直线运动及导向产品系列

您正浏览"螺杆系统"手册,其他产品信息详见对应产品手册。

You Are Reading The "Screw System" Manual. For Other Product Information, Please Refer To The Corresponding Product Manual.

■ 螺杆系统

SCREW SYSTEM

■工业机械手

LINEAR MODULE

■直线导轨

■ 联轴器 COUPLING

LINEAR GUIDE

WEIYUAN LINEAR PRODUCT

威远直线运动产品系列

螺杆系统-SCREW SYSTEM

本产品手續表示的技术規格是准确可靠的。用户应仔细 认真地确定选用产品的适宜性。若有不详应与我公司技术部门联系。尽管我们将对有缺陷的产品予以更换。但 我们不适用部出处种更换以外的任何责任。 The Technical Specifications Indicated in This Product Manual, Are Accurate An Reliable. Users Should Carefully Determine The Suitability Of The Selected Product if There is Any Uncertainty, Psease Contact Our Technical Department. Although Wi Will Replace Defective Products, We Do Not Accept Any Responsibility Beyond Suct Performant.



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精益求精 创新不止

KEEP IMPROVING KEEP INNOVATION

威运为航天航空、智慧车辆、医疗器械、光热发电、工业自动化等领域提供 优质可靠的产品,秉承工资精神为打造"百年工业品牌"而不懈努力!

WEIYUAN provides high-quality and reliable products for Aerospace, Smart Vehicles, Medical Equipment, SolarThermal Power Generation, Industrial Automation and other fields. Weiyuan makes unremitting efforts to build



领先工艺 精益制造

P

PER PROPERTY.

LEADING TECHNOLOGY LEAN MANUFACTURING

公司以趋厚的技术力量、完善的企业运营及生产管理制度、一流的品质及服务质量,直得了广大乃 至海外客户的认可和赞誉。公司在研发设备、技术工艺及产品质量等方面均属国内领先水平。

The company has strong technical force, perfect enterprise operation and production management system, first-class quality and service quality, and has won the recognition and praise of the majority of customers and even overseas customers. The company is a domestic leader in research and development equipment, technology and product quality.







1995年

公司创立 Founded

2002年

深圳总部基地和 研发中心建立 Shenzhen Headquarters and R&D Center Established.

安徽-滁州杭州南路898年 ANHUI WEIYUAN

2005年

成功开发多数 先进滚珠循环系统 A variety of advanced ball circulation systems were successfully developed.

2009年

nzhen Headquarters

深刻世內宝文在通专精特新产业员 3 株 2 单元 Un 12, building 3, Zhuanjing Texin Industrial Park, Baolong Street, Longgang District, Shenzben,

国家高新技术企业 National High-Tech Enterprise. 2012年

多数自研 工业机械手面市 A variety of self-developed industrial robots are launched.

2016年

安徽生产基地正式投产。 成为行业标杆 Anhui production base officially put into production, becoming the industry benchmark.

2017年

广东省著名商标 Famous Brand of Guangdong Province. 2020年

总体技术及应用达到 国际先进水平 The overall technology and application reach the international advanced level.

2022年

国家级专精特新 "小巨人" 企业 National Small Giant Enterprise.

2024年

深圳总部落地龙岗宝龙 Shenzhen headquarters landing in Longgang Baolong.















威远介绍 COMPANY PROFILE

威运自1995年创立以来倾心致力于滚珠丝杠、直线导轨、直线运动单元、 机械手和工业执行器等产品的研发制造,并向客户提供成套的自动化解决 方案。

威远拥有一流的研发团队和多项自主专利技术,在华南、华东设有生产基 地,在北京、上海、成都、西安等地设立营销及服务中心,产品销往全球 30多个国家及地区。

威远旗下拥有二大著名品牌"WEIYUAN威远"、"WARNER华纳",现已 成为国内配套最齐全、综合生产能力最大的直线运动产品生产基地,国内 领先的直线运动产品和自动化解决方案供应商。

WEIYUAN dedicates to the R&D and production of Ball Screws, Ball Rail and Industrial Actuators etc. and provides customers with complete automation solutions.

WEIYUAN has a first-class R&D team and a number of independent patented technologies. It has production bases in South China and East China, and marketing and service centers in Beijing, Shanghai, Chengdu, Xi'an and other places. The products are sold to more than 30 countries and regions around the world.

WEIYUAN has two well-known brands "WEIYUAN" and "WARNER". Now it has become the production base of linear motion products with the largest comprehensive production capacity in China, and the leading domestic supplier of linear motion products and automation solutions.







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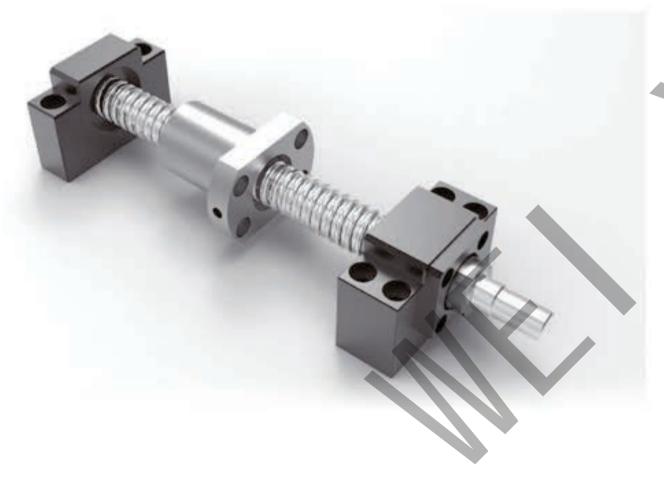
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威远滚珠丝杆系统 **Weiyuan Ball Screw System**





螺母里面的滚珠以回流的形式进行单列循环,圆柱凸

螺母滚珠循环方式

Ball Recirculation

Steel balls in the nut recirculate in one line with an inverse flow style. The cylindrical part of the deflector is inserted in the nut and the face has a reverse groove which is positioned by the cylindrical diameter and the round keyway, in order to make sure the correct direction of thread groove.



在经过若干圈之后,滚珠通过整合在螺母中的塑料或 者钢制返向器返回。内部循环设计使功能作用均匀, 滚珠数量多而拥有很高的额定载荷,还有超短的螺母 结构,光滑的螺母外表,高效的的防尘密封,且螺母 无凸出零件,便于安装。

After several circulations, the steel balls return through a plastic or metal deflector in the nut. The design of internal return make the function equally effect. Plenty of balls enable high load rating and super short nut structure, smooth nut surface, high efficient sealing as well as no projecting components of nut make it easy to install.





精密滚珠丝杆副的特点

一. 与滑动丝杆相比, 驱动扭矩仅为滑动丝杆的 1/3 Compared with ACME screws, the drive torque of ball screws is only 1/3

滚珠丝杆副是由丝杆、螺母、滚珠、密封件等零件组成的高精度机械传动部件,由于滚珠丝杆副的丝 杆与螺母之间有滚珠在做滚动运动,所以能得到较高的运动效率,与滑动丝杆相比,驱动扭矩在1/3 以下。因此,不仅能把回转运动转变为直线运动,也能容易地将直线运动变为回转运动。下图 1、图 2 即反映出滚珠丝杆与滑动丝杆传动效率的关系以及滚动丝杆传动效率与摩擦系数、导程角的关系。 A ball screw assembly is a kind of high precision mechanical transmission part, comprising a ball screw shaft, a ball nut, steel rolling balls, sealing parts and other components. Due to the steel balls rolling between screw shaft and ball nut, ball screw assembly can reach a high mechanical efficiency and only 1/3 of drive torque compared with ACME screws, converting rotary motion into linear motion and vice versa. Chart 1 and chart 2 below have shown the efficiency comparison of ball screw and ACME screw.

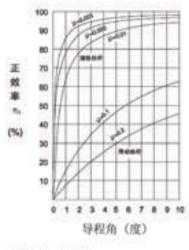


图 1: (旋转→直线)

Chart 1: Efficiency of normal operation

(rotary motion - linear motion)

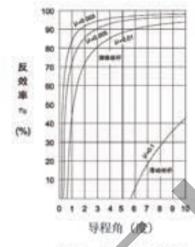


图 2: (直线→旋转)

Chart 2: Back drive efficiency

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(linear motion - rotary motion)

导程角的计算方法 Calculation of lead angle

$$\tan \beta = \frac{\rho_h}{\pi \cdot d_p}$$
 (1)

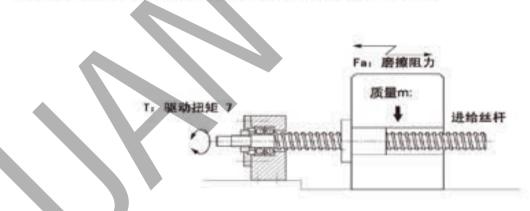
β: 导程角度 Lead angle (degree)

dp: 滚珠中心直径 Steel ball diameter (mm) ph: 进给丝杆的导程 Feed screw lead (mm)

二、推力与扭矩的关系 Relationship Between Thrust And Torque

当施加推力或扭矩时,所产生的扭矩或推力可用(2)~(4)式计算。 Torque or thrust can be obtained by formula (2)~(4), when a thrust or a torque is implemented

1. 获得所需推力的驱动扭矩 Drive Torque Of Needed Thrust



$$T = \frac{Fa \cdot L}{2\pi \cdot \eta_1} \qquad (2)$$

T: 驱动扭矩 Drive Torque

Fa: 导向面的摩擦阻力 Axial Load

Fa=u×mq

μ: 导向面的摩擦系数 Friction Coefficient of The Guide Way

g: 重力加速度 (9.8m/s2) Gravitation Acceleration (9.8m/s)

m: 运送物的质量 (kg) Work Mass (kg)

L: 进给丝杆的导程 (mm) Feed Screw Lead (mm)

η1: 进给丝杆的正效率 (图 1) Feed Screw Normal Efficiency (table 1)

2. 施加扭矩时产生的推力 Thrust Converted From Torque

$$Fa = \frac{2\pi \cdot \eta_1 \cdot T}{\rho_h} \dots (3)$$

Fa: 产生的推力 Thrust (N)

T: 驱动扭矩 Drive Torque (N mm)

ph: 进给丝杆的导程 Feed Screw Lead (mm)

n,: 进给丝杆的正效率 (图 1) Normal Efficiency (table 1)

3. 施加推力时产生的扭矩 Torque converted from thrust

$$T = \frac{Fa \cdot \rho_h \cdot \eta_2}{2\pi} \quad (4)$$

T: 驱动扭矩 Drive torque (N mm)

BALL SCREW SYSTEM

Fa: 产生的推力 Thrust (N)

ph: 进给丝杆的导程 Feed screw lead (mm)

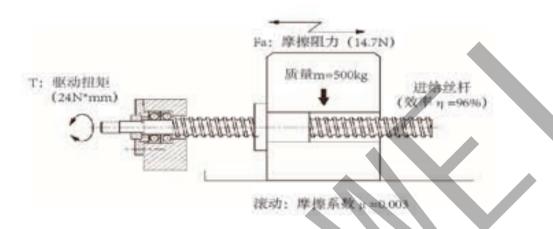
η: 进给丝杆的正效 (图 2) Normal efficiency (table 2)

4. 驱动扭矩的计算例 Calculation of drive torque

用有效直径是: 32mm, 导程: 10mm (导程角: 5°41' 的丝杆, 运送质量为 500Kg 的物体, 其所需的扭矩如下

Effective diameter: 32mm, lead: 10mm, lead angle: 5°41'ball screw, work mass 500Kg Friction coefficient of the guide way, normal efficiency

(1) 滚动导向 (μ=0.003) , 效率 (η=0.96)



导向面的摩擦阻力 Axial load Fa=0.003×500×9.8=14.7N 驱动扭矩 Drive torque

$$T = \frac{14.7X10}{2\pi X0.96}$$

三. 临界转速 Critical Speed

当发生共振时的速度,称为临界转速。共振产生时会造成加工品不良,甚至造成设备损坏,所以一定要避免电机的转速和滚珠螺杆的自然频率发生共振。临界转速 n 取决于丝杆的直径、安装形式以及自由长度 L。非预紧螺母不用考虑导向间隙。工作转速最大只可取到临界转速的 80%。

When resonance occurs, the rotary speed is called critical speed. The critical speed depends on the diameter of the screw, the type of end fixity and the free length L. No allowance must be made forguidance by a nut without preload. The operating speed should not reach more than 80% of the critical speed.



$$n=f\cdot \tfrac{d_1}{L^2} \cdot 10^7 (min^{-1})$$

$$n_k = n \cdot 0.8(min^{-1})$$

n= 临界转速 critical speed(min-1)

n_k= 允许工作转速 permissible operating speed(min-1)

作系数,由安装形式决定 corrector value, determined by mounting

d = 螺纹根径 root diameter (mm)

L²= 安装间距 mounting distance (mm) (丝杆两端之间的相对距离 distance betweenbearings)

四、允许轴向负载 Permissible axial load

因为工作台,工件等自重,对丝杆产生的压缩负载,所以必须验算对螺杆轴的弯曲安全性。丝杆工作允许轴向负载是丝杆理论允许轴向负载一半。

Due to the load from work table and work piece, etc, safety check on shaft deflection must be calculated. Ball screw permissible axial load is half of theoretical value.

 m
 安装方式

 40.6
 固定

 20.4
 固定

 10.2
 支撑

 2.6
 固定

 2 支撑
 支撑

 2 支撑
 自由

$$F=m\cdot \frac{{d_1}^4}{L^2}\cdot 10^4(N)$$

$$F_k = \frac{F}{2}(N)$$

F= 丝杆理论允许轴向负载 theoretically permissible axial load on screw

Fx= 丝杆工作允许轴向负载 permissible axial load during operation

m= 系数, 由安装形式决定 corrector value, determined by mounting

d = 螺纹底径 root diameter (mm)

L²= 安装间距 mounting distance (mm) (丝杆两端之间的相对距离 distance between bearings)

五、刚性的计算 Calculation of rigidity

为提高 NC 机床及精密机械进给丝杆的定位精度,以及减少因切削力所引起的位移,有必要综合考虑 各个组成元件的刚性来进行设计。

进给丝杆系统的轴向刚性 Rigidity of the Feed Screw System

进给丝杆系统的轴由刚性用 K 表示,轴向弹性位移量由(5)式求也。 Elastic deformation of the feed screw system can be obtained by formula (5)

$$\delta = \frac{Fa}{K} - (5)$$

δ: 进给丝杆系统的轴向弹性位移量 Volume of axial elastic deformation of the feed screw syste (μm) Fa: 轴向负荷 Axial load (N)

进给丝杆的系统的轴向刚性(K)由6式求出。

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Axial rigidity of the feed screw system can be obtained by formula (6)

$$\frac{1}{K} = \frac{1}{K_S} + \frac{1}{K_N} + \frac{1}{K_B} + \frac{1}{K_H}$$
 (6)

K: 进给丝杆系统的轴向刚性 Axial rigidity of the feed screw system (N/µm)

Ks: 丝杆轴的轴向刚性 Axial rigidity of the screw shaft (N/µm)

K_n: 螺母的轴向刚性 Axial rigidity of the nut (N/µm)

K_B: 支撑轴承的轴向刚性 Axial rigidity of the support bearing (N/µm)

K_{ii}: 螺母支座及轴承座的刚性 Axial rigidity of the nut and bearing mounting section (N/µm)

1. 丝杆轴的轴向刚性 Axial rigidity of the screw shaft 丝杆轴的轴向刚性, 因丝杆轴的安装方法不同, 会有差异。

(1) 当安装方法是 (固定 --- 支撑) 时 Ball screw shaft is fixed at one end



$$K_S = \frac{A \cdot E}{1000 \cdot L}$$

A: 丝杆轴断面的面积 area of screw cross section (mm2)

$$A = \frac{\pi}{4} \cdot d_1^2$$

d₁: 丝杆轴沟槽底径 root diameter (mm)

E: 纵向弹性系数 vertical elastic coefficient (2.06×105N/ mm2)

L: 安装间距 mounting distance (mm)

(2) 当安装方法是(固定 --- 固定) 时 Ball screw shaft is fixed at both ends



$$K_{S} = \frac{A \cdot E \cdot L}{1000 \cdot a \cdot b} \tag{8}$$

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当在 $\mathbf{a} = \mathbf{b} = \frac{\mathbf{L}}{2}$ 的位置时,Ks 的值为最小,弹性位移量为最大

When a=b=L/2, Ks has the minimum value and the elastic displacement is maximum

$$K_{S} = \frac{4A \cdot E}{1000L}$$

 螺母的轴向刚性 Axial rigidity of the ball nut 根据预压的不同,螺母的轴向刚性会有很大的差别。

With different preload, the rigidity of ball nut vary significantly

(1) 无预压型式 Rigidity of the nut with axial play

在施加基本额定动负荷 (Ca) 的 30% 的轴向负荷时,基理论轴向刚性值记载在尺寸表中。这个数值不包括螺母支座等有关安装零部件的刚性,一般来说,请以表中数值的 80% 为基准。

Theoretical rigidity value is shown in the dimension table when an axial load equivalent to 30% of the basic dynamic load rotary (Ca) is applied. The criterion of the ball nut rigidity is 80% of the value listed in the table taking into consideration of deformation of the ball nut, etc.

轴向负荷不等于基本额定动负荷(Ca)的30%时,其刚性值由(9)式求出。

The rigidity value is obtained by the following formula when the axial load is not 30% of (Ca).

$$K_N = K(\frac{Fa}{0.3Ca})^{\frac{1}{3}}X0.8$$
 (9)

Kn: 螺母的轴向刚性 Axial rigidity of the ball nut (N/µm)

K: 尺寸表中的刚性值 Rigidity value in dimension tables (N/µm)

Fa: 轴向负荷 Axial load(N)

Ca: 基本额定动负荷 Basic dynamic load rating(N)

(2) 预压型式 Rigidity of the preload ball nut

施加基本额定动负荷 (Ca) 的 10% 的预压时,其理论轴向刚性值记载在尺寸表中。这个数值不包括螺母支座等有关零部件的刚性,一般来说,请以表中值的 80% 为基准。

Theoretical rigidity of preload ball nut under an axial load is shown in each dimension table when a preload equivalent to 10% of the basic dynamic load rating applied. The criterion for calculation of nut rigidity is 80% of the value listed in the table taking into consideration of deformation of the ballnut, etc.

预压负荷不等于基本额定动负荷 (Ca) 的 10% 时,其刚性值由 (10) 式求出。 Rigidity is obtained by the following formula when preload is not 10% of (Ca).

$$K_N = K(\frac{Fa_0}{0.1Ca})^{\frac{1}{3}}X0.8$$
 (10)

Kn: 螺母的轴向刚性 Axial rigidity of the ball nut (N/µm)

K: 尺寸表中的刚性值 Rigidity value in dimension tables (N/µm)

Fao: 轴向负荷 Axial load (N)

Ca: 基本额定动负荷 Basic dynamic load rating (N)

3. 支撑轴承的轴向刚性 Axial rigidity of support bearing

滚珠丝杆支撑轴承的刚性,根据所使用轴承的不同会有差异。 具有代表性的角接触球轴承刚性的计算,如(11)式所示。 $K_B \rightleftharpoons \frac{3Fa_o}{\delta a_o}$ (11)

KB: 支撑轴承的轴向刚性 Axial Rigidity Of Support Bearing (N/µm)

Fa0: 轴向负荷 Preload Of Bearings (N)

δa0: 轴向位移量 Axial elastic deformation by preload (N/μm)

$$Sa_0 = \frac{0.45}{\sin \alpha} (\frac{Q^2}{Da})^{\frac{1}{3}}$$

$$Q = \frac{Fa_0}{Z\sin\alpha}$$

Q: 轴向负荷 Axial load (N)

Da: 支撑轴承的球径 Ball diameter (mm)

a: 支撑轴承的初期接触角 (度) Contact angle (degree)

Z: 滚珠数 Number of balls

六. 滚珠丝杆副精度 Ball Screw Assembly Accuracy

1. 导程精度 Lead Accuracy

威远精密滚珠丝杆副的导程精度,以 ISO 3408-4 为基准,根据使用范围及要求将滚珠丝杆副分为定位滚珠丝杆副(P)、传动滚珠丝杆副(T),精度分别为 1、2、3、4、5、7、10 共 7 个等级,1 级精度最高,依次逐渐降低。

Weiyuan precision ball screw assembly accuracy is based on ISO3408-4, divided into 1, 2, 3, 4, 5, 7,10, seven levels. Level 1 has the highest accuracy, successively in reduce sor.

任意 300mm 行程内和 2π 弧度行程内的行程变动量(见表 1) Lead error in any stroke of 300mm and 2π (table1)

table 1								40.0	Ø (Unit)
序号 Item	微触内容 Inspection content	符号 Mark	i.	2	3	4	6	7	10
1	任意 300mm 行程内变动量 In any 300mm stroke	V _{300p}	6	В	12	16	23	52	210
2	2π 弧度内行程变动量(本项仅 使用于 P 类滚珠丝杆副) In 2π stroke	V _{pru}	4	5	6	7	88	36	-



2. 有效行程内的目标行程公差 (ep) 和行程变动量 (Vup) (见表 2)

Tolerance on specified travel (ep) and travel variation of positioning (Vup) (table2)

表 table 2		原位 (Unit)ourn

		ep Vup		2		3		4			
	ер	Vup	ер	Vup	ер	Vup	ер	Vup	ер	Vup	
≤ 315	6	6	8	8	12	12	16	16	23	23	
> 315-400	7:	6	9	9	13	12	18	18	25	25	
> 400-500	8	7	10	9	15	13	20	19	27	26	
> 500-630	9	7	-11	10	16	14	22	20	32	29	
> 630-800	10	8	13	11	18	16	25	22	36	31	
> 800-1000	11	9	15	12	21	17	29	24	40	34	
> 1000-1250	13	10	18	14	24	19	34	27	47	39	
> 1250-1600	15	111	21	16	29	22	40	31	55	44	
> 1600-2000	18	13	25	18	35	25	48	36	65	51	
> 2000-2500	22	15	30	21	41	29	57	41	78	59	
> 2500-3150	26	17	36	24	50	34	69	49	96	69	
> 3150-4000	32	21	45	29	62	41	86	58	115	82	
> 4000-5000	*	.5	7.	15	76	49	110	70	140	50	
> 5000-6300	29	14	25	2	2	12	¥.	549	170	119	

注 Note:

① Lu 有效行程 Effective Stroke Lu=L1-2Le

Lu 有效行程 Effective Stroke,mm

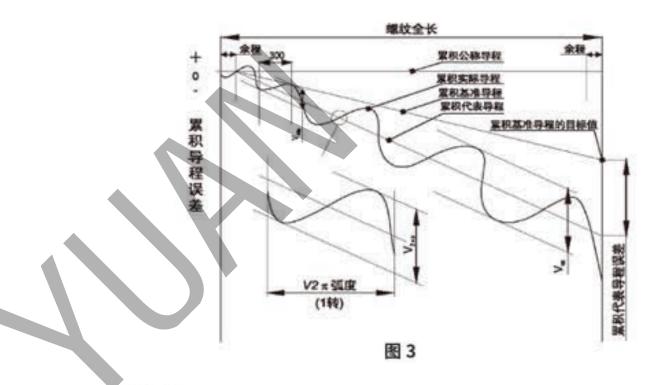
L1 丝杆螺纹全长 Overall Length Of Thread, mm

Le 余程 Excess Travel, mm

② T 类滚珠丝杆副的有效行程 Lu 内行程变动量(见公式 12)

Tolerance on specified travel of the transportation T type ball screw is calculated as formula 12

3. 导程精度图示说明(图 3) Lead Accuracy Chart



4. 轴向间隙 Axial Play

丝杆副可根据客户要求做到有预紧或有间隙,最大间隙如下表:

Preload or axial play of ball screw assembly can be made according to customer equirement, the maximum axial play is shown below in the table:

		ie	т

-	an c		1 300	toomi
		-		

	The thirty and
世杆公称轴外径 Nominal diameter	轴向附頭(最大) Axial play
6-12	0.05
14-28	0.1
30-32	0.14
3645	0.17
50	0.2

表 3 滚珠丝杆副的轴向间隙

Table3 Axial Play Of Ball Screw Assembly



ALCOHOLD ALCOHOLD

and X details

5. 滚珠丝杆安装部位精度及测试方法 Mounting accuracy and tolerance of ball screws

安装部位精度 Mounting accuracy of ball screw

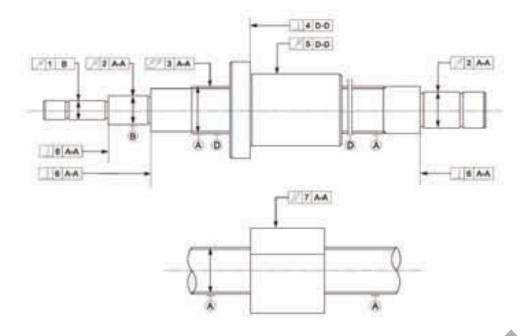
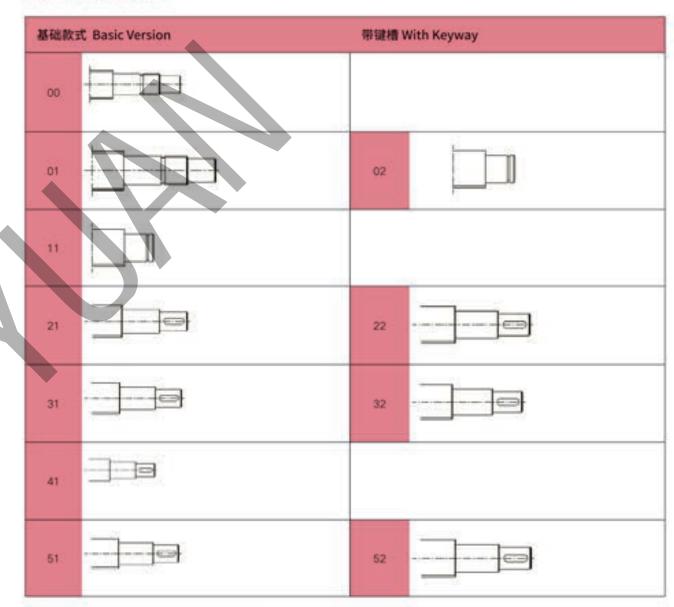


图 4 滚珠丝杆安装部位的精度 Table 4 ball screw assembly mounting place accuracy

检测方法及具体要求参照 GB/T17587.3-1998

推荐轴端 Screw End Recommended

丝杆端部,左或右轴端形状 Screw Shaft Shape



- 1) 以上仅适用于 do 8 至 50 滚压丝杆。
- 1) The forms above apply to rolled screws of diameter from 8mm to 50mm.
- 2) 可以根据客户提供的图纸制作。
- 2) Customer's design is also available.



WEIYUAN



BALL SCREW SYSTEM

询问与订货 Inquiries and Orders PRP- 滚珠丝杆副订货编码 Ball Screw Assembly Ordering Code

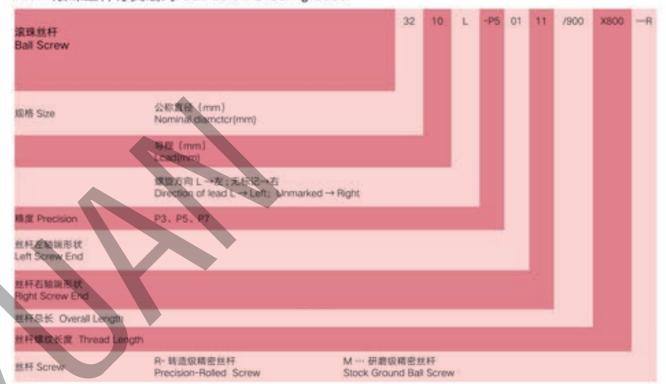


Precision-rolled Screw



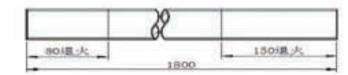
Stock Ground Ball Screw

PRP- 滚珠丝杆订货编码 Ball Screw Ordering Code



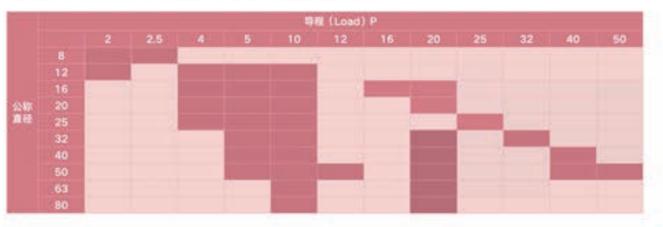
单独订购丝杆,仅需退火丝杆轴端 Special Cases With Annealed Ends

- 1) 关于带退火端部的精密滚压丝杆的特殊要求,请致电我司。
- 2) 丝杆两端部退火长度根据客户要求。
- 3) 可以根据客户提供的图纸制作



滚珠丝杆副基本公称直径与导程

Ball Screw Assemblies Basic Nominal Diameter and Lead

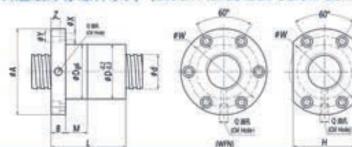


型号 (TYPE): WFI



转造级库存螺杆系列 (Stock Rollde Ball Screw Series)

WEIYUAN



I: 导程 Lead; Da: 珠径 Ball Dia.; n: 珠圈数 Number of Circuits

Ca: 动额定负荷 Basic Dynamic Rating Load (Kgf)

	COL WITH ALTO DOS	oc Dynamic	No. of Septe	and room	1 (mg/)													
3	Coa: 静额定负荷 B	asic Static	Ratir	ng Load	(Kgf)												単位 (Unit):mm
H	世号						- 18	田拉	F, 98	10 基金	BM D	imens	aons					
	Model No.			Da	D	A		M	L	W	H	×		Z	0		Ca	Coa
1	WFI0802-3	7.5	2	1.588	16	32	В	10	25	23	22	3.5	6	3.5	M4	3	218	266
	WFI0802.5-3	7.5	2.5	1,588	16	32	В	10	25	23	22	3.5	6	3.5	M4	3	218	266
	WFI1003-3	9.5	3	1,588	20	38	8	8	28	28	22	3.5	6	3.5	M4	3	233	313
	WFI1202-3	11.5	2	1.588	20	44	В	10	30	32	30	4.5	8	4.5	M4	3	284	444
	WFI1204-4	11.4	4	2	22	44	10	12	40	32	30	4.5	8	4.5	M6	4	475	703
	WFI1205-4	11.4	5	2	22	44	10	12	40	32	30	4.5	8	4.5	M6	4	493	744
	WFI1210-2	11.4	10	2	22	44	10	12	30	32	30	4.5	8	4.5	M6	2	263	363
	WFI1604-4	15.3	4	2.381	30	49	10	12	45	39	34	4.5	8	4.5	M6	4	719	1195
	WFI1605-4	15	5	3	30	49	10	12	50	39	34	4.5	8	4.5	M6	4	917	1372
	WFI1610-3	15	10	3	34	58	10	12	57	45	34	5.5	9.5	5.5	M6	3	735	1086
	WFI1616-2	15	16	3	30	49	10	12	40	39	34	5.5	9.5	5.5	M6	2	500	704
	WFI2004-4	19.5	4	2.381	34	57	11	13	46	45	40	5.5	9.5	5.5	M6	4	824	1596
	WFI2005-4	19	5	3	34	57	11	13	51	45	40	5.5	9.5	5.5	M6	4	1092	1896
	WFI2010-3	19.35	10	3.175	36	60	11	12	54	46	42	5,5	9,5	5.5	M6	8	908	1490
	WFI2020-2	19.4	20	3.5	36	60	11.	12	40	46	42	5.5	9.5	5.5	M6	2	711	1094
	WFI2504-4	24.3	4	2.381	40	63	11	15	46	51	46	5.5	9.5	5.5	M6	4	909	1998
	WFI2505-4	24	5	3	40	63	11	15	51	51	46	5.5	9.5	5.5	M6	4	1224	2429
	WFI2510-4	24.5	10	3,969	46	72	12	15	85	58	52	6.5	17	6,5	M6	4	1743	31,23
	WFI2525-2	24.1	25	3.5	42	70	12	15	47	55	50	6.5	11	6.5	M6	2	790	1369
	WFI3205-4	31.6	5	3.5	46	72	12	15	52	58	52	6.5	11	6.5	M9X1	4	1708	3742
	WFI3210-4	32	10	3.969	54	88	15	20	90	70	62	9	14	8.5	MEXT	4	2100	4480
	WFI3220-4	31	20	3.969	52	87	15	20	90	67	-56	9	14	8.5	MBX1	4	1939	3998
	WFI3232-2	31	32	3,969	52	87	15	20	58	67	56	9	14	8.5	MBXT	2	1058	2026
	WF14005-4	39.58	5	3.5	-56	90	15	20	55	72	64	9	14	85	M8X1	4	1889	4756
	WFI4010-4	39.51	10	7,144	62	104	18	25	93	82	70	1	18	11	M8X1	4	4742	8972
	WFI4020-3	38	20.	6	64	106	18	25	90	81	72	11.	18	11	MBX1	3.	2933	5639
Т	WFI4040-2	40	40	6.35	68	110	18	25	70	85	75	11	18	11	M8X1	2	2204	4072
	WFI5005-5	49	- 5	3.5	68	110	18	25	52	85	75	11	18	17	M8X1	5	2494	7396
Т	WFI5010-4	49.31	10	7.144	72	114	18	25	93	92	82	11	18	11	M8X1	4	5325	11389
	WFI5020-3	48.15	20	6.35	77	119	18	25	93	94	82	11	18	11	M8X1	3	3596	7755
	WFI5040-2	48	40	6.5	77	119	18	25	71	94	82	11	18	11	M8X1	2	2505	5054
	WFI6310-4	62.55	10	7.144	85	131	22	30	98	107	95	14	20	13	M8X1	4	6056	14995
	WFI6320-4	62.55	20	9.525	95	146	22	30	149	116	100	14	20	13	M8X1	4	8659	19144
	WFI8010-4	80	10	7.144	105	150	22	30	98	127	115	14	20	13	M8X1	4	6716	19224
	WFI8020-4	80	20	9.525	125	170	22	30	160	145	130	14	20	13	M8X1	4	12400	44910
																-		

备注: 有标注★记号者可制作左旋螺纹 Note: With sign ★ can produce left helix



型号 (TYPE): WFU

转造级库存螺杆系列(Stock Rollde Ball Screw Series)



上导程 Lead; Da: 珠径 Ball Dia: 四联制数 Number of Circuits

Ca: 动脉泛色剂 Basic Dynamic Rating Load (Kof)

Coa: MAIA SAID Basic Static Rating Load (Kgr)

单位 (Unit):mm

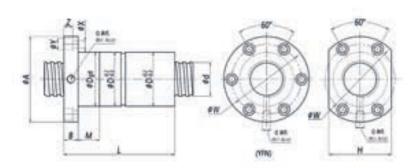
	0.00						255		40 550	15 m D	imens	ons				
	Model No.	0		Da	D	A	8	м	L	W	×	H	0	n	Ca	Coa
	WFI\0802-3	7.5	2	1.588	16	31	8	10	25	23	3.4	25	M4	3	218	266
	WFL0802.5-3	7.5	2.5	1.588	16	31	8:	10	25	23	3,4	25	M4	3	218	266
	WFU1202-3	11.5	2	1.588	20	40	8	10	30	32	4.5	30	M4	3	284	444
	WFU1204-4	11.4	4	2	24	40	10	12	40	32	4.5	30	M6-	4	475	703
	WFU1205-4	11,4	5	2	24	40	10	12	40	32	4.5	35	M6	4	493	744
*	WFU1210-2	11.4	10	2	24	40	10	12	30	32	4.5	35	MG	2	263	363
	WFU1604-4	75.3	4	2.381	28	48	10	12	40	38	5.5	40	M6	4	719	1195
*	WFU1605-4	15	5	3	28	48	10	12	50	38	5.5	40	M6	4	917	1372
	WFU1610-3	15	10	3	28	48	10	12	50	38	5.5	40	M6	3	735	1086
*	WFU1616-2	15	16	3	30	50	10	12	32	38	5.5	39	M6	2	500	704
	WFU2004-4	19.5	4	2.381	36	58	10	12	42	47	6.6	44	M6	4	824	1596
	WFU2005-4	19	5	3	36	58	10	12	- 51	47	6.6	44	M6	4	1092	1896
	WFU2010-3	19.35	10	3.175	36	57	10	12	54	46	6,6	48	M6	3	908	1490
	WFU2020-2	19.4	20	3.5	36	57	10	12	40	46	6.6	48	M6	2	711	1094
	WFU2504-4	24.3	4	2.381	40	62	10	12	42	51	6.6	48	M6	4	909	1998
*	WFU2505-4	24	5	3	40	62	10	12	51	51	6.6	48	M6	4	1224	2429
	WFU2510-4	24.5	10	3.969	40	62	12	15	85	51	6.6	48	M6	4	1743	3123
	WFU2525-2	24.1	25	3.5	42	68	12	15	47	55	6.6	57	M6	2	790	1369
*	WFU3205-4	31.6	5	3.5	50	80	12	15	52	65	9	62	M6	4	1708	3742
	WFU3210-4	32	10	3.969	50	80	12	15	90	65	9	62	M6	4	2100	4480
	WFU3220-4	31	20	3.969	52	83	12	15	90	67	9	69	M6	4	1939	3998
	WFU3232-2	31	32	3.969	52	83	12	15	-58	67	9	69	M6	2	1058	2026
	WFU4005-4	39.58	5	3.5	63	93	14	20	55	78	9	70	M8X1	4	1889	4756
*	WFU4010-4	39.51	10	7,144	63	93	14	20	93	78	9	70	M8XT	4	4742	8972
	WFU4020-3	38	20	- 6	64	100	14	20	- 90	81	9	83	M8X1	3	2933	5639
	WFU4040-2	40	40	6.35	68	105	14	20	70	85	9	87	M8XT	2	2204	4072
	WFU5005-5	49	5	3.5	68	107	16	25	52	85	11	92	M8X1	5	2494	7396
	WFU5010-4	49.31	10	7.144	75	110	16	25	93	93	11	85	M8X1	4	5325	11389
	WFU5020-3	48.15	20	6.35	75	110	16	25	93	93	1.1	85	M8X1	3	3596	7755
	WFU5040-2	48	40	6.5	77	117	18	25	71	94	11	98	M8X1	2	2505	5054
	WFU6310-4	62.55	10	7.144	90	125	18	25	98	108	11	95	M8X1:	4	6056	14996
	WFU6320-4	62.55	20	9.525	95	135	20	30	149	115	13	100	M8X1	4	8659	1914
	WFU8010-4	80	10	7,144	105	145	20	30	98	125	13	110	M8X1	4	6716	1922
	WFU8020-4	80	20	9.525	125	165	25	30	154	145	13	130	M8XT	4	12400	44910

备注: 有标注★记号者可制作左旋螺纹 Note: With sign ★ can produce left helix



型号 (TYPE): YFI

转造级库存螺杆系列(Stock Rollde Ball Screw Series)



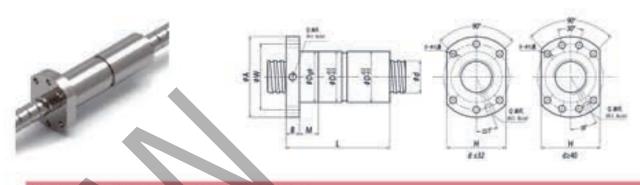
t 导程 Lead; Da: 珠径 Ball Dia.; n: 珠圈数 Number of Circuits Ca: 动额定负荷 Basic Dynamic Rating Load (Kgf)

	Coa: 静模定负荷	Basic St	atic F	Rating Lo	ad (K	Qf)		2/64	and the last			-2-0	Character .	1977			.W102 1	Unit):mm
- 1	24							報	HILL.	100	8 4 8	据 Din	nemsi	ons				
1	Model No.			Da	D	A		M	L	w	H	*		2			Ca	Coa
1	YFI1604-4	15.3	4	2.381	30	49	10	12	80	39	34	4.5	8	4.5	M6	4	719	1195
*	YFI1605-4	15	5	3	30	49	10	12	100	39	34	4.5	8	4.5	M6	4	917	1372
	YFI2004-4	19.5	4	2.381	34	57	11	15	80	45	40	5.5	9.5	5.5	M6	4	824	1596
	YFI2005-4	19	5	3	34	57	11	15	101	45	40	5.5	9.5	5.5	M6	4	1092	1896
	YFI2010-3	19.35	10	3.175	36	60	11	15	98	46	.42	5.5	9.5	5.5	M6	3	908	1490
	YFI2504-4	24.3	4	2.381	40	63	11	15	80	51	46	5.5	9.5	5.5	M6	4	909	1998
*	YFI2505-4	24	5	- 3	40	63	11	15	101	51	46	5.5	9.5	5.5	M6	4	1224	2429
	YFI2510-4	24.5	10	3.969	46	72	12	15	145	58	52	6.5	11	6.5	M6	4	1743	3123
*	YFI3205-4	31.6	5	3.5	46	72	12	15	102	58	52	6.5	11	6.5	M8X1	4	1708	3742
	YFI3210-4	32	10	3.969	54	88	15	20	162	70	62	9	14	8.5	M8X1	4	2100	4480
_[YFI3220-4	31	20	3.969	52	87	15	20	145	67	56	9	14	8.5	M8X1	4	1939	3998
	YFI4005-4	39.58	5	3.5	56	90	15	20	105	72	64	9	14	8.5	M8X1	4	1889	4756
*	YFI4010-4	39.51	10	7.144	62	104	18	25	165	82	70	10.5	18	11	M8X1	4	4742	8972
	YFI4020-3	38	20	6	64	106	18	25	195	82	72	10,5	18	31	MBXT	3	2933	5639
	YFI5005-5	49	5	3.5	68	110	18	25	120	85	75	10.5	18	11	M8X1	5	2494	7396
	YFI5010-4	49.31	10	7.144	72	114	18	25	171	92	82	10.5	18	11	M8X1	4	5325	11389
	YFI5020-3	48.15	20	6.35	77.	119	18	25	200	94	82	10.5	.18	11	M8X1	3	3596	7755
	YFI5040-2	48	40	6.5	77	119	18	25	156	94	82	10.5	18	31	M8X1	2	2505	5054
-1	YFI6310-4	62.55	10	7.144	85	131	22	30	182	107	95	14	20	13	M8X1	4	6056	14995
	YFI6320-4	62.55	20	9.525	95	146	22	30	290	116	100	14	20.	13	M8X1	4.	8659	19144
	YFI8010-4	80	10	7.144	105	150	22	30	182	127	115	14	20	13	MEXT	4	6716	19224
	YF18020-4	80	20	9.525	125	170	22	30	295	145	130	14	20	13	ACREA	4	12400	44910

备注: 有标注 ★记号者可制作左旋螺纹 Note: With sign ★ can produce left helix

型号 (TYPE): YFU

转造级库存螺杆系列(Stock Rollde Ball Screw Series)



0.00						激技	推杆,	462	***	Dimen	sions				
Model No.	4		Da	D	A		м	-	w	*	н	0		Ca	Coa
YFU1604-4	15.3	4	2.381	28	48	10	12	80	38	5.5	40	M6	4	719	1195
YFU1605-4	15	5	3	28	48	10	12	100	38	5.5	40	M6	4	917	1372
YFU2004-4	19.5	4	2.381	36	58	10	12	80	47	6,6	44	M6	4	824	1596
YFU2005-4	19	5	3	36	58	10	12	101	47	6.6	44	M6	4	1092	1896
YFU2010-3	19.35	10	3.175	36	57	10	12	98	46	6.6	48	M6	3	908	1490
YFU2504-4	24.3	4	2.381	40	62	10	12	80	51	6.6	48	M6	4	909	1998
YFU2505-4	24	5	3	40	62	10	12	101	51	6.6	48	M6	4	1224	2429
WFU2510-3	24.5	10	3.969	40	62	12	15	145	51	6.6	48	M6	3	1361	2342
YFU3205-4	31.6	5	3.5	50	80	12	15	102	65	9	62	M6	4	1708	3742
YFU3210-4	32	10	3.969	50	80	12	15	162	65	9	62	M6	4	2100	4480
YFU3220-4	31	20	3.969	52	83	14	20	145	67	9	69	M8X1	4	1939	3998
YFU4005-4	39.58	.5	3.5	63	93	14	20	105	78	9	70	M8X1	4	1889	4756
YFU4010-4	39.51	10	7,144	63	93	14	20	165	78	9	70	M8X1	4	4742	8972
YFU4020-3	38	20	6	: 64	100	14	20	195	81	9	83	M8X1	3	2933	5639
YFU5005-5	49	5	3.5	68	107	16	25	120	85	11	85	M8X1	.5	2494	7396
YFU5010-4	49.31	10	7.144	75	110	16	25	171	93	11	85	M8X1	4	5325	11389
YFU5020-3	48.15	20	6.35	75	110	16	25	200	93	11	85	M8X1	3	3596	7755
YFU5040-2	48	40	6.5	77	117	18	25	156	94	11	98	M8XT	2	2505	5054
YFU6310-4	62.55	10	7.144	90	125	18	25	182	108	-11	95	M8X1	4	6056	14995
YFU6320-4	62.55	20	9.525	95	135	20	30	290	115	13	100	M8X1	4	8659	19144
YFU8010-4	80	10	7.144	105	145	20	30	182	125	13	110	M8X1	4	6716	19224
YFU8020-4	80	20	9.525	125	165	25	35	295	145	13	130	M8X1	4	12400	44910

备注:有标注★记号者可制作左旋螺纹 Note: With sign ★ can produce left helix





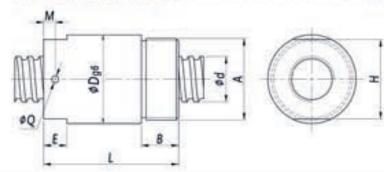




型号 (TYPE): WCG

BALL SCREW SYSTEM

转造级库存螺杆系列 (Stock Rollde Ball Screw Series)



I: 导程 Lead; Da: 珠径 Ball Dia.; n: 疎墨数 Number of Circuits Ca: 动额定负荷 Basic Dynamic Rating Load (Kgf) Coa: 静模定负荷 Basic Static Rating Load (Kgf)

	COB: IPRIZEDOR	Basic S	tanc i	Hating Lo	ad (kg	7								452.1	Unitjamm
	型号 Model No.					-81	章纹杆。	銀母基准	数据 Din	nension					
	at a model reg			Da	0		В		E	н	M	0		Ca	Coa
	WCG082,5-3	7.5	2.5	1.588	17.5	M15X1	7.5	23.5	5	15	5	3	3	218	266
	WCG1202-3	11.5	2	1.588	25	M20X1	10	34	6	22	.5	3	3	284	444
	WCG1204-3	11.4	4	2	25.5	M20X1	10	34	-6	22	5	3	.3	371	527
*	WCG1205-3	11.4	5	2	25.5	M20X1	10	39	6	22	5	3	3	385	558
	WCG1210-2	11.4	10	2	25.5	M20X1	10	32	6	22	5	3	2	263	363
*	WCG1604-3	15.3	4	2.381.	29	M22X1.5	8	32	6	25	.5	3	-3	561	896
	WCG1605-3	15	5.	3	32.5	M26X1.5	12	42	- 6	28	.5	3	3	716	1029
*	WCG1610-3	15	10	3	32	M26X1.5	12	50	6	28	5	3	3	735	1086
	WCG1616-2	15	16	3	32	M26X1.5	12	40	6	28	5	3	2	500	704
	WCG2004-3	19.5	4	2.381	38	M35X1.5	15	43	8	34	6	4	3	644	1197
	WCG2005-3	19	5	3	38	M35X1.5	15	45	- 8	34	6	.4	3	852	1422
	WCG2010-3	19.35	10	3,175	45	M40X1,5	17	62	8	40	6	4	3	908	1490
	WCG2020-2	19.4	20	3.5	45	M40X1.5	17	47	8	40	6	4	2	711	1094
*	WCG2504-4	24.3	4	2.381	43	M40X1.5	19	55	.8	38	6	.4	4	909	1998
	WCG2505-4	24	5	3	43	M40X1.5	19	69	8	38	6	4	4	1224	2429
	WCG2510-3	24.5	10	3.969	43	M40X1.5	19	84	8	38	6	_4	3	1361	2342
*	WCG2525-2	24.1	25	3.5	50	M45X1.5	20	50	8	45	6	4	2	790	1369
	WCG3205-4	31.6	5	3.5	55	M50X1.5	23	63	10	51	8	-4	-4	1708	3742
	WCG3210-3	31.6	10	3.969	60	M55X1.5	25	88	10	55	6	4	.3	1641	3360
	WCG3220-4	31	20	3.969	62	M56X1.5	25	95	10	86	6	4	4	1939	3998
	WCG3232-2	31	32	3.969	62	M56X1.5	25	60	10	56	6	-4	2	1058	2026
*	WCG4005-5	39.58	5	3.5	65	M60X2	27	55	10	60	7	5	5	2289	5945
	WCG4010-3	39.51	10	7.144	68	M65X2	30	95	10	63	X	5	3	3703	6729
	WCG4020-3	38	20	6	75	M70X2	30	95	10	63	Y	5	3	2933	5639
	WCG4040-2	40	40	6.35	75	M70X2	30	80	10	69	X	5	2	2204	4072
	WCG5005-5	49	5	3.5	75	M70X2	30	65	13	69	17	5	-5	2494	7396
	WCG5010-4	49.31	10	7.144	78	M72X2	30	103	13	70	7	5	-4	5325	11389
	WCG5020-3	48.15	20	6.35	85	M80X2	30	105	13	80	7	-5	3	3596	7755
	WCG5040-2	48	40	6.5	85	M80X2	30	80	13	80	7	5	2	2505	5054
	WCG6310-4	62.55	10	7.144	90	M85X2	30	118	13	84	8	6	4	6056	14995
	WCG6320-3	62.55	20	9.525	100	M95X2	35	105	13	95	8	6	3	6761	14359
	WCG8010-4	80	10	7.144	120	M110X2	35	120	15	112	8	6	4	6716	19224
	WCG8020-4	80	20	9.525	135	M130X2	40	175	15	126	8	6	4	12400	44910

②小于 1605 型号,不带防尘圈

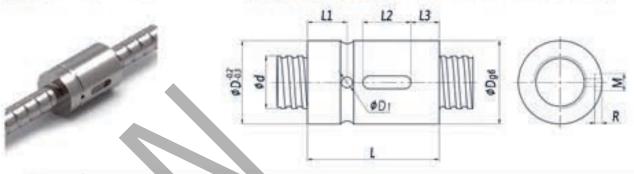
备注: ①有标注 ★记号者可制作左旋螺纹 Note: ① With sign ★ can produce left helix

② Model No. < 1605 without dust ring</p>

型号 (TYPE): WCI

WEIYUAN

转造级库存螺杆系列 (Stock Rollde Ball Screw Series)



I: 导程 Lead Dat 装径 Ball Dia_n: 装置数 Number of Circuits

Ca: 卧板定位初 Basic Dynamic Rasing Load (Kgf) Coa: 卧板定位形 Basic Staffe Rating Load (Kgf)

单位 (Unit):mm

	Cost species and	Desc	SHIIIUN, 1	taling co.	Ma friend		R 18 15 F	E es m	35 10 80 1	M Dime	and a look				witz (Onio)
	Model No.	V	4		D		NAME OF TAXABLE PARTY.	1.2	LS	D1	м	R		Ca	Coa
		7.0	-	2.500	-	Street, said on the	STATE OF TAXABLE PARTY.	Charles S.	and the best beautiful to	ALC: UNKNOWN BOOK			0		
	WC10802.5-8	7.5	2	1.588	16	22	4	8	5	2	3	1.5	3	218	266
		.7.5	2.5	1.588	16	17	5	6	4		3	1.5	3	218	266
	WCI1202-3	11.5	2	1.588	20	25	6	10	4.5	2.5	3	1,5	3	284	444
ı	WCI1204-4	11.4	4	2	22	35	6	15	10	2.5	3	1.5	4	475	703
	WC11205-4	71.4	5	2	22	35	6	15	10	2.5	3	1.5	4	493	744
	WS[1210-2	11.4	10	2	22	25	6	10	5	2.5	3	1.5	2	263	363
Ļ	WCI1604-4	15.3	4	2.381	30	40	9	15	10	3	3	1.5	4	719	1195
į	WCI1605-4	15	5	3	30	45	9	20	10	3	5	3	4	917	1372
L	WCI1610-3	15	10	3	30	45	10	18	10	3	5	3	3	735	1086
ą	WCI1616-2	15	16	3	30	32	7	15	5	3	5	3	2	500	704
	WCI2004-4	19.5	4	2.381	34	40	9	15	10	3	3	1.5	4	824	1596
ļ	WCI2005~4	19	5	3	34	45	9	20.	10	3,5	5	3	4	1092	1896
	WCI2010-3	19.35	10	3.175	36	52	9	20	10	3.5	-5	3	3	908	1490
ļ	WCI2020-2	19.4	20	3.5	37	41	9	20	6	3,5	5	3	2	711	1094
L	WCI2504-4	24.3	- 4	2.381	40	40	9	15	10	3.5	3	1.5	4	909	1998
	WCI2505-4	24	5	3	40	45	9	20	10	3.5	5	3	4	1224	2429
	WCI2510-4	24.5	10	3.969	46	85	13	30	25	3.5	5	3	4	1743	3123
	WCI2525-2	24.1	25	3.5	42	.47	9	20	10	3.5	5	3	2	790	1369
	WCI3205-4	31.6	5	3.5	46	45	9	20	10	4	5	3	4	1708	3742
١	WCI3210-4	31.6	10	3.969	- 54	85	13	30	25	4	5	3	4	2100	4480
ľ	WCl3220-4	31	20	3.969	55	70	10	30	10	4	5	3	4	1939	3998
Ì	WCI3232-2	31	32	3.969	50	58	10	30	10	4	5	3	2	1058	2026
ľ	WCI4005-4	39.58	5	3.5	56	45	9	20	10	4	5	3	4.	1889	4756
	WCI4010-4	39.51	10	7.144	62	85	13	30	25	4	5	3	4	4742	8972
ľ	WCI4020-3	38	20	6	65	90	12	30	10	4	5	3	3	2933	5639
	WCI4040-2	40	40	6.35	68	70	12	30	10	4	5	3	2	2204	4072
	WCI5005-5	49	5	3.5	68	60	12	25	10	4	5	3	5	2494	7396
	WCI5010-4	49.31	10	7.144	72	85	13	30	25	4	5	3	4	5325	11389
	WCI5020-3	48.15	20	6.35	78	91	13	30	10	4	6	3.5	3	3596	7755
	WCI5040-2	48	40	6.5	76	71-	13	30.	10	4	6	3.5	2	2505	5054
ſ	WCI6310-4	62.55	10	7.144	85	85	13	30	25	4	6	3.5	4	6056	14995
١	WCI6320-4	62.55	20	9.525	95	96	15	30	10	4	6	3.5	4	8659	19144
ľ	WCI8010-4	80	10	7.144	105	85	13	30	25	6	8	4.5	4	6716	19224
ľ	WCI8020-4	80	20	9.525	125	155	20	40	10	6	8	4.5	4	12400	44910

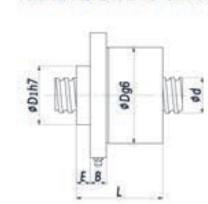
备注:有标注★记号者可制作左旋螺纹 Note: With sign ★ can produce left helix

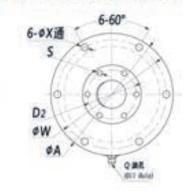




型式 (TYPE): WCJ

转造级库存螺杆系列(Stock Rollde Ball Screw Series)





士导程 Lead; Dac 珠径 Ball Dia.; n: 珠圈数 Number of Circuits Ca: 动额定负荷 Basic Dynamic Rating Load (Kgf)

Coa: 静额定负荷 Basic Static Rating Load (Kgf)

學位 (Unit):mm

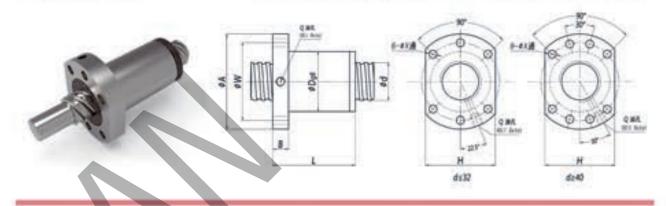
WEIYUAN

								康	医丝杆	7.00	之基制	te:W	Dime	nsions				
	항목 Model No.	Ca	Coa	D	D1	D2	w							Q		触承代号 Bearing Symbol	總兼 Bearing Ca	earing Cost
t	WCJ1605-3	716	1029	70	38	30	80	6.6	90	70	5	13	M5	M6X1	3	7006AC/DB	2300	19802
	WCJ1610-3	735	1086	80	45	34	95	6.6	108	68	5	13	M6	M6X1	3	7007AC/DB	3000	2700
	WCJ2005-3	852	1422	80	45	37	95	6.6	108	68	5	15	M4	M6X1	3	7007AC/DB	3000	2700
	WCJ2010-3	908	1490	88	45	37	97	6.6	110	71	6	14	M6	M6X1	3	7008AC/DB	3080	2900
	WCJ2020-2	711	1094	88	45	37	97	6.6	110	71	6	14	M6	M6X1	2	7008AC/DB	3080	2900
k	WCJ2505-3	956	1822	93	55	44	105	6.6	120	81	12	15	M6	M6X1	3	7009AC/DB	4180	3900
	WCJ2510-3	1361	2342	93	55	44	105	6,6	118	81	12	15	M6	M6X1	3	7009AC/DB	4180	3900
٠	WCJ3205-3	1708	3742	106	65	55	121	8.5	140	85	10	20	M6	M6X1	3	7011AC/DB	5700	5850
	WCJ3210-3	1641	3360	106	65	55	121	8.5	140	85	10	20	M6	M6X1	3	7011AC/DB	5700	5850
	WCJ3220-4	1939	3998	106	65	55	121	8.5	140	90	15	20	M6:	M6X1	14	7011AC/DB	5700	5850
	WCJ3232-2	1058	2026	106	65	50	121	8.5	140	85	10	20	M6.	M6X1	2	7011AC/DB	5703	5850
۲	WCJ4010-3	3703	6729	118	75	65	131	8.5	148	90	11	20	M6	M8XT	3	7013AC/DB	6150	6750
	WCJ4040-2	2204	4072	118	75	65	131	8.5	148	90	11	20	M6	M8X1	2	7013AC/0B	6150	6750
	WCJ5005-4	1995	5916	130	80	70	150	11	170	101	15	20.	MS	MEXT	4	7014AC/DB	7420	8300
	WCJ5010-3	4260	9110	135	85	70	150	11	170	101	15	20	Ma	M8X1	3	7015AC/DB	7580	8850
	WCJ5020-3	3596	7755	135	85	70	150	11	170	101	15	20	M8	M8X1	3	7015AC/DB	7580	8850
	WCJ5040-2	2505	5054	150	95	80	168	11	190	109	15	20	M8	Maxi	3	7016AC/DB	5000	10500
	WCJ6310-3	4844	11996	165	110	95	180	11	200	116	14.5	25	MIC	M8001	3	7018AC/DB	11000	13200
	WCJ6320-3	6761	14358	172	110	90	190	14	213	116	14.5	20	M10	MEXT	3	7019AC/DB	11200	13800
	WCJ8010-3	5372	15379	190	125	110	210	15	242	140	15	25	MIO	MEXT	c	7021AC/DB	13500	16800

备注:有标注★记号者可制作左旋螺纹 Note: With sign ★ can produce left helix

型号 (TYPE): WFS

转造级库存螺杆系列 (Stock Rollde Ball Screw Series)



Ca: 动脉定角带 Basic Dynamic Rating Load (Kgf) Coa: 静脉距位带 Basic Static Rating Load (Kgf)

单位 (Unit):mm

The Market No.					36	重丝杆。	保護之基	東政策 [Xmensk	ins				
Model No.	d		Da	D	A			w	н	×	Q		Ca	Coa
WFS1820-1.8	15	20	2.778	28	48	10	57	38	40	5.5	M6X1	1.8*1	415	768
WFS2020-1.8	20	20	3.175	36	58	10	57	:47	44	6.6	M6X1	1.8*1	551	1108
WFS2525-1.8	24.1	25	3.5	40	62	12	70	51	48	6.6	M6X1	1.8*1	843	2190
WF83232-1.8	31	32	3.969	50	80	13	90	65	62	9	M6X1	1.8*1	1257	3426
WFS5050-1.8	48	50	6.35	75	110	18	125	93	85	11	M8X1	1.8*1	2111	5491

备注: 有标注★记号者可制作左旋螺纹 Note: With sign ★ can produce left helix

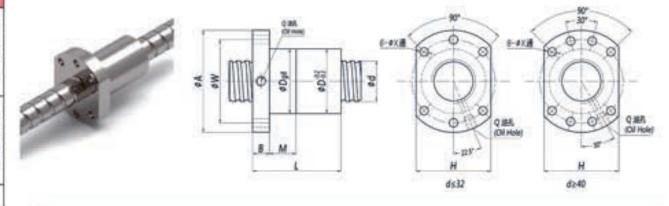




型式 (TYPE): WFU

BALL SCREW SYSTEM

研磨级库存螺杆系列 (Stock Ground Ball Screw Series)



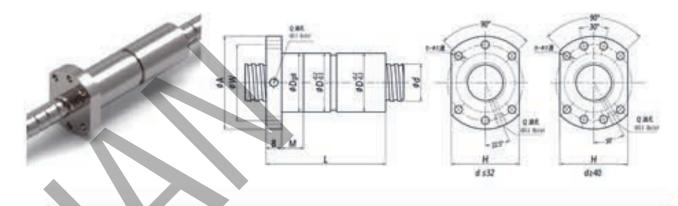
上导程 Lead; Da: 珠径 Ball Dia.; n: 珠墨数 Number of Circuits Ca: 动额定负荷 Basic Dynamic Rating Load (Kgf)

	88						遊技技	样,惟有	35.41 EX	W Dime	nsions					
	Model No.			Da	D	A	8	м		w	х	н	0		Ca	Con
1	WFU1605-4	16	5	3.175	28	48	10	12	50	38	5.5	40	M6X1	4	1015	1539
	WFU2005-4	20	5	3.175	36	58	10	12	51	47	6.6	44	M6X1	4	1168	2012
	WFU2010-3	20	10	3,175	36	58	10	12	53	47	6.6	44	M6X1	3	934	1580
	WFU2505-4	25	5	3.175	40	62	10	12	51	51	6.6	48	M6X1	4	1322	2606
	WFU2510-3	25	10	4.762	42	64	12	15	67	53	6.6	50	M6X1	3	1708	2783
	WFU3205-4	32	5	3.175	50	80	12	15	52	65	9	62	M8X1	4	1495	3439
	WFU3210-4	31	10	3.969	50	80	12	15	70	65	9.	62	M8X1	4	2100	4480
	WFU3210-3	32	10	6.35	53	83	12	15	70	68	.9	85	M8X1	3	2761	4617
	WFU4010-4	40	10	6.35	63	93	14	20	85	78	9	70	M8X1	4	4068	8050
	WFU4020-3	38	20	6.35	65	95	14	20	90	80	9	72	M8X1	3	3047	5624
	WFU5010-4	50	10	6.35	75	110	16	25	93	93	11	85	ZXBM	4	4605	10425

备注:有标注★记号者可制作左旋螺纹 Note: With sign ★ can produce left

型式 (TYPE): YFU

研磨级库存螺杆系列 (Stock Ground Ball Screw Series)



I: 导致 Lead; Da: 珠色 Ball Dia.; n: 珠圈数 Number of Circuits

Ca: 初野 (A) Base D namic Rating Load (Kgf) Coa: 翻載定文本 Basic Static Rating Load (Kgf)

单位 (Unit):mm

	世級						建筑 株	er, me	9 NE 10 NE 1	Dime	msions					
	Model Ho.			Da	D	A	8	M		w	ж	6.H2	a		Ca	Coa
	YFU1605-4	16	5	3.175	28	48	10	12	100	38	5.5	40	M6X1	4	1015	1539
>	YFU2005-4	20	5	3.175	36	58	10	12	101	47	6.6	44	M6X1	4	1168	2012
	YFU2010-3	20	10	3,175	36	58	10	12	117	47	6.6	44	M6X1	3	934	1580
	YFU2505-4	25	5	3.175	40	62	10	12	101	51	6.6	48	M6X1	4	1322	2606
	YFU2510-3	25	10	4.762	42	64	12	15	145	53	6.6	50	M6X1	3	1708	2783
	YFU3205-4	32	5	3.175	50	80	12	15	102	65	9	62	M8X1	4	1495	3439
	YFU3210-4	31	10	3.969	50	80	12	15	162	65	9	62	M8X1	4.	2100	448
	YFU3210-3	32	10	6.35	53	83	12	15	162	68	9	65	M8XT	3	2761	461
	YFU4010-4	40	10	6.35	63	93	14	20	165	78	9	70	M8X1	4	4068	8050
	YFU4020-3	38	20	6.35	65	95	14	20	200	80	9	72	M8X1	3	3047	562
	YFU5010-4	50	10	6.35	75	110	16	25	171	93	11	85	M8X1	4	4605	1042

备注: 有标注★记号者可制作左旋螺纹 Note: With sign ★ can produce left helix

梯形丝杆副基本特点

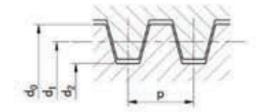
Features of lead screw assembly

一、简述 General Introduction

梯形丝杆副有着比滚珠丝杆副更为长久的使用历史,虽然在许多高精度、高刚性、高速度的直线运动 领域已广泛地被滚珠丝杆副所替代。但由于旋铣及辊轧技术的应用,梯形丝杆副具备更为优越的价格 优势,再加上梯形丝杆副在间隙消除、材料及表面处理技术方面的不断突破,使得梯形丝杆副在医疗 设备、仪器仪表、工业设备、机械自动化、办公设备及其他众多领域仍被广泛应用。

Lead screw assembly has a longer using history than ball screw assembly. Although replaced by ball screw assembly in many linear motion fields of high precision, high rigidity and high speed, lead screw assembly still has an extraordinary price advantage due to application of rotating and rollingtechnology. Because of the improvement of backlash elimination and surface treatment, lead screw assembly has been widely used into medical equipment, instrumentation, industrial equipment, mechanical automation, office equipment, and many other industries.

丝杆牙形图 Screw thread



二、基本术语及参数

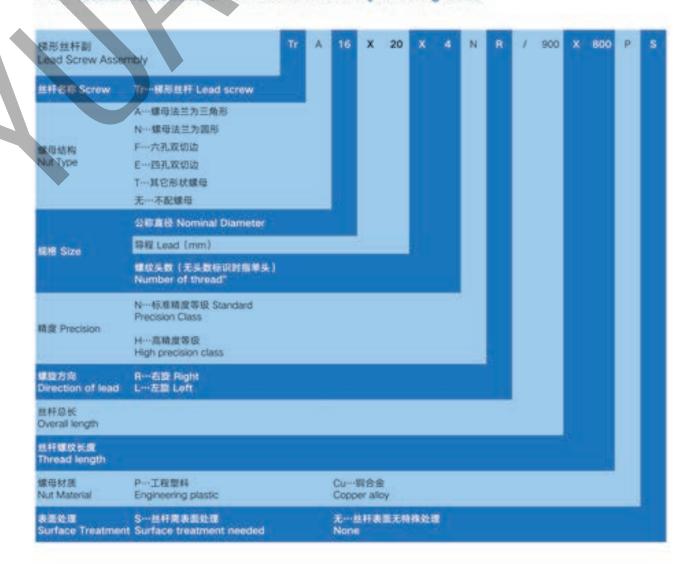
- 公称直径:梯形丝杆的公称直径及丝杆外径。我公司提供公称直径 10~80 的梯形丝杆及公称直径 为8~36 的高速梯形丝杆。
- 导程 l:螺纹上任意一点沿同一条螺旋线旋转一周所移动的轴向距离。对于单头螺纹,螺纹导程等于螺距;对于多头螺纹,螺纹导程等于螺距与螺纹头数的乘积。我公司除提供各种标准导程的梯形丝杆外,还大量供应导程 10 ~ 200 的高速丝杆。
- 螺距 p: 两相邻螺牙在中径线上对应两点间的轴向距离。螺旋等于螺杆导程除以头数。
- 螺旋升角:螺纹中径处,螺旋线的切线与垂直于螺纹轴线的平面间夹角。
- 导程误差:螺杆实际导程与理论导程之间的偏差。螺杆的导程误差直接影响到丝杆副的定位精度,但片面追求螺杆导程精度势必造成加工成本的增加。我公司梯形丝杆标准导程精度为 0.0007mm/mm,如有需要,我公司还可提供更高导程精度的梯形丝杆或精密滚珠丝杆副。

螺杆外径 d_o:螺杆螺纹顶径(公称直径)。 螺杆底径 d_o:螺杆螺纹底部或根部的直径。

螺杆中径 d_i: 是指一假想圆柱面的直径,其母线通过牙型上的沟槽和凸起宽度相等的假想圆柱面的直径。

- 自锁性: 当梯形丝杆螺旋升角小于摩擦角时,丝杆便能实现自锁。螺旋升角 λ=arctan(S/πd2), 摩擦角 ρ'=arctan(f/cos(α/2))。
- 螺纹摩擦力矩:螺母与丝杆之间的摩擦力矩。Mt2=0.5d2Ftan (λ+ρ')。
- 强度校核:根据载荷情况校核丝杆或螺母强度是否满足使用。(具体方法可参照《机械设计手册》 梯形螺旋传动相关章节)
- 间隙:传动装置在正反转运动过程中存在的直线行程偏差。梯形丝杆副不可避免的会在螺杆和螺母之间存在有间隙。我公司有专门设计的螺母结构以减小或消除此种间隙。但在定位精度要求不高或丝杆副垂直受力或单一方向受力时,不需消除间隙,以免额外增加摩擦负载或制造成本。
- 使用环境温度: POM 或其他工程塑料螺母 -40~+60℃,铜螺母 -40~+200℃.

PRP 梯形丝杆副订货编码 Lead Screw Assembly Ordering Code





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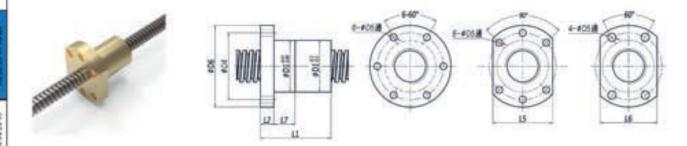
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梯形螺母 Lead Screw Nut



d: 公称直径 Nominal diameter

I: 导程 Lead

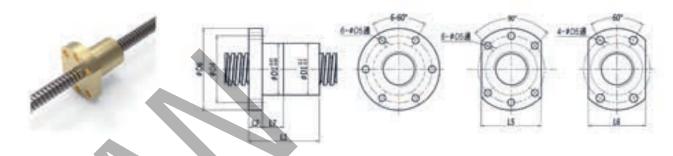
i: 头数 Thread number

既格 Size d×l×i	D1	D4	DS	D6	Lı	12	L5	L6	L7	额定负荷 Rate load kN	規格 Size d×i×i	Di	D4	DS	D6	Lı	L2	L5	L6	L7	額定负荷 Rate load kN
10×2×1	22	32	5.5	42	35	8	33	24	10	1.7	22×24×6	40	51	6.6	62	42	10	52	42	10	5.6
10×3×1	22	32	5.5	42	35	.8	33	24	10	1.6	24×5×1	40	51	6.6	62	42	10	52	42	10	5.
12×3×1	22	32	5,5	42	35	8	33	24	10	2	24×10×2	40	51	6.6	62	42	10	52	42	10	5
12×6×2	22	32	5.5	42	35	8	33	24	10	2	26×5×1	50	65	9	80	55	12	66	52	10	7,1
14×3×1	28	38	5.5	48	42	10	39	30	10	2.8	28×5×1	50	65	9	80	55	12	66	52	10	7.7
14×4×1	28	38	5.5	48	42	10	39	30	10	3.4	30×6×1	50	65	9	80	55	12	66	52	10	8.1
16×2×1	28	38	5.5	48	42	10	39	30	10	3.4	30×12×2	50	65	9	80	55	12	66	52	10	8.1
16×4×1	28	38	5.5	48	42	10	39	30	10	3.2	32×6×1	63	78	9.	98	57	14	79	65	10	9
16×8×2	28	38	5.5	48	42	10	39	30	10	3.2	36×6×1	63	78	9	93	57	14	79	65	10	10
18×4×1	36	47	6.6	58	42	10	48	38	10	3.6	40×7×1	63	78	9	93	57	14	79	65	10	11.4
18×8×2	36	47	6.6	58	42	10	48	38	10	3.6	40×14 ×2	63	78	3	93	57	14	79	65	10	11.4
20×4×1	36	47	6.6	58	42	10	48	38	10	4.1	44×7×1	75	93	54	110	95	16	94	77	16	21.1
20×8×2	36	47	6.6	58	42	10	48	38	10	4.1	48×8×1	75	93	11	110	95	16	94	77	16	22.9
20×16×4	36	47	6.6	58	42	10	48	38	10	4.1	50×8×1	75	93	11	110	95	16	94	77	16	24
20×20×5	36	47	6.6	58	42	10	48	38	10	4.1	60×9×1	90	108	11	125	97	18	109	92	16	29.6
22×5×1	40	51	6.6	62	42	10	52	42	10	4.5	70×10×1	105	125	14	145	101	22	126	107	16	36
22×10×2	40	51	6.6	62	42	10	52	42	10	4.5	80×10×1	105	125	14	145	101	22	126	107	16	41.6

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注:上表中额定负荷系针对铜质螺母;

梯形螺母 Lead Screw Nut



d: 公称直径 Nominal Diameter

I: 导程 Lead

i: 头数Thread number

EN Size	DI	DA	D5	D6	Li	L2	L5	L6	L7	額定负荷 Rate load kN	親植 Size d×l×i	01	D4	06	D6	LI	12	L5	L6	L7	整定负荷 Rate load kN
8×10×2	23.5	32	4.5	42	35	6	33	25	5	0.8	20×12×4	35.5	47	6.5	59	46	12	48	37	10	1.2
10×12×3	23.5	32	4.5	42	35	6	33	25	5	1.2	20×45×5	35.5	47	6.5	59	46	12	48	37	10	2.5
12×15×3	23.5	32	4.5	42	35	6	33	25	5	1.4	21×27×3	35.5	47	6.5	59	46	12	48	37	10	2.2
12×25×5	23,5	32	4.5	42	35	6	33	25	5	1.5	21×35×5	35.5	47	6.5	59	46	12	48	37	10	2.05
10×50×5	25.5	36	5.5	46	35	10	37	27	8	1.25	22×20×4	35.5	47	6.5	59	46	12	48	37	1.0	1.4
11×60×5	25.5	36	5.5	46	35	10	37	27	8	1.5	22×50×5	35.5	47	6.5	59	46	12	48	37	10	2.75
13×20×5	25.5	36	5.5	46	40	10	37	27	8	1.3	23×30×3	35.5	47	6.5	59	46	12	48	37	10	2.4
13×70×5	25.5	36	5.5	46	40	10	37	27	8	1.75	24×40×5	35.5	47	6.5	59	46	12	48	37	10	2.3
14×8×4	25.5	36	5.5	46	42	10	37	27	8	0.9	24×55×5	35.5	47	6.5	59	46	12	48	37	10	3
14×18×3	25.5	36	5.5	46	42	10	37	27	8	1.6	26×16×4	41.5	53	6,5	64	55	12	54	43	10	1.4
14×30×5	25.5	36	5.5	46	42	10	37	27	8	1.75	26×24×4	41,5	53	6.5	64	55	12	54	43	10	2
15×20×4	29.5	39	5.5	49	42	10	40	31	8	1.6	26×60×10	41.5	53	6.5	64	55	12	54	43	10	3.25
15×80×5	29.5	39	5.5	49	42	10	40	31	8	2	27×45×5	41.5	53	6.5	64	55	12	54	43	10	2.55
16×21×3	29.5	39	5.5	49	42	10	40	31	8	1.8	28×65×5	41.5	53	6.5	64	55	12	54	43	10	3.5
16×25×5	29.5	39	5,5	49	42	10	40	31	8	1.55	30×28×4	41.5	53	6,5	64	55	12	54	43	10	2
16×35×5	29,5	39	5,5	49	42	10	40	31	8	2	30×50×5	41.5	53	6.5	64	55	12	54	43	10	2.8
16×90×5	29,5	39	5.5	49	42	10	40	31	8	2.25	30×70×5	41.5	53	6.5	64	70	12	54	43	10	3.75
18×16×2	29.5	39	5.5	49	42	10	40	31	8	1.1	32×20×4	49.5	65	9	80	70	14	66	51	10	2
18×24×3	29.5	39	5.5	49	42	10	40	31	8	2	32×75×5	49.5	65	9	80	70	14	66	51	10	4
18×40×5	29.5	39	5.5	49	42	10	40	31	8	2.25	34×32×4	49.5	65	9	80	70	14	66	51	10	2.3
18×60×3	29.5	39	5,5	49	42	10	40	31	8	2.5	34×80×5	49.5	65	9	80	70	14	66	51	10	4.25
19×30×10	35.5	47	6.5	59	42	12	48	37	10	1,8	36×200×5	49.5	65	9	80	70	14	66	51	10	4.5

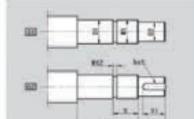
注: 上表中額定负荷系针对铜质螺母;



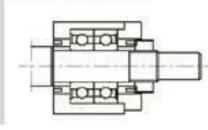
31 -

端部支撑

丝杆轴端形状 Screw End Forms 类型 01-02 Form 01-02



支撑座剖视图 Application



单位 (Unit):mm

WEIYUAN

	1	東珠丝杆规格									聯機	3	螺纹	8刀権		支撑	1000	- 1
美型 Form	Ва	8 Screw Size	L1		D1	L2	D2 h7		м1	- 0	Keywa	iy :	Und	ead ercut ng		nd Supp	ort Blo	ck
	dO									S1	ь р9	t +0.1	w	Φz	FK型	EK型	AK型	ВК型
	6	1	24	4	-0.008 -0.015	5	3	7	M4x0.5		75	100	1	3,3	FK4	EK4	je.	15
	8	2/2.5	24	5	-0.008 -0.015	6	4	7	M5x0.5		25	(4)	1	4.3	FK5	EK5	12	23"
	8	2/2.5	28	6	-0.008 -0.015	8	4	8	M6X0.75	4	+		1.5	5	FK06	EX06:	34	ŧ,
	12	4/5/10	32	8	-0.008 -0.015	9	6	10	M8X1	-	- 64		2	7	FK08	EK08	1	1
	12	4/5/10	36	10	-0.008	15	8	12	M1001	=	*1	-	2	8	FK10	EK10	AK10	BK10
	16	4/5/10/16	36	12	-0.008	15	10	12	M12X1	u.	41	-	2	10	FK12	EK12	AK12	BK12
01	20	4/5/10/20	48	15	-0.008 -0.017	20	12	13	M15X1		8	16.5	2	13	EX15	EK15	ARIS	7.5
	20	4/5/10/20	59	17	-0.008	23	15	17	M17X1	12	20	-	2	18	FK17	20		1
	25	4/5/10/25	64	20	-0.01	25	17	16	M20X1	+	>	-	2	18	FK20	EK20 :	AK20	-
	32	5/10/20/32	76	25	-0.01	30	20	20	M25X1,5		8		3	23	FK25		AK25	
	40	5/10/20/40	73	30	-0.01	38	25	25	M30X1.5	-	-		3	28	FK30	-	-	BK30
	50	5/10/12/20/40	94	40	-0.012 -0.025	50	35	30	M40X1.5	17.		6	23	28	-		15	BK40
	16	4/5/10/16	36	12	-0.008 -0.017	15	10	12	M12X1	12	3	1.8	2	10	STX4	EK12	AK12	BK12
	20	4/5/10/20	48	15	-0.008	20	12	13	M15X1	17	4	2.5	3	13	FK15	EK15	AK15	50
	20	4/5/10/20	59	17	-0.008	23	15	17	M17X1	20	5	3	2	15	FK17	4)		ĵ.
02	25	4/5/10/25	64	20	-0.01	25	17	16	M20X1	21	5	3	2	18	FK20	EK20	AK20	21
	32	5/10/20/32	76	25	-0.01 -0.02	30	20	20	M25X1.5	25	5	3	3	23	FK25	#1	AK25	44
	40	5/10/20/40	73	30	-0.01	38	25	25	M30X1,5	32	8	343	3	28	FK30	22	Ja.	BK30
	50	5/10/12/20/40	94	40	-0.012 -0.025	50	35	30	M40X1.5	45	8	4	3	38	-	-	12	BK40

丝杆轴端形状 Screw End Forms

类型 21、22 Form 21、22



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	1	R							1215		概纹	3.刀様		支撑	東型号	
美型 Form	Ва	Screw Size	Lı		D1	s	M1		Ceywa	ıy	Und	ead ercut ing	Е	nd supp	part blo	:k
	dO	P										Φz	FK型	EK型	AK型	BK S
	6	1	24	4	-0.008 -0.015	7	M4x0.5	-5	0.	23	1	3.3	FK4	EK4	1.	1
	8	2/2.5	24	5	-0.008 -0.015	7	M5x0.5	-	-	-	1	4.3	FK5	EK5	-	1520
	8	2/2.5	28	6	-0.008 -0.015	8	M6X0.75	-	-		1.5	5	FK06	EK06	-	
	12	4/5/10	32	8	-0.008 -0.015	10	M8X1	2	-	47	2	7	FK08	EK08	-	1020
	12	4/5/10	36	10	-0.008 -0.015	12	M10X1	.~	7.	7.5	2	8	FK10	EK10	AK10	BK10
21	16	4/5/10/16	36	12	-0.008 -0.017	12	M12X1	3	21	25	2	10	FK12	EK12	AK12	BK1:
	20	4/5/10/20	48	15	-0.008 -0.017	13	M15X1	-	-	ż	2	13	FK15	EK15	AK15	(*)
	20	4/5/10/20	59	17	-0.008 -0.017	17	M17X1	-	0	2.7	2	15	FK17	1128	2	020
	25	4/5/10/25	64	20	-0.01 -0.02	16	M20X1	0		-1	2	18	FK20	EK20	AK20	. +
	32	5/10/20/32	76	25	-0.01 -0.02	20	M25X1.5	3	-	2	3	23	FK25	168	AK25	
	40	5/10/20/40	73	30	-0.01 -0.02	25	M30X1.5	-	-	-	3	.28	FK30	(40	-	вка
	50	5/10/12/20/40	94	40	-0.012 -0.025	30	M40X1.5	-	-	- 5	3	38		193		BK40
	16	4/5/10/16	36	12	-0.008 -0.017	12	M12X1	11	4	2.5	2	10	FK12	EK12	AK12	BK1:
	20	4/5/10/20	48	15	-0.008	13	M15X1	13	5	3	2	13	FK15	EK15	AK15	52
22	20	4/5/10/20	59	17	-0.008	17	M17X1	15	5	3	2	15	FK17	200	-	
	25	4/5/10/25	64	20	-0.01 -0.02	16	M20X1	17	6	3.5	2	18	FK20	EK20	AK20	18
	32	5/10/20/32	76	25	-0.01	20	M25X1.5	20	6	3.5	3	23	FK25	14.	AK25	-
	40	5/10/20/40	73	30	-0.01 -0.02	25	M30X1.5	25	8	4	3	28	FK30	100	121	ВКЗ
	50	5/10/12/20/40	94	40	-0.012	30	M40X1.5	35	8	4	3	38	>		~	BK4

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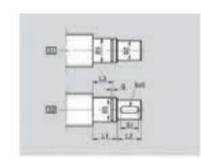




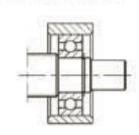
01-0 21-2 31-1 丝杆轴端形状 Screw end forms

类型 31-32 Form 31-32





支撑座剖视图 Application



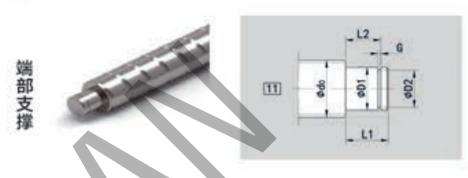
单位 (Unitj:mm

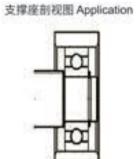
WEIYUAN-

		家珠丝杆规格										UI III			支撑	1至号	
英型 Form	Ba	II Screw Size	E1		D1	L2	D2 h7	L3 +0.2	D3 h11	G H13		Keywa	γ.	E	nd supp	ort blo	ck
	do	P									51	ь Р9	t +0.1	FF型	EF SI	BF 型	AF B
Π	8	2/2.5	9	6	-0.008 -0.015	8	4	6.8	5.7	0.8	-21	2.	2.	FF06	EF06	0	-
	8	2/2.5	9	6	-0.008 -0.015	8	4	6.8	5.7	0.8	+3	3	41	3	EF08	*	30
	12	4/5/10	10	8	-0.008 -0.015	9	6	7.9	7,6	0.9	2		100	FF10	EF10	BF10	AF10
	16	4/5/10/16	11	10	-0.008	15	8	9.15	9.6	1,15	80	(*		FF12	EF12	BF12	AF12
	20	4/5/10/20	13	15	-0.008 -0.017	15	10	10.15	14.3	1,15	5	Į.	-	FF15	EF15	BF15	AF15
31	20	4/5/10/20	16	17	-0.008 -0.017	20	12	13.15	16.2	1.15	+3	4	-	FF17	4	BF17	OF.
	25	4/5/10/25	19	20	-0.01	23	15	15.35	19	1,35	53	15	- 2	FF20	EF20	BF20	AF20
	32	5/10/20/32	20	25	-0.01	25	17	16.35	23.9	1.35	1	Œ	7/	FF25		BF25	AF25
	40	5/10/20/40	21	30	-0.01	30	20	17.75	28.6	1.75	5	65		FF30	^	BF30	
	40	5/10/20/40	22	35	-0.01	38	25	18.75	33	1.75	-		B	V		BF35	144
	50	5/10/12/20/40	23	40	-0.01 -0.025	50	35	19.95	38	1.95				27	-	BF40	58
	20	4/5/10/20	13	15	-0.008 -0.017	15	10	10.15	14.3	1.15	12	3	1,8	FF15	EF15	BF15	AF15
	20	4/5/10/20	16	17	-0.008 -0.017	20	12	13.15	16.2	1.15	17	4	2.5	X134	-	BF17	
	25	4/5/10/25	19	20	-0.01	23	15	15.35	19	1.35	20	5	1	FF20	EF20	10	AF20
32	32	5/10/20/32	20	25	-0.01 -0.02	25	17	16.35	23.9	1.35	21	5	3	FF25	. 10	BF25	AF25
	40	5/10/20/40	21	30	-0.01	30	20	17.75	28.6	1.75	25	5	3	FF30	-	BF30	1723
	40	5/10/20/40	22	35	-0.01 -0.025	38	25	18.75	33	1.75	30	8	4			BF35	100
	50	5/10/12/20/40	23	40	-0.01 -0.025	50	35	19.95	38	1.95	40	8	4	10	1	BF40	1720

丝杆轴端形状 Screw End Forms

类型 11 Form11





单位 (Unit):mm

	ä	(RAHXII)								支撑	9.00年	
東型 Form	Bal	Screw Size	Lt		D1	L2 +0.2	D2 h11	G H13		End Supp	oort Block	
	dO	P							FFE	EF W	BF 🖫	AF B
	8	2.5	9	6	-0.008 -0.015	6.8	5.7	0.8	FF06	EF06	=	3
	8	2.5	9	6	-0.008 -0.015	6.8	5.7	0.8	12	EF08	E	2
	12	4/5/10	10	8	-0.008 -0.015	7.9	7.6	0.9	FF10	EF10	8F10	AF10
Y	16	4/5/10/16	11	10	-0.008	9.15	9.6	1.15	FF12	EF12	BF12	AF12
	20	4/5/10/20	13	15	-0.008 -0.017	10.15	14.3	1.15	FF15	EF15	BF15	AF15
11	20	4/5/10/20	16	1.7	-0.008 -0.017	13.15	16.2	1.15	FF17	~	BF17	(4)
	25	4/5/10/25	19	20	-0.01 -0.02	15.35	19	1.35	FF20	EF20	BF20	AF20
	32	5/10/20/32	20	25	-0.01 -0.02	16.35	23.9	1.35	FF25		BF25	AF25
	40	5/10/20/40	21	30	-0.01 -0.02	17.75	28.6	1.75	FF30	22	8F30	37
	40	5/10/20/40	22	35	-0.01 -0.025	18.75	33	1.75	8	13	BF35	
	50	5/10/12/20/40	23	40	-0.01 -0.025	19.95	38	1.95	.5	8	BF40	2







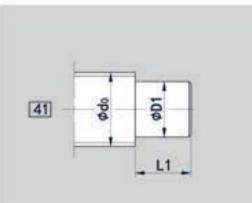


丝杆轴端形状 Screw End Forms

类型 41 Form 41

端部支撑







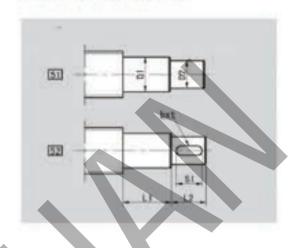
单位 (Unit):mm

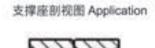
WEIYUAN-

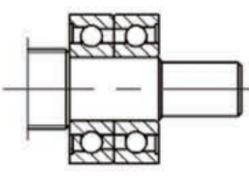
		家珠丝杆揭格					支撑	129	
类型 Form	Ba	all Screw Size	Lt		D1		End Supp	port Block	
	d0	Р				FF St	EF N	BEN	AF型
	8	2.5	6	6	-0.005 -0.012	FF06	EF06	150	50
	8	2.5	6	6	-0.005 -0.012	- 5	EF08	550	53
	12	4/5/10	7	8	-0.005 -0.012	FF10	EF10	BF10	AF10
	16	4/5/10/16	8	10	-0.005 -0.012	FF12	EF12	BF12	AF12
	20	4/5/10/20	9	15	-0.005 -0.014	FF15	EF75	BF15	AF15
41	20	4/5/10/20	12	17	-0.005 -0.014	FF17		BF17	
	25	4/5/10/25	14	20	-0.005 -0.014	FF20	EF20	BF20	AF20
	32	5/10/20/32	15	25	-0.005 -0.014	FF25		BF25	AF25
	40	5/10/20/40	16	30	-0.605 -0.015	FF33	-	BF30	- 6
	40	5/10/20/40	17	35 .	-0.005 -0.015			BF35	+3
	50	5/10/12/20/40	18	40	-0.005 -0.015	5		BF40	*

丝杆轴端形状 Screw End Forms

类型 51-52 Form 51-52







单位 (Unit)mm

	#	文世界深圳				SER				
FONI	Ball	Screw Size	LI		D1	L2	D2 h7		Keyway	
	90	P						S1	b P9	t +0.1
	8	2.5	12	6	-0.005 -0.012	8	4		3	-
	12	4/5/10	16	8	-0.005 -0.012	9	6	32	(46)	-
	12	4/5/10/16	18	10	-0.005 -0.012	15	8	27	878	
	16	4/5/10/20	20	12	-0.005 -0.014	15	10	94	140	-
51	20	4/5/10/20	22	15	-0.005 -0.014	20	12	- 5	* 1	-
51	20	4/5/10/25	24	17	-0.005 -0.014	23	15	12	828	-
	25	5/10/20/32	28	20	-0.005 -0.014	25	17	57	128	-
	30	5/10/20/40	30	25	-0.005 -0.015	30	20	a '	526	-
	40	5/10/20/40	32	30	-0.005 -0.015	38	25	8	5.47	-
	50	5/10/12/20/40	36	40	-0.005 -0.015	50	35	32	0211	-
	16	4/5/10/20	20	12	-0.005 -0.014	15	10	12	3	1.8
	20	4/5/10/20	22	15	-0.005 -0.014	20	12	17	4	2.5
	20	4/5/10/25	24	17	-0.005 -0.014	23	15	20	5	3
52	25	5/10/20/32	28	20	-0.005 -0.014	25	17	21	5	3
	30	5/10/20/40	30	25	-0.005 -0.015	30	20	25	5	3
	40	5/10/20/40	32	30	-0.005 -0.015	38	25	30	8	4
	50	5/10/12/20/40	36	40	-0.005 -0.015	50	35	40	8	- 4



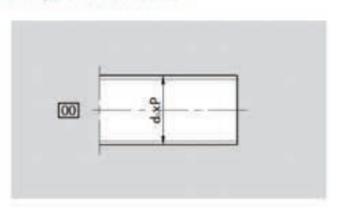
WALKER GOOD

CUMBELLY

EP 45 X WELL

丝杆轴端形状 Screw End Forms

类型 00,端面切断,不加工丝杆轴端 Form 00,Machining of End Face, End not Annealed



	(東)	k丝杆规格
美型 Form	Ball S	Screw Size
	d _o	p
	8	2/2.5
	12	2/4/5/10
	16	4/5/10/16/20
	20	4/5/10/20
	25	4/5/10/25
00	32	5/10/20/32
	40	5/10/20/40
	50	5/10/20/40
	63	10/20
	80	10/20

支撑座 - 订购导引 Order Guidance for Support Unit

建用螺杆外径 Applicable	植画负荷 Allowable	D 负和 Static	ROM NO IN			EM I side		支 Support	
Ballscrew OD	Axial load(kgt)	(60)	RPM (RPM)	Appli	型相 icable idel	C5 使用抽条 Bearings 1 对 / 1 pair	Appli	監督 cable del	使用抽象 Bearing 1 个 /1pc
Φ6	80	75	50000	FK4	EK4	724A DF P5	- 2	27	2.
(Ф8)	100	90	50000	FK5	EK5 EK6	705A DF P5	FF6	EF6	606 ZZ/Z
Ф10-Ф12	500	190	40000	FK8	EK8	708A DF P5	FF6	EF8	606 ZZ/Z
Ф10-Ф15	300	430	30000	BK10 EK10	FK10 AK10	7000 A DF P5	BF10 EF10	FF10 AF10	608 ZZ/Z
200722	22.53	0227	92847827	BK12	FK12	120000000000000000000000000000000000000	BF12	FF12	Park Control
Ф14-Ф18	350	450	30000	EK12	AK12	7001A DF P5	EF12	AF12	6000 ZZ/Z
Ф20	400	570	25000		FK15 AK15	7002A DF P5	BF15 EF15	FF15 AF15	6002 ZZ/Z
	600	1630	14000	BK17	FK17	7203 B DF P5	BF17	FF17	6203 ZZ/Z
	500	1040	20000	BK20		7004 A DF P5	BF20		6004 ZZ/Z
Ф25-Ф28	700	2260	12000	EK20	AK20	7204 B DF P5	EF20	AF20	6204 ZZ/Z
	700	2200	12000	FK20		1204 B DF F3	FF20		0204 2272
Ф30-Ф36	800	2820	9000	BK25 AK25	FK25	7205 B DF P5	BF25 AF25	FF25	6205ZZ/Z 6205ZZ/Z
Ф40	1000	4070	8000	BK30	FK30	7206 B DF P5	BF30	FF30	6206ZZ/Z
Φ45	1500	5540	7000	BK35		7207 B DF P5	BF35		6207 ZZ/Z
Ф50	2000	6850	6000	BK40		7208 B DF P5	BF40		6208 ZZ/Z

备注(Note): 1. 安装方式若采用固定端+固定端、轴向负荷值需再*2(轴向负荷及极限转速栏数值、仅供参考,实际数值请参阅各厂家轴承目录)

If mounting type by Fixed-side and Fixed-side, the axial load need to multiplied by two. (The digit of axial load and RPM in the table is for reference only, please refer to each brand's bearing catalogue for actual information)

61-42 21-22 31-32 11 41 51-52

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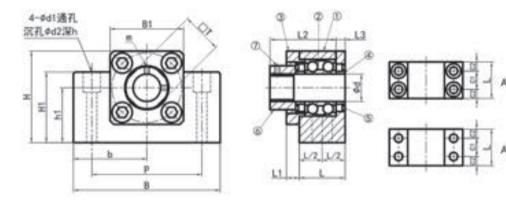
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AK 固定側 AK Fixed End

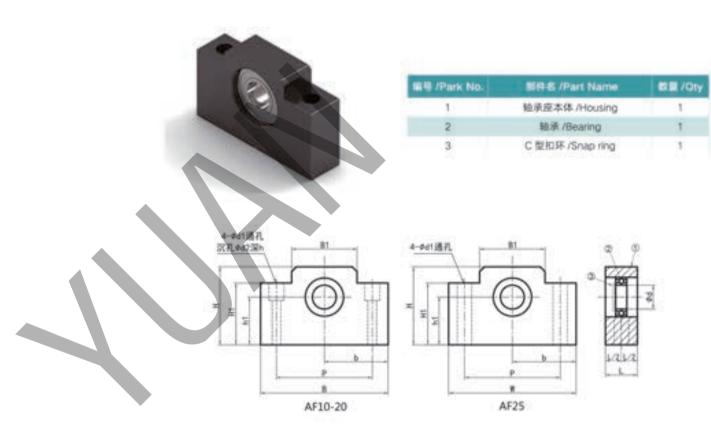
闡号 /Park No. 部件名/Part Name **取服/Oty** 植汞座本体 /Housing 1 轴承/Bearing 1 组 /1 set 压板 /Holding plate 1 间隔环/Collar 油封 /Seal 2 假紧螺母 /Lock nut 内六角铁紧螺母配铜垫 Hexagon socket-head Setscrew



																			单位	/Unit:mm
grey Model	概役 Shaft			12	L3		ii.	ь	ht	81	HI	p	CI	C2	dī	203	h	m		Weight
No.	dameter d							±0.02	±0.02											(kgs)
AK10	10	24	6	29.5	6	70	43	35	25	36	35	52	-	K	Q	14	11	МЗ	16	0.5
AK12	12	24	6	29.5	6	70	43	35	25	36	35	52	-	1	9	14	U)	M4	19	0.5
AK15	15	25	6	36	5	80	49	40	30	41	40	60	-	-	N	17	15	M4	22	0.65
AK20	20	42	10	50	10	95	58	47.5	30	56	45	75	22	10	11		15	M5	30	1.45
AK25	25	48	13	60	14	105	68	52.5	35	66	25	85	30	9	11	-	-	M6	35	1.92

1. 使用角接触轴承经预压处理,轴向 0 间隙。(The use by preloading angular contact bearings, axial clearance 0。) 2. 轴承采用德国品牌,采用 DF 组装最适宜滚珠螺杆使用。(The bearing is made of German brand ,which is assembled by DF。)

AF 支撑側 AF Floating End



	位			

84	報後 Shaft					h1							使用C型扣环	III Weight
Model No.	dameter				±0.02	±0.02	81	HI		81	d2		Snap ring	(kgs)
AF10	8	20	70	43	35	25	36	35	52	9	14	11	S 08	0.37
AF12	10	20	70	43	35	25	36	35	52	9	14	-11	\$ 10	0.37
AF15	15	20	80	49	40	30	41	40	60	9	14	11	\$ 15	0.45
AF20	20	26	96	58	47.5	30	56	45	75	11	17	15	S 20	0.75
AF25	25	30	105	68	52.5	35	66	25	85	11	-	-	S 25	0.95





数限 / Oty

1

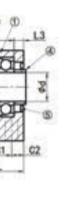
BK 固定側 BK Fixed End

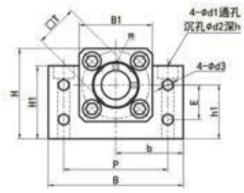


WE Park No.	BR & /Part Name	BE /Gry
1	链球座本体 /Housing	- 1
2	能液 /Bearing	1.ML/Tset
3	JEW: /Holding plate	1
4	網開邦 /Collar	2
5	3885 /Seial	2
60	低氯镍母 /Lock nut	33
7.	内介格铁板镀银 Hexagon socket-head Setscrew	2

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单位 /Unit:mm



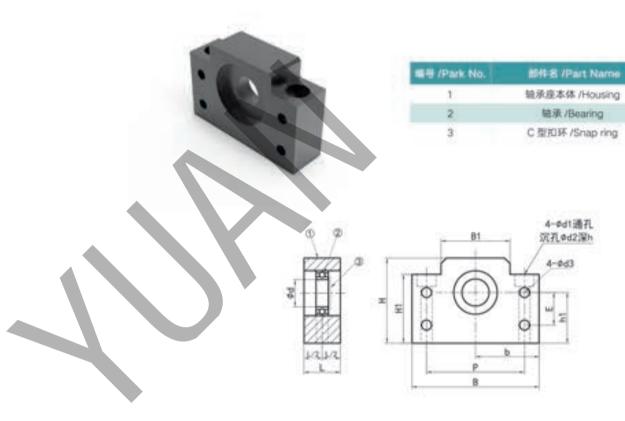


24	Medi shaft			1.2		В	н			81					C2	d3	di					-
Model No.	diameter d		-	-			-	±0.02	±0.02		411			딘		03		dz				(kgs)
BK10	10	25	5	29.5	5	60	39	30	22	34	32.5	15	46	13	6	5.5	6.6	10.8	5	МЗ	16	0.39
BK12	12	25	5	29.5	5	60	43	30	25	35	32.5	18	46	13	6	5.5	6.6	10.8	15	M4	19	9.41
BK15	15	27	6	32	6	70	48	35	28	40	38	18	54	15	6	5.5	6.6	11	6.5	M4	22	0,57
8K17	17	35	9	44	7	86	64	43	39	50	55	28	68	19	8	6.6	9	14	8.5	M5	24	1,27
BK20	20	35	8	43	8	88	60	44	34	52	50	22	70	19	8	6.6	9.	14	8.5	M5	30	1,19
BK25	25	42	12	54	9	106	80	53	48	64	70	33	85	22	10	9	11	17.5	11	М6	35	2.3
BK30	30	45	14	61	9	128	89	64	51	76	78	33	102	23	11	11	14	20	13	М6	40	3.32
BK35	35	50	14	67	12	140	96	70	52	88	79	35	114	26	12	11	14	20	13	M6	50	4.33
BK40	40	61	18	76	15	160	110	80	60	100	90	37	130	33	14	14	18	26	17.5	M8	50	6.5

备注(Note);
1. 使用角接触轴承经预压处理,轴向 0 间隙。(The use by preloading angular contact bearings, axial clearance 0。)
2. 轴承采用德国品牌,采用 DF 组装最适宜滚珠螺杆使用。(The bearing is made of German brand ,which is assembled by DF。)

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BF 支撑側 BF Floating End



		nit	

																and the state of
80	Shuft			B H B1 H1 E P d3 d1 d						172		使用に型約环	EE, Weight			
Model No.	diameter				±0.02	±0.02									Snap ring	(kgs)
BF10	8	20	60	39	30	22	34	32.5	15	46	5.5	6.6	10.8	5	S 08	0.29
BF12	10	20	60	43	30	25	35	32.5	18	46	5.5	6.6	10.8	1.5	\$ 10	0.3
BF15	15	20	70	48	35	28	40	38	18	54	5.5	6.6	11	6,5	S 15	0.38
BF17	17	23	86	64	43	39	50	55	28	68	6.6	9	14	8.5	S 17	0.74
BF20	20	26	88	60	44	34	52	50	22	70	6.6	9	14	8.5	S 20	0.76
BF25	25	30	106	80	53	48	64	70	33	85	9	11	17.5	11	S 25	1.42
BF30	30	32	128	89	64	51	76	7B	33	102	11	14	20	13	\$ 30	1.97
BF35	35	32	140	96	70	52	88	79	35	114	11	14	20	13	S 35	2.22
BF40	40	37	160	110	80	60	100	90	37	130	14	18	26	17.5	S 40	3.27



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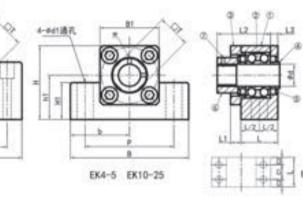
EK 固定侧 EK Fixed End



EK6-B

4-041通孔 図孔002架h

編号 /Park No.	配件名 /Part Name	EE /City
1	轴承座本体 /Housing	1
2	能承/Bearing	1 组 /1 set
3	压板 /Holding plate	1
4	间隔环 /Collar	2
5	抽射/Seal	2
6	铁紧螺母 /Lock nut	1
7	内六角锁紧螺母 Hexagon socket-head Setscrew	2



単位 /Unit:mm						
III 62 /LInitrimm	- 040	-	-		14	
	- 100	60	70	In	at in	norm.

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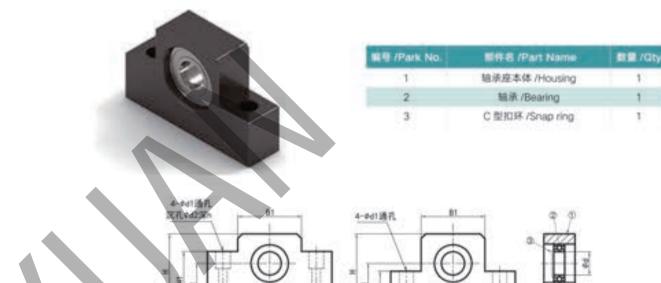
99	m級 Shaft			121				b	hi						-		nes		Į.	88
Model No.	diameter d		LI	La	L3	8	H	10.02	±0.02	B1	HI	P	C1	C.2	d1	dZ.				(kgs)
EK4	4	15	5.5	18.5	2	34	19	17	10	18	7	26	-	-	4,5	4	-	M3	10	0.06
EK5	5	16.5	5.5	19.5	2.5	36	21	18	11	20	8	28	=	K	4.5	-	5	МЗ	11	0.08
EK6	6	20	5.5	22	3.5	42	25	21	13	18	20	30	-	1	5.5	9.5	11	МЗ	12	0.14
EK8	8	23	7	26	4	52	32	26	17	25	26	38	H	-	6.6	.11	12	МЗ	14	0.24
EK10	10	24	:6	29.5	6	70	43	35	25	36	24	52	-	-	9.	+	-	M3	M5	0.46
EK12	12	24	6	29.5	6	70	43	35	25	36	24	52	3	-	9		>	M4	19	0.44
EK15	15	25	6	36	5	80	49	40	30	41	25	60	-	-	11	-	-	M4	22	0.55
EK20	20	42	10	50	10	95	58	47.5	30	56	25	75	-	-	11	-		M5	30	1.35
EK25	.25	48	12	60	14	105	68	52.5	35	66	25	85	30	9	11	-	-	M6	35	1.92

备注 (Note):

1. 使用角接触轴承经预压处理,轴向 0 间隙。(The use by preloading angular contact bearings, axial clearance 0。)
2. 轴承采用德国品牌,采用 DF 组装最适宜滚珠螺杆使用。(The bearing is made of German brand ,which is assembled by DF。)

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EF 支撑侧 EF Floating End



EF6-8

	data.	w	291.1	and the	tim	
100	4	œ	ru	ne	UEF	ж

型号	Milit Shaft		-	н	6.	ht	B1	н	p	at	1000		使用で型扣床	⊞ Weight
Model No. diameter				±0.02	±0.02		""		01	d2		Snap ring	(kgs)	
EF4	3	10	34	19	17	10	18	7	26	4.5	-		S 03	200
EF5	4	10	36	21	18	11	20	8	28	4.5	7	7	\$ 04	5
EF6	6	12	42	25	21	13	18	20	30	5.5	9.5	11	S 06	0.1
EF8	6	14	52	32	26	17	25	26	38	6.6	11	12	S 06	0.16
EF10	8	20	70	43	35	25	36	24	52	9	-	77	S 08	0.35
EF12	10	20	70	43	35	25	36	24	52	9	-	77.	S 10	0.35
EF15	15	20	80	49	40	30	41	25	60	9	20	22	S 15	0.4
EF20	20	26	95	58	47.5	30	56	25	75	11	949	3	S 20	0.65
EF25	25	30	105	68	52.5	35	66	25	85	11	-	-	S 25	0.95

EF4-5 EF10-20



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单位 /Unit:mm

1.05

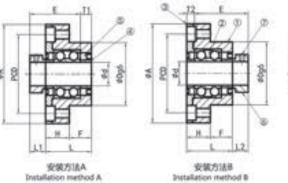
\$ 30

FK 固定侧 FK Fixed End



観号 /Park No.	製件名 (Part Name	BB /Oty
.1	能承度本体 /Housing	1
2	轴承/Bearing	1 /150
3	压板 /Holding plate	1
4	间隔环/Collar	2
5	Mr. Mr. 18 / Seal	2
6	链紧螺母 /Lock nut	1
7	内六角铁菜螺母配铜垫 Hexagon socket-head Setscrew	2

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契装方法A 安装方法B FK4 15 6 9 18.5 18 32 24 25 5.5 2 6.5 3 3.4 68 4 M3 10 0.06 FK5 5 16.5 6 10.5 19.5 20 34 26 26 5.5 2.5 7 4 FK6 20 7 13 22 22 36 28 28 5.5 3.5 8.5 6.5 FKB M3 14 23 9 14 26 28 43 35 35 10 27 10 17 29.5 34 52 42 42 7.5 0.25 FK10 FK12 12 27 10 17 29.5 36 54 44 44 7.5 FK15 15 32 15 17 36 40 63 50 52 10 FK17 17 45 22 23 47 50 77 62 61 11 9 14 FK20 20 52 22 30 50 57 85 70 68 8 10 12 14 6.8 11 10 M5 30 1.2

备注 (Note):

FK25

FK30

-BK

1. 使用角接触轴承经预压处理,轴向 0 间隙。(The use by preloading angular contact bearings, axial clearance 0。) 2. 轴承采用德国品牌,采用 DF 组装最适宜滚珠螺杆使用。(The bearing is made of German brand ,which is

57 27 30 60 63 98 80 79 13 10 20 17 9 15 13 M6 35

30 62 30 32 61 75 117 95 93 11 12 17 18 11 17.5 15 M6 40

assembled by DF.,)

FF 支撑侧 FF Floating End



型号 Model No.	數径 Shaft diameter d				D		P.C.D		d1	d2		使用 C 型和研 Snap ring	Weight (kgs)
FF6	6	10	6	4	22	36	28	28	3.4	6,5	4	\$ 06	0.08
FF10	.8	12	7	5	28	43	35	35	3.4	6.5	4	S 08	0.1
FF12	10	15	7	8	34	52	42	42	4.5	8	4	S 10	0.15
FF15	15	17	9	8	40	63	50	52	5.5	9,5	5.5	S 15	0.22
FF17	17	20	11	9	50	77	62	61	6.6	11	6.5	S 17	0.35
FF20	20	20	11	9	57	85	70	68	6.6	11	6.5	S 20	0.45
FF25	25	24	14	10	63	98	80	79	9	14	8.5	S 25	0.66

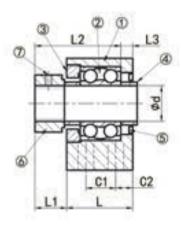
27 18 9 75 117 95 93 11 17.5 11

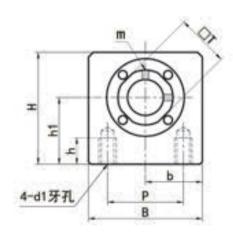
单位 /Unit:mm



FF30

BSQ8 固定側 BSQ8 Fixed End





编号 /Park No.	即件名 /Part Name	数据 / Qty
1	链承度本体 /Housing	1
2	轴承/Bearing	1 组 /1 set
3	压板 /Holding plate	1
4	间隔环 /Collar	2
5	施對 /Seal	1
6	股票螺母 /Lock nut	
7	内六角锁紧螺 / Hexagon socket-head Setscrew	2

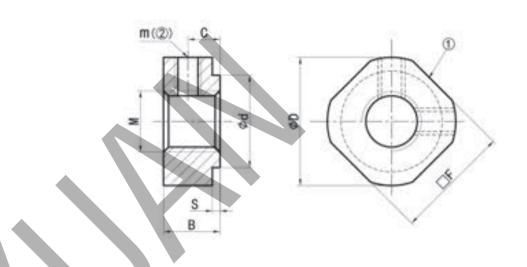
单位 /Unit.mm

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88	M社 Shaft				L.			b	ht								NH.
重号 Model No.	diameter d		LI	-			н	±0.02	10.02	٠,	CZ		di				(kgs)
BSQ8	8	23	7	26	4	32	32	16	17	14	4.5	23	1.15	8	1.43	14	1.61

备注(Note):
1. 使用角接触轴承经预压处理,轴向 0 间隙。(The use by preloading angular contact bearings, axial clearance 0。)
2. 轴承采用德国品牌,采用 DF 组装最适宜滚珠螺杆使用。(The bearing is made of German brand ,which is assembled by DF。)

锁紧螺母 Lock Nut



MS /Park No.	断件名/Part Name	Bill /Qty
1	锁紧螺母 /Lock nut	1
2	内六角世家城母配铜垫 / Hexagon socket-head Setscrews	2(1)

单位 /Unitmm

度号 Model No.	MX 種類極牙種故	D	d	Ē		c	m 内六角原丝配钢板
RN4	M4x0.5	11.5	5	10	5	2.7	M3(x1)
RN5	M5x0.5	12.5	9	31	5	2.7	M3(x2)
RN6	M6x0.75	13.5	10	12	5	2.7	M3(x2)
RN8	M8x1.0	16	13	14	6.5	4	M3(x2)
RN10	M10x1.0	19	15	16	8	5.5	M3(x2)
RN12	M12x1.0	22	17	19	8	5.5	M4(x2)
RN15	M15x1.0	25	21	22	8	4.75	M4(x2)
RN17	M17x1.0	29	21	24	13	9	M4(x2)
RN20	M20x1.0	35	26	30	11	7	M4(x2)
RN25	M25x1.5	43	33	35	15	10	M6(x2)
RN30	M30x1.5	48	39	40	20	14	M6(x2)
RN35	M35x1.5	60	47	50	21	14	M6(x2)
RN40	M40x1.5	62	48	50	25	18	M8(x2)





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