaded hole



H2 底板 Base plate



H3 前法兰 Front flange

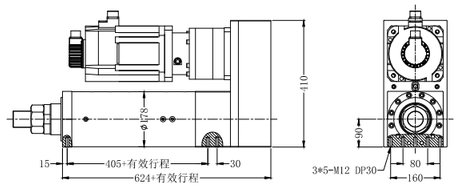


H5 尾部凸销 Tail protruding pin

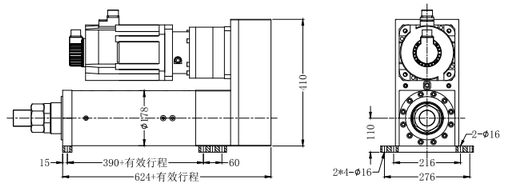
折返式 Foldback

2D CAD 3D CAD

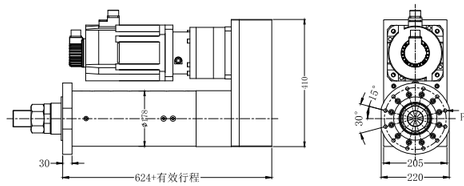
*注：匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



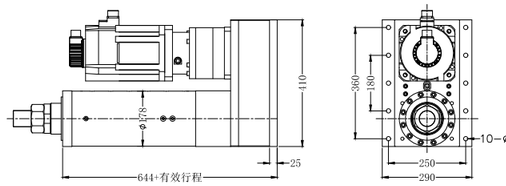
H1 底部螺纹孔 Bottom threaded hole



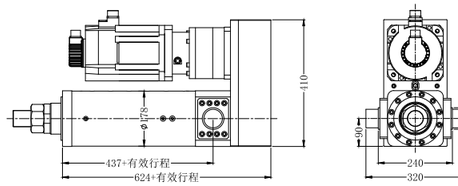
H2 底板 Base plate



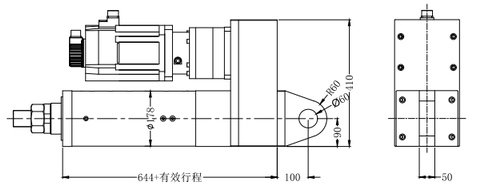
H3 前法兰 Front flange



H4 尾部法兰 Tail flange



H5 尾部凸销 Tail protruding pin



H6 尾部销孔 Tail pin hole

注：折返式行程≤50mm时，电机长度可能会超过前法兰
Note: When the return stroke is ≤50mm, the motor length may exceed the front flange

TYSC 220 – L100 – B 20 R E – H1 K1 S3 □/□W

电动缸系列 Electric cylinder series

截面尺寸(mm) Section size
220x220

行程(mm) Travel distance
50~4500
50间隔
50mm Pitch

丝杆类型 Screw type
A:梯形 Trapezoid
B:滚珠 Ball bearings

丝杆导程 Lead Screw
20mm

减速比/功率 Reduction /ratio power

推杆设计 Push rod design
R:可旋转 Rotatable
无:不可旋转 Non rotatable

电机连接 Motor connection
E:直连 Direct connection
F:折返 Turn back
L:转角 Corner

电缸安装方式 Installation method of electric cylinder
H1:底部螺纹 Bottom thread
H2:底板 Base plate
H3:前法兰 Front flange
H4:尾部法兰 Tail flange
H5:尾部凸销 Tail protruding pin
H6:尾部销孔 Tail pin hole
H7:客户定制 Customer customization

负载连接方式 Load connection method
K1:外螺纹 External thread
K2:内螺纹 Internal thread
K3:杆端关节轴承 Rod end joint bearing
K4:杆端双叉销孔 Double fork pin hole at the rod end
K5:浮动接头 Floating connector
K6:用户定制 User customization

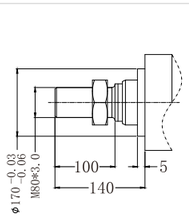
传感器 sensor
S3:3只标配常开 3 pcs standard N.O.
S2.1:2常闭1常开 2N.C.1N.O.
N3:3只NPN常开 3 pcs NPN N.O.
P3:3只PNP常开 3 pcs PNP N.O.
N2.1:NPN 2常闭1常开 NPN 2N.C.1N.O.
P2.1:PNP 2常闭1常开 PNP 2N.C.1N.O.

缸体内径 (mm) Inner diameter of cylinder body	∅180	
缸体外形 (mm) Cylinder body shape	∅219	
丝杆直径 (mm) Screw diameter	∅80	
伺服功率 Servo power	7.5KW	
伺服转速(r/min) Servo speed	1500	
导程(mm) Lead	20	
减速比 Reduction ratio	1	25
最高速度(mm/s) Maximum speed	500	20
额定出力(Kg) Rated output	1085	27129
额定承载 Rated load capacity	30T	
本体最大承载 Maximum load-bearing capacity of the body	35T	
行程(mm) stroke	50-4500	
重复定位精度(mm) Repetitive positioning accuracy	±0.02/±0.01	
防护等级 Protection grade	Ip65	
有效行程 Effective stroke	50 100 150 200 250 300 350 400 450 500 550 600	
重量kg Weight	204.1 211.1 218.1 225.1 232.1 239.1 246.1 253.1 260.1 267.1 274.1 281.1	
	行程每增加50mm,重量增加7kg For every50mm increase in travel, the weight increases by7kg	

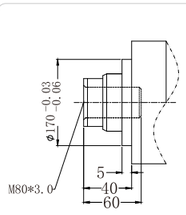
注:其他功率伺服电机匹配参数请与我们联系:400-9977-398
Note: For other matching parameters of power servo motors, please contact us at 400-9977-398

负载连接方式 Load connection method

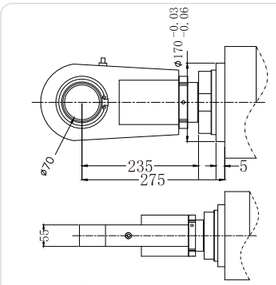
*注:其他连接方式需要定制时请与我司工程师联系
*Note: If other connection methods need to be customized, please contact our engineers



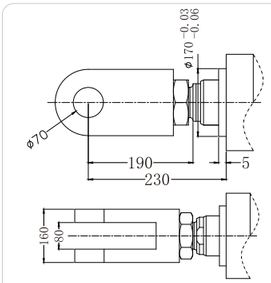
K1 外螺纹 External thread



K2 内螺纹 Internal thread



K3 杆端关节轴承 Rod end joint bearing

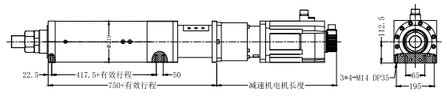


K4 杆端双插销孔 Double pin holes at the rod end

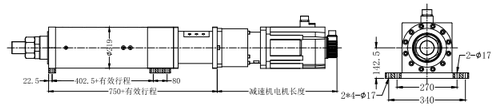
直连式 Direct connection type

2D CAD 3D CAD

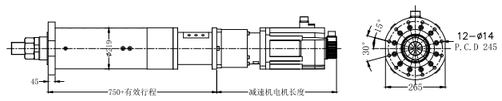
*注：匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



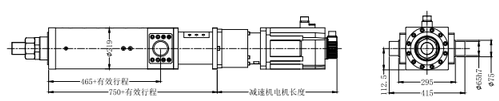
H1 底部螺纹孔 Bottom threaded hole



H2 底板 Base plate



H3 前法兰 Front flange

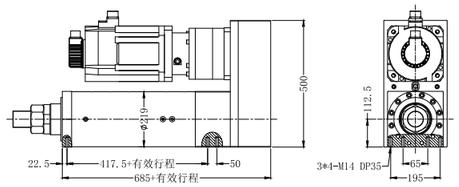


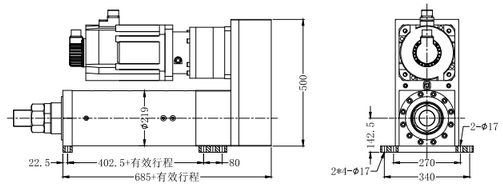
H5 尾部凸销 Tail protruding pin

折返式 Foldback

2D CAD 3D CAD

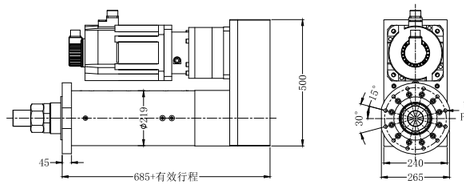
*注：匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



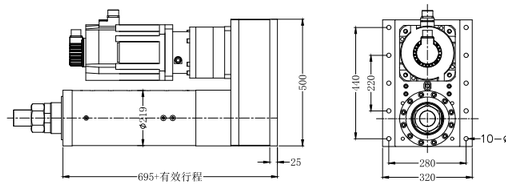


H1 底部螺纹孔 Bottom threaded hole

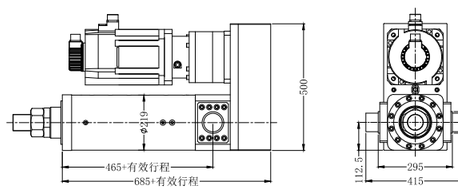
H2 底板 Base plate



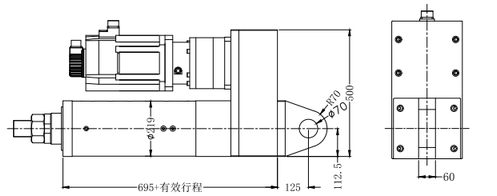
H3 前法兰 Front flange



H4 尾部法兰 Tail flange



H5 尾部凸销 Tail protruding pin



H6 尾部销孔 Tail pin hole

注：折返式行程≤100mm时，电机长度可能会超过前法兰
Note: When the return stroke is ≤100mm, the motor length may exceed the front flange

TYSC 270 – L100 – B 20 R E – H1 K1 S3 □/□W

电动缸系列 Electric cylinder series

截面尺寸(mm) Section size
270x270

行程(mm) Travel distance
50~6000
50间隔
50mm Pitch

丝杆类型 Screw type
A:梯形 Trapezoid
B:滚珠 Ball bearings

丝杆导程 Lead Screw
20mm
25mm

减速比/功率 Reduction /ratio power

推杆设计 Push rod design
R:可旋转 Rotatable
无:不可旋转 Non rotatable

电机连接 Motor connection
E:直连 Direct connection
F:折返 Turn back
L:转角 Corner

电缸安装方式 Installation method of electric cylinder
H1:底部螺纹 Bottom thread
H2:底板 Base plate
H3:前法兰 Front flange
H4:尾部法兰 Tail flange
H5:尾部凸销 Tail protruding pin
H6:尾部销孔 Tail pin hole
H7:客户定制 Customer customization

负载连接方式 Load connection method
K1:外螺纹 External thread
K2:内螺纹 Internal thread
K3:杆端关节轴承 Rod end joint bearing
K4:杆端双叉销孔 Double fork pin hole at the rod end
K5:浮动接头 Floating connector
K6:用户定制 User customization

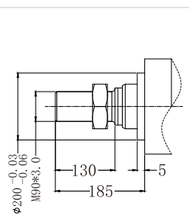
传感器 sensor
S3:3只标配常开 3 pcs standard N.O.
S2.1:2常闭1常开 2N.C.1N.O.
N3:3只NPN常开 3 pcs NPN N.O.
P3:3只PNP常开 3 pcs PNP N.O.
N2.1:NPN 2常闭1常开 NPN 2N.C.1N.O.
P2.1:PNP 2常闭1常开 PNP 2N.C.1N.O.

缸体内径 (mm) Inner diameter of cylinder body	∅220			
缸体外形 (mm) Cylinder body shape	∅270			
丝杆直径 (mm) Screw diameter	∅100			
伺服功率 Servo power	11.8KW			
伺服转速(r/min) Servo speed	1500			
导程(mm) Lead	20		25	
减速比 Reduction ratio	1	40	1	30
最高速度(mm/s) Maximum speed	500	12.5	500	16
额定出力(Kg) Rated output	1085	43407	1695	50868
额定承载 Rated load capacity	50T			
本体最大承载 Maximum load-bearing capacity of the body	60T			
行程(mm) stroke	50-6000			
重复定位精度(mm) Repetitive positioning accuracy	±0.02			
防护等级 Protection grade	Ip65			
有效行程 Effective stroke	50	100	150	200	250	300
重量kg Weight	357.7	371.6	385.5	399.4	413.3	427.2
	行程每增加50mm,重量增加13.9kg For every50mm increase in travel, the weight increases by 13.9kg					

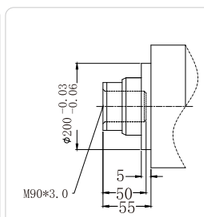
注:其他功率伺服电机匹配参数请与我们联系:400-9977-398
Note: For other matching parameters of power servo motors, please contact us at 400-9977-398

负载连接方式 Load connection method

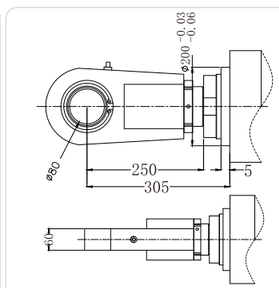
*注:其他连接方式需要定制时请与我司工程师联系
*Note: If other connection methods need to be customized, please contact our engineers



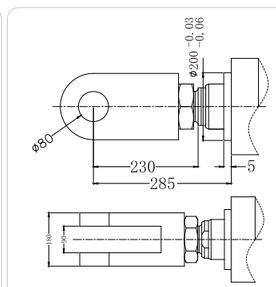
K1 外螺纹 External thread



K2 内螺纹 Internal thread



K3 杆端关节轴承 Rod end joint bearing

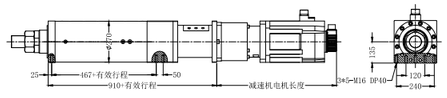


K4 杆端双插销孔 Double pin holes at the rod end

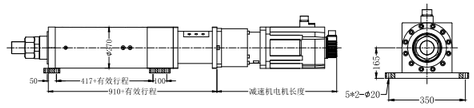
直连式 Direct connection type

2D CAD 3D CAD

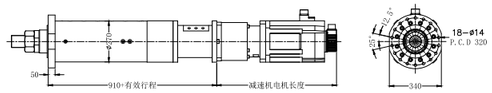
*注：匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



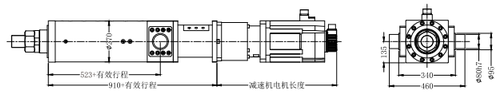
H1 底部螺纹孔 Bottom threaded hole



H2 底板 Base plate



H3 前法兰 Front flange

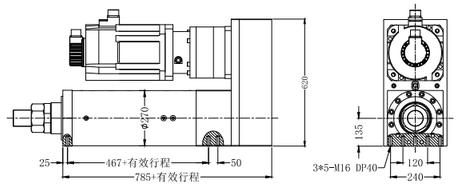


H5 尾部凸销 Tail protruding pin

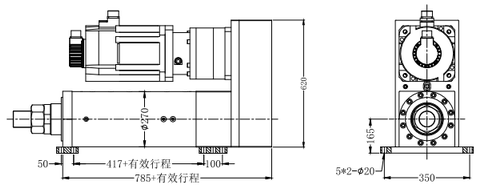
折返式 Foldback

2D CAD 3D CAD

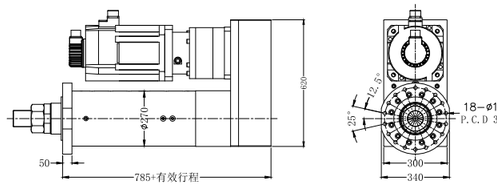
*注：匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



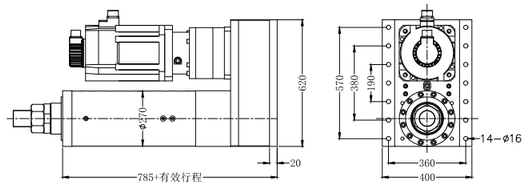
H1 底部螺纹孔 Bottom threaded hole



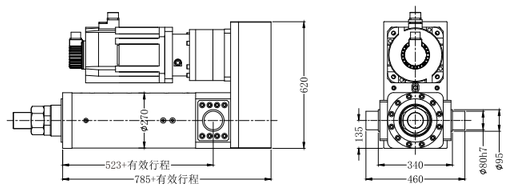
H2 底板 Base plate



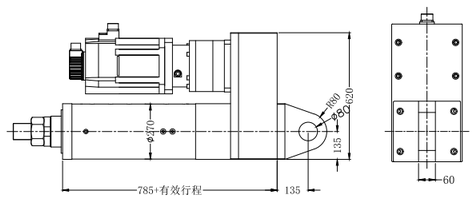
H3 前法兰 Front flange



H4 尾部法兰 Tail flange



H5 尾部凸销 Tail protruding pin



H6 尾部销孔 Tail pin hole

注：折返式行程≤200mm时，电机长度可能会超过前法兰
Note: When the return stroke is ≤200mm, the motor length may exceed the front flange

TYSC 320 – L100 – B 32 R E – H1 K1 S3 □/□W

电动缸系列 Electric cylinder series

截面尺寸(mm) Section size
320x320

行程(mm) Travel distance
50~2000
50间隔
50mm Pitch

丝杆类型 Screw type
A:梯形 Trapezoid
B:滚珠 Ball bearings

丝杆导程 Lead Screw
32mm

减速比/功率 Reduction /ratio power

推杆设计 Push rod design
R:可旋转 Rotatable
无:不可旋转 Non rotatable

电机连接 Motor connection
E:直连 Direct connection
F:折返 Turn back
L:转角 Corner

电缸安装方式 Installation method of electric cylinder
H1:底部螺纹 Bottom thread
H2:底板 Base plate
H3:前法兰 Front flange
H4:尾部法兰 Tail flange
H5:尾部凸销 Tail protruding pin
H6:尾部销孔 Tail pin hole
H7:客户定制 Customer customization

负载连接方式 Load connection method
K1:外螺纹 External thread
K2:内螺纹 Internal thread
K3:杆端关节轴承 Rod end joint bearing
K4:杆端双叉销孔 Double fork pin hole at the rod end
K5:浮动接头 Floating connector
K6:用户定制 User customization

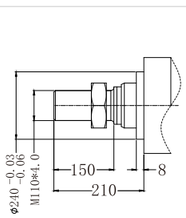
传感器 sensor
S3:3只标配常开 3 pcs standard N.O.
S2.1:2常闭1常开 2N.C.1N.O.
N3:3只NPN常开 3 pcs NPN N.O.
P3:3只PNP常开 3 pcs PNP N.O.
N2.1:NPN 2常闭1常开 NPN 2N.C.1N.O.
P2.1:PNP 2常闭1常开 PNP 2N.C.1N.O.

缸体内径 (mm) Inner diameter of cylinder body	∅280			
缸体外形 (mm) Cylinder body shape	∅320			
丝杆直径 (mm) Screw diameter	∅125			
伺服功率 Servo power	15KW		22KW	
伺服转速(r/min) Servo speed	1000		1500	
导程(mm) Lead	32		32	
减速比 Reduction ratio	1	32	1	32
最高速度(mm/s) Maximum speed	533	16	800	22
额定出力(Kg) Rated output	2048	65563	1978	69237
额定承载 Rated load capacity	80T			
本体最大承载 Maximum load-bearing capacity of the body	88T			
行程(mm) stroke	50-2000			
重复定位精度(mm) Repetitive positioning accuracy	±0.02/±0.01			
防护等级 Protection grade	Ip65			
有效行程 Effective stroke	50	100	150	200
重量kg Weight	479.8	498.3	516.8	535.3
	行程每增加50mm,重量增加18.5kg For every50mm increase in travel, the weight increases by18.5kg			

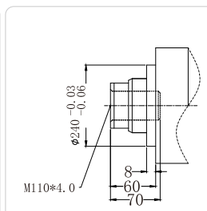
注:其他功率伺服电机匹配参数请与我们联系:400-9977-398
Note: For other matching parameters of power servo motors, please contact us at 400-9977-398

负载连接方式 Load connection method

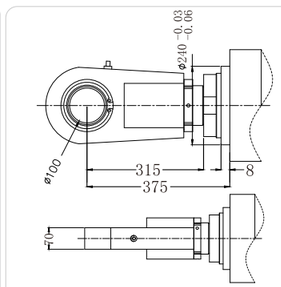
*注:其他连接方式需要定制时请与我司工程师联系
*Note: If other connection methods need to be customized, please contact our engineers



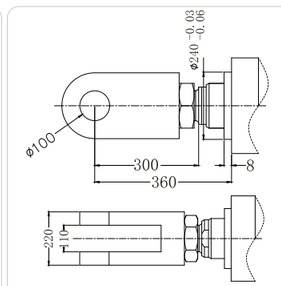
K1 外螺纹 External thread



K2 内螺纹 Internal thread



K3 杆端关节轴承 Rod end joint bearing

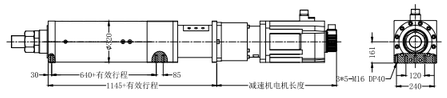


K4 杆端双插销孔 Double pin holes at the rod end

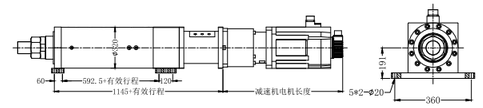
直连式 Direct connection type

2D CAD 3D CAD

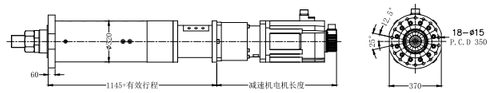
*注：匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



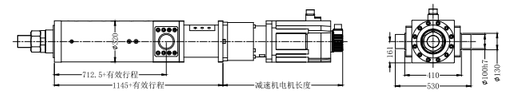
H1 底部螺纹孔 Bottom threaded hole



H2 底板 Base plate



H3 前法兰 Front flange

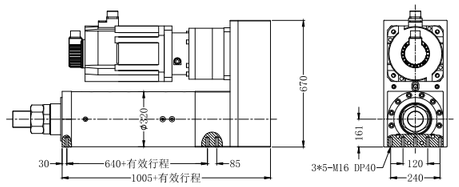


H5 尾部凸销 Tail protruding pin

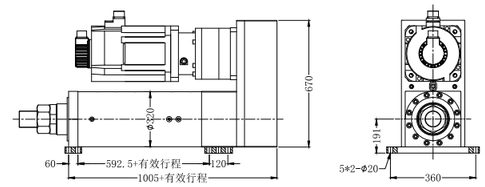
折返式 Foldback

2D CAD 3D CAD

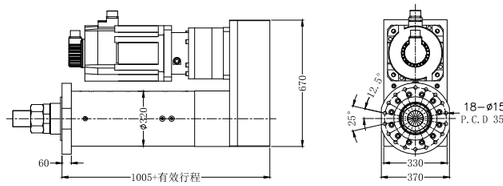
*注：匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



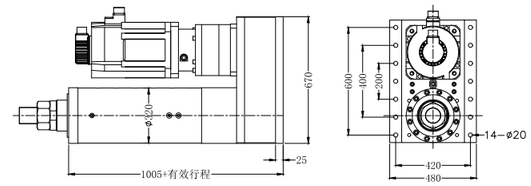
H1 底部螺纹孔 Bottom threaded hole



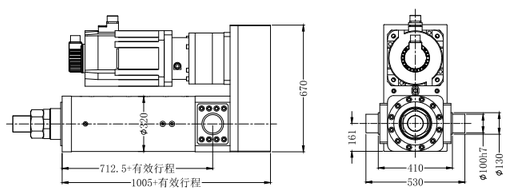
H2 底板 Base plate



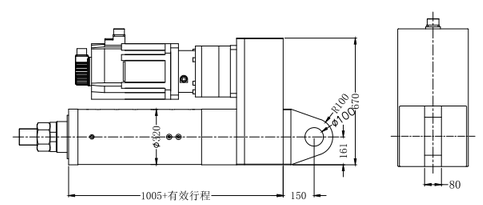
H3 前法兰 Front flange



H4 尾部法兰 Tail flange



H5 尾部凸销 Tail protruding pin



H6 尾部销孔 Tail pin hole

注：折返式行程≤150mm时，电机长度可能会超过前法兰
Note: When the return stroke is ≤150mm, the motor length may exceed the front flange

TYSC 420 – L100 – B 40 R E – H1 K1 S3 □/□W

电动缸系列 Electric cylinder series

截面尺寸(mm) Section size
420x420

行程(mm) Travel distance
50~7000
50间隔
50mm Pitch

丝杆类型 Screw type
A:梯形 Trapezoid
B:滚珠 Ball bearings

丝杆导程 Lead Screw
40mm

减速比/功率 Reduction /ratio power

推杆设计 Push rod design
R:可旋转 Rotatable
无:不可旋转 Non rotatable

电机连接 Motor connection
E:直连 Direct connection
F:折返 Turn back
L:转角 Corner

电缸安装方式 Installation method of electric cylinder
H1:底部螺纹 Bottom thread
H2:底板 Base plate
H3:前法兰 Front flange
H4:尾部法兰 Tail flange
H5:尾部凸销 Tail protruding pin
H6:尾部销孔 Tail pin hole
H7:客户定制 Customer customization

负载连接方式 Load connection method
K1:外螺纹 External thread
K2:内螺纹 Internal thread
K3:杆端关节轴承 Rod end joint bearing
K4:杆端双叉销孔 Double fork pin hole at the rod end
K5:浮动接头 Floating connector
K6:用户定制 User customization

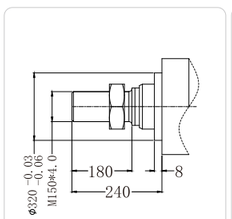
传感器 sensor
S3:3只标配常开 3 pcs standard N.O.
S2.1:2常闭1常开 2N.C.1N.O.
N3:3只NPN常开 3 pcs NPN N.O.
P3:3只PNP常开 3 pcs PNP N.O.
N2.1:NPN 2常闭1常开 NPN 2N.C.1N.O.
P2.1:PNP 2常闭1常开 PNP 2N.C.1N.O.

缸体内径 (mm) Inner diameter of cylinder body	∅350							
缸体外形 (mm) Cylinder body shape	∅420							
丝杆直径 (mm) Screw diameter	∅200							
伺服功率 Servo power	42.4KW							
伺服转速(r/min) Servo speed	1500							
导程(mm) Lead	40							
减速比 Reduction ratio	1	40						
最高速度(mm/s) Maximum speed	1000	25						
额定出力(Kg) Rated output	3052	106822						
额定承载 Rated load capacity	100T							
本体最大承载 Maximum load-bearing capacity of the body	110T							
行程(mm) stroke	50-7000							
重复定位精度(mm) Repetitive positioning accuracy	±0.02							
防护等级 Protection grade	Ip65							
有效行程 Effective stroke	50	100	150	200	250	300	350	400
重量kg Weight	1161.4	1201	1240.6	1280.2	1319.8	1359.4	1399	1438.6
	行程每增加50mm,重量增加39.6kg For every50mm increase in travel, the weight increases by39.6kg							

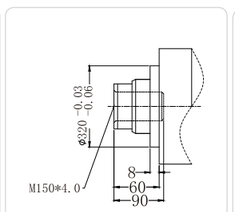
注:其他功率伺服电机匹配参数请与我们联系:400-9977-398
Note: For other matching parameters of power servo motors, please contact us at 400-9977-398

负载连接方式 Load connection method

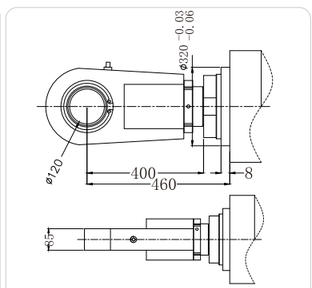
*注:其他连接方式需要定制时请与我司工程师联系
*Note: If other connection methods need to be customized, please contact our engineers



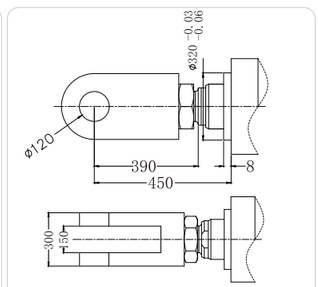
K1 外螺纹 External thread



K2 内螺纹 Internal thread



K3 杆端关节轴承 Rod end joint bearing

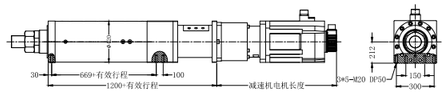


K4 杆端双插销孔 Double pin holes at the rod end

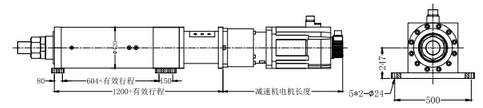
直连式 Direct connection type

2D CAD 3D CAD

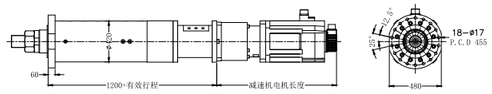
*注：匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



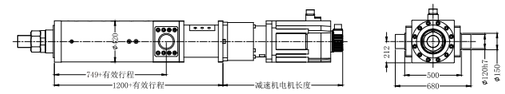
H1 底部螺纹孔 Bottom threaded hole



H2 底板 Base plate



H3 前法兰 Front flange

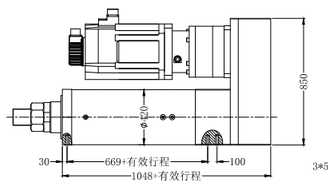


H5 尾部凸销 Tail protruding pin

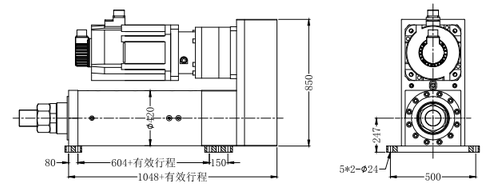
折返式 Foldback

2D CAD 3D CAD

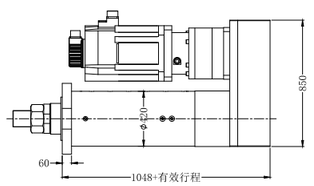
*注：匹配不同品牌电机减速机、不同功率时，电机安装板尺寸可能会有变化
*Note: When matching different brands of motor reducers and different powers, the size of the motor mounting plate may vary



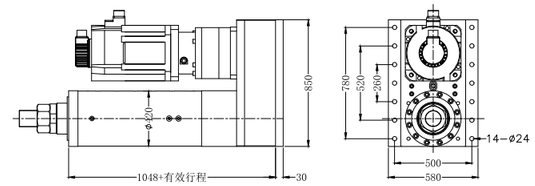
H1 底部螺纹孔 Bottom threaded hole



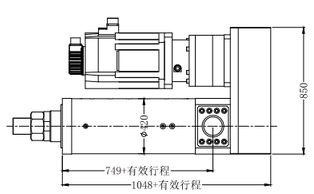
H2 底板 Base plate



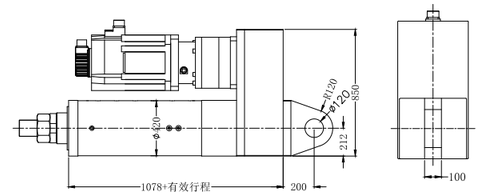
H3 前法兰 Front flange



H4 尾部法兰 Tail flange



H5 尾部凸销 Tail protruding pin



H6 尾部销孔 Tail pin hole

注：折返式行程≤200mm时，电机长度可能会超过前法兰
Note: When the return stroke is ≤200mm, the motor length may exceed the front flange

TYSI060 - L80 - G2.5 - H3K1

一体式电缸
Integrated electric cylinder

截面尺寸（mm）
Section size
60×60
80×80
100×100
130×130
180×180

有效行程（mm）
Travel distance
L80-300

丝杆类型
Screw type
滚柱丝杆
Roller lead screw

丝杆导程
Lead Screw
2.5mm
3mm
5mm
6mm
7.5mm

电缸安装方式
Installation method of electric cylinder
H1：底部螺纹
Bottom thread
H3：前法兰
Front flange
H4：尾部法兰
Tail flange
H5：尾部凸销
Tail protruding pin
H6：尾部销孔
Tail pin hole

负载连接方式
Load connection method
K1：螺栓头
Bolt head
K3：杆端关节轴承
Rod end joint bearing
K4：杆端双叉销孔
Double fork pin hole at the rod end

	TYSI060	TYSI080	TYSI100		TYSI130	TYSI180
机械参数 MACHINERY PARAMETERS						
丝杠导程(mm) Lead screw lead	2.5	3	3	5	6	7.5
额定推力(N) Rated thrust	3500	7000(8900)	15000	10000	30000	50000
最大推力(N) Maximum thrust	5250	10500	22500	15000	45000	75000
额定速度 (mm/s) Rated speed	125	150	150	250	100	125
行程(mm) Stroke	80-100	80-150	100-250	100-250	150-250	150-300
常规行程(mm) Regular stroke	100	150	150/200	150/200	150	150/230
转动惯量(kg.cm²) Moment of inertia	1.1	3.2	14	14	45	129
重量(kg) Weight	2.7	7.5	11	11	32	55
电气参数 ELECTRICAL PARAMETERS						
电压 (V) Voltage	220	220	220	380	380	380
额定转速(rpm) Rated rotational speed	3000	3000	3000	3000	1000	1000
额定电流(A) Rated current	3.2	6.4	10.7	6.5	14	17
峰值电流(A) Peak current	6.4	12.8	21.4	13	28	34
额定功率(KW) Rated power	0.55	1.5	2.8	1.5	4	7
额定扭矩(N.m) Rated torque	1.75	4.78	8.91	8.91	38	66.87
峰值扭矩(N.m) Peak torque	3.5	9.54	17.82	17.82	57	133.74
反电势(mv/rpm) Counter electromotive force	52	55	56	95	230	276
力矩系数 (N.m/A) Torque coefficient	0.55	0.75	0.83	1.37	3.8	4.31
电气时间常数(te),ms Electrical time constant	3.75	7	7	6.72	8.98	33
机械时间常数(tm),ms Mechanical time constant	1.27	0.75	2.29	2.59	1.66	1.55
线电阻(Ω) Wire resistance	3.76	1.01	0.75	3.84	1.81	0.87
线电感(mH) Wire inductance	14.1	8.4	5.3	24.4	31.3	23.3

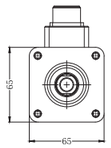
名词定义：
额定推力:电动缸在电机额定扭矩下产生的推力。
额定转速:电动缸在电机额定转速下达到的直线速度。
Ca额定动载:丝杆的动载常数。

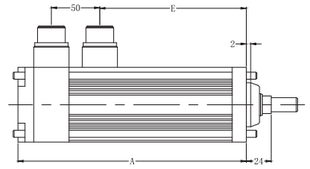
Definition of noun:
Rated thrust: The thrust generated by the electric cylinder under the rated torque of the motor.
Rated speed: The linear speed that the electric cylinder reaches at the rated speed of the motor.
Ca rated dynamic load: The dynamic load constant of the lead screw.

一体式电缸060系列
Direct connection type

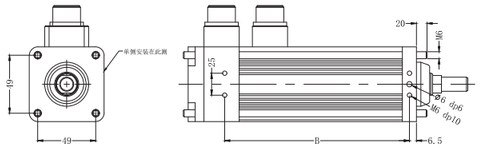
TYSI060基本单元
TYSI060 Basic Unit

尺寸单位：mm
Unit of size

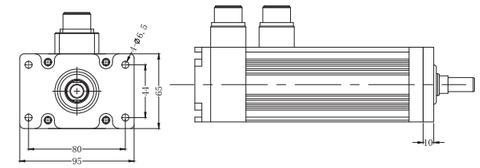




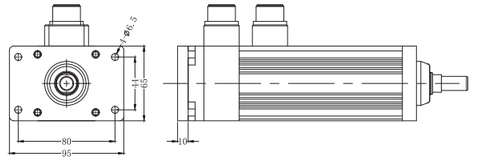
一体式电缸安装方式
Integrated electric cylinder installation method



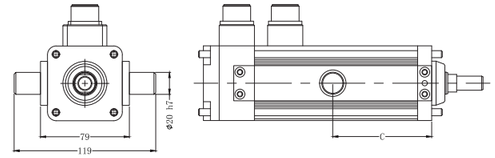
H1 底部螺纹孔
Bottom threaded hole



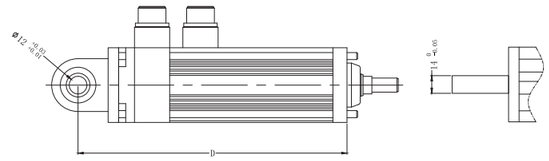
H3 前法兰
Front flange



H4 尾部法兰
Tail flange



H5 尾部凸销
Tail protruding pin



H6 尾部销孔
Tail pin hole

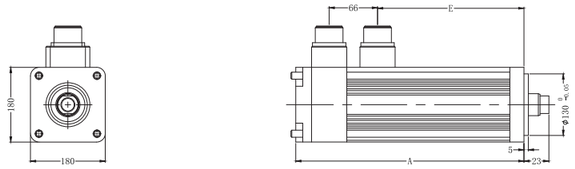
尺寸 Size	行程50mm Stroke	行程70mm Stroke	行程100mm Stroke
A	169	194	219
B	137	162	187
C	70	95	120
D	199	224	249
E	119	144	169

注:1.如果选择制动电机尺寸A.D及尺寸1增加37mm
2.缸体尺寸会因插头形式及反馈形式不同而有变化,以最终确认图纸为准

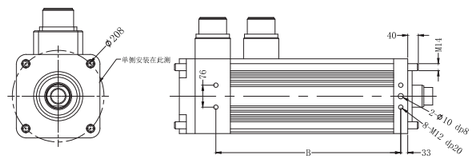
Note :1. If the brake motor size A, D and size 1 are selected, increase by 37mm
2. The dimensions of the cylinder block may vary due to different plug forms and feedback forms. The final confirmed drawing shall prevail

一体式电缸180系列
Direct connection type

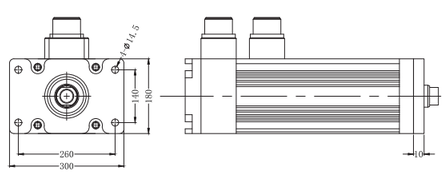
ZGIES180基本单元　尺寸单位：mm
ZGIES180 Basic Unit　Unit of size



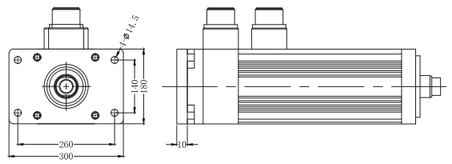
一体式电缸安装方式
Integrated electric cylinder installation method



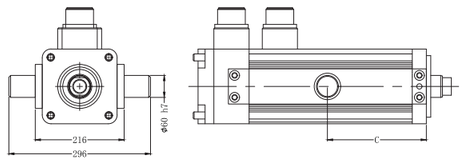
H1 底部螺纹孔
Bottom threaded hole



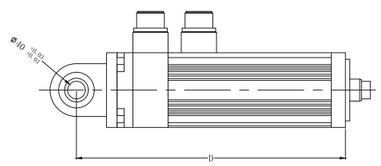
H3 前法兰
Front flange



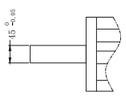
H4 尾部法兰
Tail flange



H5 尾部凸销
Tail protruding pin



H6 尾部销孔
Tail pin hole

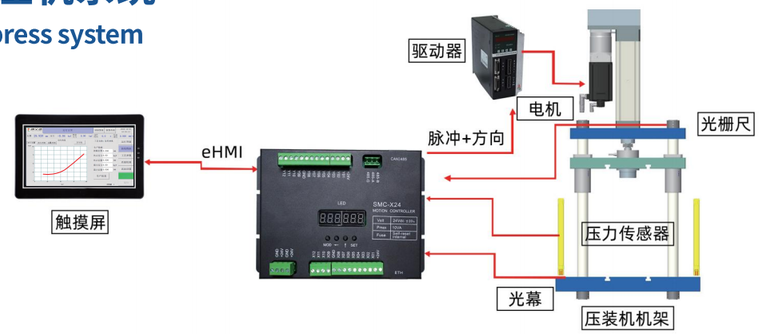


尺寸 Size	行程150mm Stroke	行程200mm Stroke	行程250mm Stroke	行程300mm Stroke
A	395	445	495	545
B	315.5	365.5	415.5	465.5
C	191	241	291	341
D	461.5	511.5	561.5	611.5
E	298	348	398	448

注:1.如果选择制动电机尺寸A.D及尺寸1增加85mm
2.缸体尺寸会因插头形式及反馈形式不同而有变化,以最终确认图纸为准

Note :1. If the brake motor size A, D and size 1 are selected, increase by 85mm
2. The dimensions of the cylinder block may vary due to different plug forms and feedback forms. The final confirmed drawing shall prevail

伺服压机系统
Servo press system



初始登录界面

初始运行界面

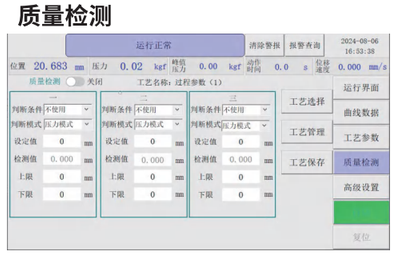
报警处理

生产报表

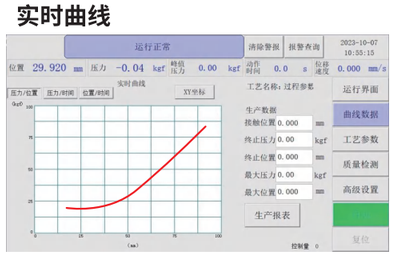
数据导出

曲线生成

质量检测



实时曲线



TYSD 095 – L100 – A 5 E – H1 K1 S3 3/50W

多级缸系列 Multi-stage cylinder series

截面尺寸（mm） Section size
95x95
110x110
135x135
定制 Customized

行程（mm） Travel distance

丝杆类型 Screw type
A：梯形 Trapezoid
B：滚珠 Ball bearings

丝杆导程 Lead Screw
2.5mm

减速比/功率 Reduction /ratio power

电机连接 Motor connection
E：直连 Direct connection
F：折返 Turn back
L：转角 Corner

电缸安装方式 Installation method of electric cylinder
H1：底部螺纹 Bottom thread
H2：底板 Base plate
H3：前法兰 Front flange
H4：尾部法兰 Tail flange
H7：客户定制 Customer customization

负载连接方式 Load connection method
K1：外螺纹 External thread
K2：内螺纹 Internal thread
K3：杆端关节轴承 Rod end joint bearing
K4：杆端双叉销孔 Double fork pin hole at the rod end
K6：用户定制 User customization

传感器 sensor
S3：3只标配常开 3 are normally open as standard
S2.1：2常闭1常开 1 2 normally closed 1 normally open
N3：3只NPN常开 3 NPN normally open
P3：3只PNP常开 3 PNP normally open
N2.1：NPN 2常闭1常开 1 NPN 2 normally closed 1 normally open
P2.1：PNP 2常闭1常开 1 PNP 2 normally closed 1 normally open

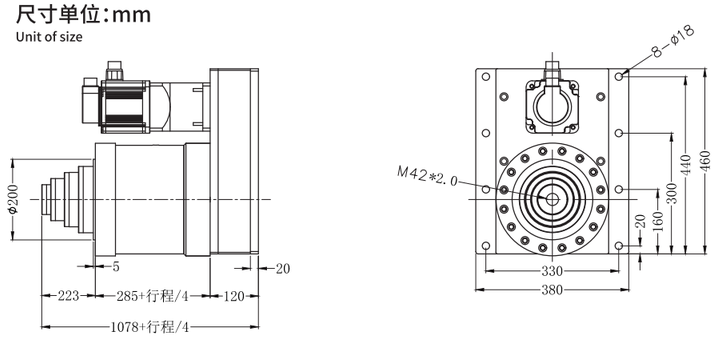
	2节伸缩电动缸 Two telescopic electric cylinders								4节伸缩电动缸 four telescopic electric cylinder	
伸缩电动缸型号 Model of telescopic electric cylinder	TYSD095			TYSD110			TYSD135		TYSD270	
伺服功率（KW） Servo power	0.4	0.4	0.75	0.75	0.75	1	1	1	1.5	2
伺服转速（r/min） Servo speed	3000									
伺服额定扭矩（N.m） Rated torque of servo	1.27	1.27	2.39	2.39	2.39	3.18	3.18	3.18	4.9	6.36
丝杆导程（mm） Lead screw lead	1605/3005			3805/4805			4205/5205		3005/4205/5205/6205	
减速比 Reduction ratio	5:1	7:1	4:1	5:1	7:1	5:1	7:1	8:1	5:1	5:1
额定推力（KN） Rated thrust	2	3	3.5	4	5	5.5	7	8	8	10
额定速度（mm/s） Rated speed	100	70	125	100	70	100	70	60	200	200
最大行程（mm） Maximum stroke	2000			2000			2000		3500	

名词定义：
额定推力：电动缸在电机额定扭矩下产生的推力。
额定转速：电动缸在电机额定转速下达到的直线速度。

Definition of noun:
Rated thrust: The thrust generated by the electric cylinder under the rated torque of the motor.
Rated speed: The linear speed that the electric cylinder reaches at the rated speed of the motor.

TYSD270-4节
TYSD270 -4Section

尺寸单位：mm
Unit of size

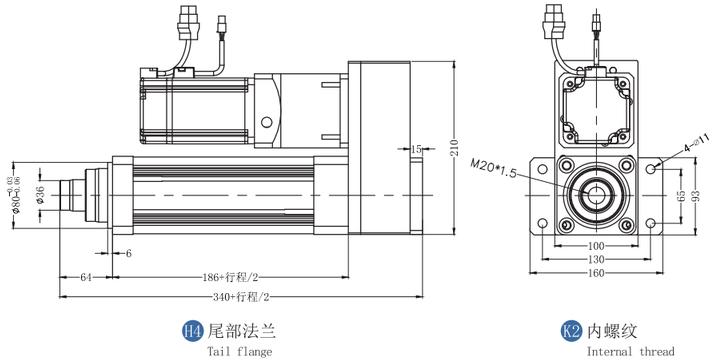


H4 尾部法兰 Tail flange　　K2 内螺纹 Internal thread

多级式电缸095系列
Multi-stage electric cylinder

TYSD095-2节
TYSD095 -2Section

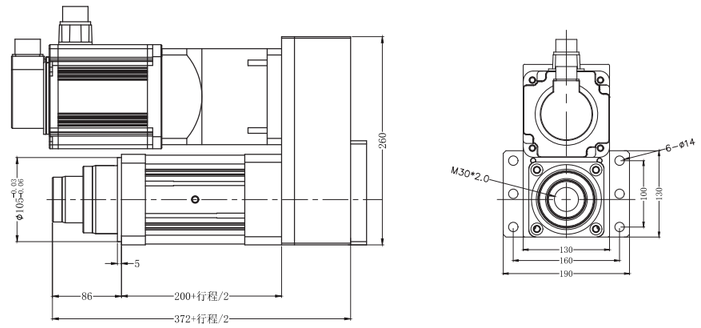
尺寸单位：mm
Unit of size



H4 尾部法兰 Tail flange　　K2 内螺纹 Internal thread

TYSD110-2节
TYSD110 -2Section

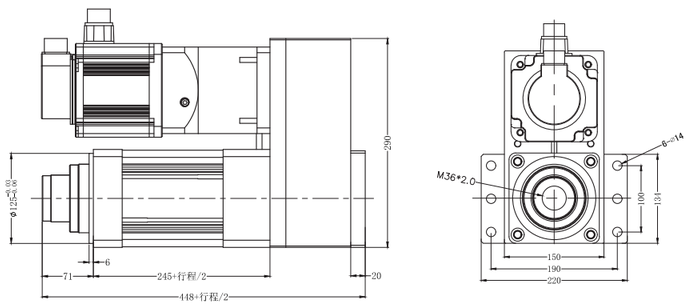
尺寸单位：mm
Unit of size



H4 尾部法兰 Tail flange　　K2 内螺纹 Internal thread

TYSD135-2节
TYSD135 -2Section

尺寸单位：mm
Unit of size



H4 尾部法兰 Tail flange　　K2 内螺纹 Internal thread

注：对产品有特殊要求可定制，请联系生产厂家了解更多详情。
Note: Special requirements for the product can be customized. Please contact the manufacturer for more details.

电缸应用场景

Application scenarios of electric cylinders