

专注精密传动部件

Expert In Precision Transmission Parts

滚珠丝杠副选型 Ball Screw Selection

SFU R 025 05 T4 D G C5 - 600 - P1 - B2 + N3 N3

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

①

公称型号 Nominal Model	
S	S: 单螺母 Single nut
	D: 双螺母 Double nut
	O: 一体式螺母 Off set double nut
F	F: 有法兰 With flange
	C: 无法兰 Without flange
I	NI: NI 型螺母 NI type nut
U	NU: NU 型螺母 NU type nut
	A: A 型螺母 (滑台专用) A type nut (A solution for slide table)
	Y: Y 型螺母 Y type nut
	U: DIN 型螺母 DIN type nut
	K: K 型螺母 K type nut
	S: S 型螺母 (滑台专用) S type nut (A solution for slide table)

②

螺纹方向 Threading Direction
R: 右 Right
L: 左 Left

⑤

珠卷数 (卷数·列数) Number of Turns (Turn·Row)
卷数 Turn : T:1
A:1.5 (or 1.7/1.8)
B:2.5/2.8
C:3.5
D:4.8
例 ex : (2.5×2 = B2)

⑦

制程代号 Product Code
G: 研磨 Grind
F: 转造 Rolled

③

丝杠轴外径 Nominal Diameter
单位 Unit : mm

④

导程 Lead
单位 Unit : mm

⑥

法兰型式 Flange Type
N: 无切边 Not cutting
S: 单切边 Single cutting
D: 双切边 Double cutting

⑧

导程精度等级 Accuracy Grade
C0, C1, C2, C3, C5, C7, C10

⑨

丝杠轴长度 Overall Length of Shaft
单位 :mm

⑩

轴方向间隙预压等级 Axial Clearance and Preload Value
P0, P1, P2, P3, P4

⑪

螺帽 Number of Nut
(若为 1 个时省略) 例: 一轴两个螺母: B2 (Leave blank if only one nut is required) Ex : Install two nuts on a shaft B2

⑫

螺帽表面处理 Nut Surface Treatment
S: 标准 Standard
B1: 染黑 Black Oxidation
N1: 镀铬 Hard Chrome Plating
N3: 镀镍 Nickel Plating

⑬

丝杠表面处理 Shaft Surface Treatment
S: 标准 Standard
B1: 染黑 Black Oxidation
N1: 镀铬 Hard Chrome Plating
N3: 镀镍 Nickel Plating

当螺母、丝杠均无表面处理时，则省略标示。
No symbol required when plating is not needed.

滚珠丝杠副
BALL SCREW

精度设计 Design Accuracy

1-1-1 导程精度 Lead / Travel Accuracy

精密滚珠丝杠 (C0 级 ~C10 级) 的导程精度, 以 JIS 规格为基准, 并由四个特性项目 (E, e, e_{300} , $e_{2\pi}$) 加以规定。各特性之定义与容许值如图 1.1.1 及表 1.1.1~1.1.3 所示。一般用滚珠丝杠 C7,C10 之累积导程误差, 则仅以在有效螺纹长度范围内任取 300mm 的最大幅宽的误差容许值, 和表 1.1.3 之 e_{300} 加以规定, 各为 0.05mm 及 0.21mm。

According to the standard of JIS,we classified our lead accuracy through E, e, e_{300} and $e_{2\pi}$, four main regulations. As figure 1.1.1 ~ 1.1.3 shown in below, all the definition and tolerance are specified.To test the accumulated travel deviations for grade C7 and C10, the tolerance will be chosen in random 300mm of useful length and evaluated if it is qualified with the e_{300} table of 1.1.3.

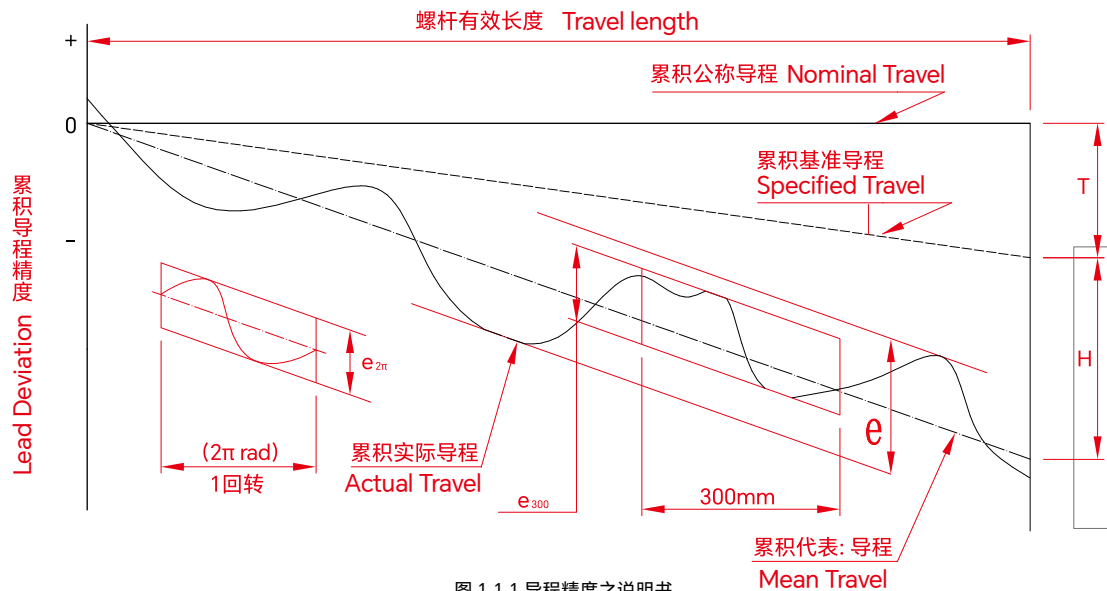


图 1.1.1 导程精度之说明书
Fig 1.1.1 Diagram of Lead Accuracy

用语 Terms	记号 Reference	说明 Definition	容许值 Allowable
累积导程之目标值 Travel Compensation	T	在有效螺纹范围内, 累积基准导程减累积公称导程的差谓之, 亦即考虑运转时之热膨胀、弹性变形等因素。而事先将累积公称导程加以补正, 并据此制作丝杠。其值依实验或经验而定。Travel compensation is the deduction between specified and nominal travel in the useful travel. A slightly smaller value compared with nominal travel is often selected by customer, to compensate for an expected elongation caused by temperature rise or external load. Therefore "T" is usually a negative value. Note : if no compensation is needed, specified travel is the same as nominal travel.	
累积实际导程 Actual Travel		实际测定之累积导程。 Actual travel is the axial displacement of the nut relative to the screw shaft.	
累积代表导程 Mean Travel		代表累积实际导程倾向的直线, 由累积实际导程曲线藉最小二乘法或类似方法, 所求得之直线。Mean travel is the linear best fit line of actual. This could be obtained by the least squares method. This line represents the tendency of actual travel.	
累积代表导程之误差 Mean Travel Deviation	E	累积代表导程减累积基准导程的值。 Mean travel deviation is the deduction between mean travel and specified travel within travel length.	表 Table 1.1.2
变动 Travel Variations	e e_{300} $e_{2\pi}$	与累积代表导程平行划出的 2 直线所夹之累积实际导程之最大幅宽由下列 3 项加以规定。在有效螺纹长度范围内的最大幅宽。 在有效螺纹长度范围内任取 300mm 的最大幅宽。丝杠轴转动 1 圈的范围内, 螺母对应于任意回转角的轴方向移动量的实测值与基准值的差的最大幅宽。 Travel variations is the coverage of 2 lines drawn parallel to the mean travel. Maximum width of variation within the travel length. Actual width of variation for the length of 300mm taken anywhere within the travel length. Wobble error, actual width of variation for one revolution (2 π radian)	表 Table 1.1.2 表 Table 1.1.3 表 Table 1.1.3

精度设计 Design Accuracy

表 Table 1.1.2

累积代表导程误差 ($\pm E$) 与变动 (e) 之容许值 (JIS B 1192)
Mean Travel Deviation ($\pm E$) and Travel Variation (e) (JIS B 1192)

单位 Unit : μm

精度等级 Grade			C0		C1		C2		C3		C5		C7	C10
有效 螺 纹 长 度 Travel Length (mm)	以上 Over	以下 Incl.	±E	e	±E	e	±E	e	±E	e	±E	e	e	e
		100	3	3	3.5	5	5	7	8	8	18	18	±50/300mm	±210/300mm
	100	200	3.5	3	4.5	5	7	7	10	8	20	18		
	200	315	4	3.5	6	5	8	7	12	8	23	18		
	315	400	5	3.5	7	5	9	7	13	10	25	20		
	400	500	6	4	8	5	10	7	15	10	27	20		
	500	630	6	4	9	6	11	8	16	12	30	23		
	630	800	7	5	10	7	13	9	18	13	35	25		
	800	1000	8	6	11	8	15	10	21	15	40	27		
	1000	1250	9	6	13	9	18	11	24	16	46	30		
	1250	1600	11	7	15	10	21	13	29	18	54	35		
	1600	2000			18	11	25	15	35	21	65	40		
	2000	2500			22	13	30	18	41	24	77	46		
	2500	3150			26	15	36	21	50	29	93	54		
	3150	4000			30	18	44	25	60	35	115	65		
	4000	5000					52	30	72	41	140	77		
	5000	6300					65	36	90	50	170	93		
	6300	8000							110	60	210	115		
	8000	10000									260	140		
	10000	12500									320	170		

表 Table 1.1.3

对螺纹部长度 300mm 之变动 (e_{300}) 与摇摆 ($e_{2\pi}$) 之容许值 (JIS B 1192)
International standard of accuracy grade for ball screw

单位 Unit : μm

精度等级	C0	C1	C2	C3	C5	C7	C10
e_{300}	3.5	5	7	8	18	50	210
$e_{2\pi}$	2.5	4	5	6	8		

1-1-2 轴方向间隙 Axial Play

精密滚珠丝杠之轴方向间隙预压等级, 如表 1.1.4 所示。
Axial play of WANGONG's precision ball screw is shown below:

表 Table 1.1.4

轴方向间隙预压等级 Classification of Axial Play

精度等级 Grade	P0	P1	P2	P3	P4
间隙 Axial Play	有 Yes	无 No	无 No	无 No	无 No
预压 Preload	无 No	无 No	轻 Light	中 Medium	重 Heavy

过大的预压力将造成摩擦扭矩大增及温升效应, 而使得预期寿命减短; 但太低的预压力会使得滚珠丝杠刚性不足及增加失步 (LOST MOTION) 的可能性, 于 CNC 工具机的使用上, 以不超过 8% 动负荷为预压力的最大值; 于自动化 X-Y 平台机构上则以不超过 5% 的动负荷为预压力之最大值。

Excessive preload increases the friction torque and generates heat which will reduce the life expectancy. However, insufficient preload will reduce stiffness and increase the possibility of lost motion. recommends that the preload applied on CNC machine tools should not heavier than 8% of the dynamic load; 5% for industrial automation X-Y table.

▶ 精度设计 Design Accuracy

表 Table 1.1.5 预压 (P2) 参考值 The reference spring force of (P2)

规格 Model No.	单螺帽弹簧力 (Kg) Spring Force (Kg) Single Nut	双螺帽弹簧力 (Kg) Spring Force(Kg) Double Nut
1605	0.1~0.3	0.3~0.6
2005	0.1~0.3	0.3~0.6
2505	0.2~0.5	0.3~0.6
3205	0.2~0.5	0.5~0.8
4005	0.2~0.5	0.5~0.8
2510	0.2~0.5	0.5~0.8
3210	0.3~0.6	0.5~0.8
4010	0.3~0.6	0.5~0.8
5010	0.3~0.6	0.8~1.2
6310	0.6~1.0	0.8~1.2
8010	0.6~1.0	0.8~1.2

表 Table 1.1.6 转造级及研磨级滚珠丝杠 (P0) 最大轴向间隙
Axial Play (P0) Clearance in the Axial Direction of Rolled and Grind Ball Screw

丝杠外径尺寸 Nominal Diameter	转造级滚珠丝杠最大轴向间隙 Rolled Ball Screw Clearance in the Axial Direction (max.)	研磨级滚珠丝杠最大轴向间隙 Ground Ball Screw Clearancein the Axial Direction (max.)
Φ04~Φ14 微型滚珠丝杠 miniature ball screw	0.05	0.015
Φ15~Φ40 中尺寸滚珠丝杠 middle size of ball screw	0.08	0.025
Φ50~Φ100 大尺寸滚珠丝杠 big size of ball screw	0.12	0.05

单位 Unit : mm

1-1-3 滚珠丝杠的安装部位精度 Definition of Mounting Accuracy and Tolerance on Ball Screw

滚珠丝杠的安装部位之精度，其必要项目如下：

- (1) 相对于螺纹沟面的轴线 A，测定丝杠支持部位的半径方向圆周偏摆值。
- (2) 相对于丝杠支持部位的轴线 F，测定零件安装部位的同轴度。
- (3) 相对于丝杠轴支持部位的轴线 E，测定支持部位的端面的直角度。
- (4) 相对于丝杠轴线 G，测定螺母的基准面或法兰的安装面的直角度。
- (5) 相对于丝杠轴线 A，测定螺母外缘圆周（圆筒型）的同轴度。
- (6) 相对于丝杠轴线 C，测定螺母外缘（平头型安装面）的平行度。
- (7) 丝杠轴线的半径方向的总偏摆值。

在此所述之精度项目是以 JISB1191、1192 为基准。

The main items of the mounting accuracy of ball screw are listed in below.

- (1) Periphery run-out of the supporting part of the screw shaft to the screw groove.
- (2) Concentricity of a mounting portion of the shaft to the adjacent ground portion of the screw shaft.
- (3) Perpendicularity of the shoulders to the adjacent ground portion of tha screw shaft.
- (4) Perpendicularity of the nut flange to the axis of the screw shaft.
- (5) Concentricity of the ball nut diameter to the screw groove.
- (6) Parallelism of the mounting surface of a ball nut to the screw groove.
- (7) Total run-out of the screw shaft to the axis of the screw shaft.

All WANGONG ball screws are manufactured, inspected and guaranteed to be within specifications.

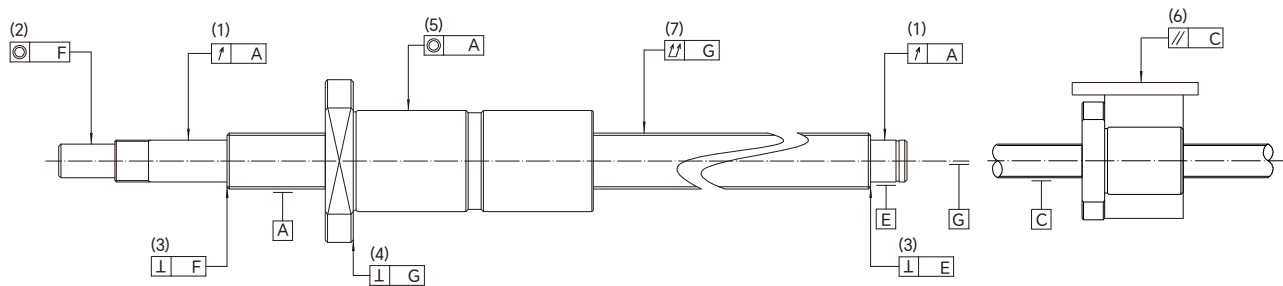


图 1.1.2 滚珠丝杠安装部位的精度
Fig 1.1.2 Mounting Accuracy and Tolerance

▶ 精度设计 Design Accuracy

1-1-4 预压扭矩 Preload Torque

转动有施予预压之滚珠丝杠时，产生之预压扭矩用语如 图 1.1.3 所示。而预压扭矩变动率的容许范围大致上是以 JIS 规格为基准，如表 1.1.7 所示。
As figure 1.1.3 shown in below, it specified all the type of preload torque generated by rotating a preloaded ball screw.

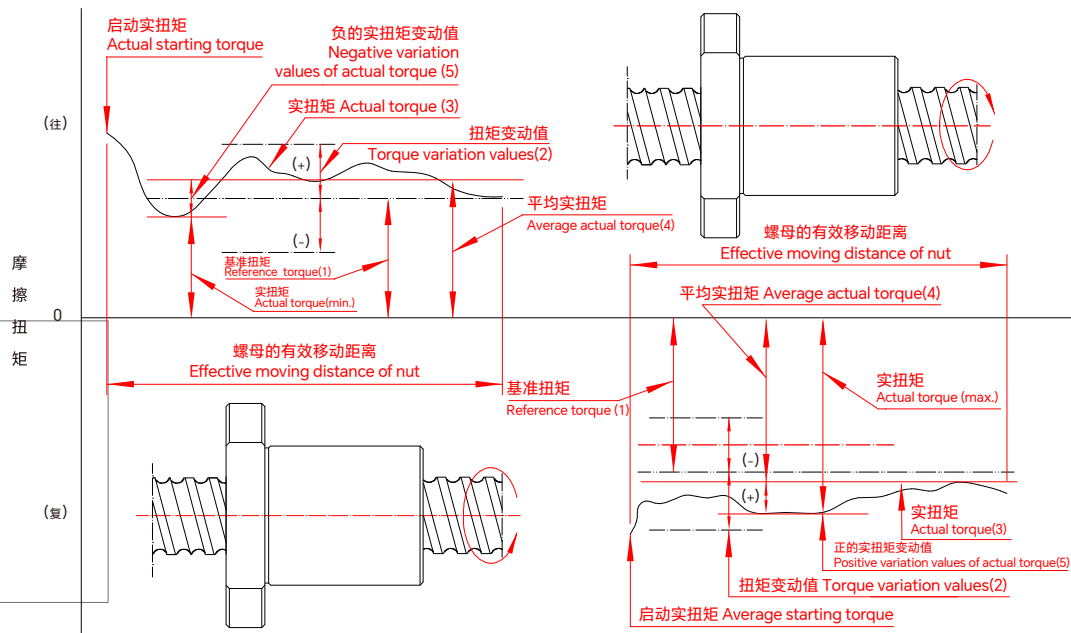


图 1.1.3 预压扭矩的说明
Fig 1.1.3 Descriptions of preload torque

用语之意义 Glossary

1. 预压

为求消除丝杠的间隙增大丝杠之刚性而将 1 组大 1 号的钢珠（约 2μ）填入螺母内，或者使用在丝杠轴方向互相施予移位两个螺母而产生的丝杠内部的作用力。

2. 预压动扭矩

依所定之预压加诸于滚珠丝杠后，在外部无负载的状态下，连续转动丝杠轴或螺母所需之动扭矩谓之。

3. 基准扭矩

做为目标所设定的预压动扭矩图 1.1.3 之 (1)。

4. 扭矩变动值

做为目标所设定的预压动扭矩的变动值。取相对于基准扭矩的正或负值。

1. Preload

To generate the inner force inside the ball screw to decrease the clearance and increase the rigidity, a set of one gage (approximately 2μ) larger steel balls is filled inside the nut or two nuts which are executing mutual displacement in axial direction.

2. Preload dynamic torque

The dynamic torque required for continuously rotating the screws shaft or the nuts under unload condition and the preload has applied to the ball screws.

3. Reference torque

The targeted preload dynamic torque Fig 1.1.3-(1)

4. Torque variation values

The variation values of the targeted preload torque variation rates are specified.Take a positive or negative value relative to the reference torque.

► 精度设计 Design Accuracy

- 5. 扭矩变动率**
相对于基准扭矩的变动值的比率

6. 实扭矩
滚珠丝杠的实测预压动扭矩

7. 平均实扭矩
螺纹部有效长度内；使螺母做往复运动所测得之实扭矩最大与最小值的算术平均数。

8. 实扭矩变动值
螺纹部有效长度内；使螺母做往复运动所测得之最大变动值，最小值取相对于实扭矩的正或负值。

9. 实扭矩变动率
相对于平均实扭矩的变动值比率。

- 5. Torque variation rate**
The variation ratio of reference torque.

6. Actual torque
The actual measured preload dynamic torque of the ball screws.

7. Average actual torque
The arithmetic average of the maximal and minimal actual torque values measured when the nuts are doing reciprocating movements.

8. Actual torque variation values
After the nut doing reciprocating movements on the effective length of the thread, the biggest variation tested will be the actual torque variation value, which is covered between the positive and negative minimum value relative to the actual torque.

9. Actual torque variation rate
The rate of actual torque variation values in relation of the average actual torque.

表 Table 1.1.7 扭矩变动率的容许范围 Permissible ranges of toque variation rates

基准扭矩 Reference torque kgf·cm		有效丝杠长度 Effective threading length mm										
		4000 以下 Below 4000								4000~10000 以下		
		细长比 1: 40 以下 Slenderness 1 : below 40				细长比 :40~1:60 Slenderness1 : 40~1 : 60				-		
		等级 Grade				等级 Grade				等级 Grade		
超过	以下	C0	C1	C2, C3	C5	C0	C1	C2, C3	C5	C1	C2, C3	C5
2	4	±35%	±40%	±45%	±55%	±45%	±45%	±55%	±65%	-	-	-
4	6	±25%	±30%	±35%	±45%	±38%	±38%	±45%	±50%	-	-	-
6	10	±20%	±25%	±30%	±35%	±30%	±30%	±35%	±40%	-	±40%	±45%
10	25	±15%	±20%	±25%	±30%	±25%	±25%	±30%	±35%	-	±35%	±40%
25	63	±10%	±15%	±20%	±25%	±20%	±20%	±25%	±30%	-	±30%	±35%
63	100	-	-	±15%	±20%	-	-	±20%	±25%	-	±25%	±30%

注：细长比是以丝杠轴的螺纹部长度（mm）除丝杠轴外径所得的值谓之。
Remarks：1. Slenderness is the value of dividing the screws shaft outside diameter with the screws shaft threading length.

► 检测仪器 Testing Equipment

拥有完善的质量控制管理体系和先进的检测仪器。
has a comprehensive quality control management system and advanced testing instruments.



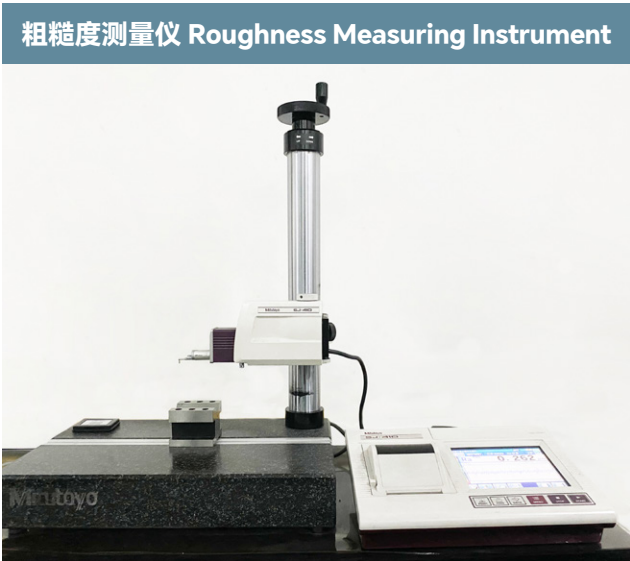
对滚珠丝杆 / 螺母的轮廓、二维尺寸、二维位移，接触角度，进行测试与检验。
Test and inspect the contour, two-dimensional dimensions, two-dimensional displacement, and contact angle of the ball screw nut.



用于测量螺母的圆度、圆柱度、同轴度、同心度、平面度、平行度、垂直度、径向偏差、厚度偏差、径向跳动、径向全跳动、直径测量、直线度、倾斜度、锥度、直径轮廓公差、直线轮廓公差等。
Used to measure the roundness, cylindricity, coaxiality, concentricity, flatness, parallelism, verticality, radial deviation, thickness deviation, radial runout, radial total runout, diameter measurement, straightness, inclination, taper, diameter contour tolerance, straight contour tolerance, etc. of nuts.



用于测量滚珠丝杆材料的表面硬度和芯部硬度。
Used to measure the surface hardness and core hardness of ball screw materials.



可对多种机械加工零件表面的粗糙度进行测量，包括平面、斜面、外圆柱面，曲面，小孔，沟槽及车轴等。
The roughness measuring instrument can measure the surface roughness of various machined parts, including flat surfaces, inclined surfaces, cylindrical surfaces, curved surfaces, small holes, grooves, and axles.

研磨 / 转造级滚珠丝杠 Grinding / Rolled Ball Screw

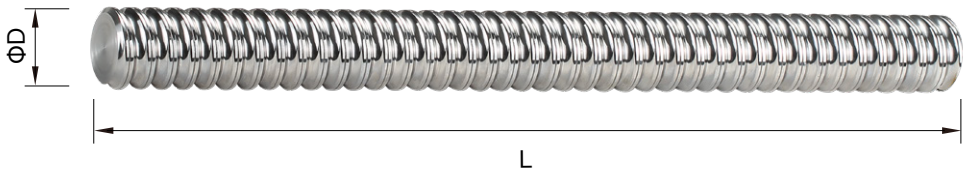


表 Table 2.1.1 精密研磨 / 转造级丝杠标准尺寸规格对照表 Φ6~32 Grind / Rolled Ball Screw Specification Φ6~32

型号 Model No.			导程精度 等级 Accuracy Grade	螺纹方向 Threading Direction R : 右 L : 左	牙口数 Number of Grooves	标准型丝杠 编号 Standard Code of Shaft	适用螺帽 型式 Type of Nut	丝杠最长 长度 Max Length of Shaft	重量 Weight
外径 d	导程 l	珠径 Da						mm	Kg/m
4	1	0.8	C10, C7, C5	R	1	SCR0401	K	1000	0.10
6	1	0.8	C10, C7, C5	R	1	SCR0601	K	1000	0.22
8	1	0.8	C10, C7, C5	R	1	SCR0801	K	1000	0.39
	2	1.2	C10, C7, C5	R	1	SCR0802	K		0.39
	2.5	1.2	C10, C7, C5	R	1	SCR082.5	K, BSH		0.39
10	2	1.2	C10, C7, C5	R	1	SCR1002	K, BSH	3000	0.61
	4	2	C10, C7, C5	R	1	SCR1004	K, BSH		0.61
12	2	1.2	C10, C7, C5	R	1	SCR1202	K	3000	0.88
	4	2.38	C10, C7, C5	R/L	1	SCR1204	U, BSH		0.87
	5	2.5	C10, C7, C5	R	1	SCR1205A	V, U, BSH, H, A, S		0.87
14	2	1.2	C10, C7, C5	R	1	SCR1402	K	1800	1.21
	4	2.5	C10, C7, C5	R	1	SCR1404	BSH	3000	1.2
16	4	2.381	C10, C7, C5	R	1	SCR1604(N)	V, I, U, BSH	4000	1.57
	5	3.175	C10, C7, C5	R/L	1	SCR1605	V, NI, NU, BSH		1.56
	10	3.175	C10, C7, C5	R/L	2	SCR1610	V, NI, NU, BSH		1.56
	16	2.778	C10, C7, C5	R	4	SCR1616	Y		1.55
	32	2.778	C10, C7, C5	R	8	SCR1632	Y		1.55
20	4	2.381	C10, C7, C5	R	1	SCR2004(N)	V, I, U	4000	2.45
	5	3.175	C10, C7, C5	R/L	1	SCR2005	V, NI, NU, BSH, H, A, S		2.45
	20	3.175	C10, C7, C5	R	4	SCR2020	V, Y, H, A, S		2.42
	40	3.175	C10, C7, C5	R	8	SCR2040	Y		2.42
25	4	2.381	C10, C7, C5	R	1	SCR2504(N)	I, U	6000	3.84
	5	3.175	C10, C7, C5	R/L	1	SCR2505	V, NI, NU, BSH, H, A, S		3.83
	10	4.762	C10, C7, C5	R/L	1	SCR2510-A	NI, NU, BSH		3.81
	25	3.969	C10, C7, C5	R	4	SCR2525	Y		3.79
	50	3.969	C10, C7, C5	R	8	SCR2550	Y		3.79
32	4	2.381	C10, C7, C5	R	1	SCR3204(N)	V, I, U	6000	6.3
	5	3.175	C10, C7, C5	R/L	1	SCR3205	V, NI, NU, M, H, A, S		6.29
	10	6.35	C10, C7, C5	R/L	1	SCR3210	V, NI, NU		6.23
	32	4.762	C10, C7, C5	R	4	SCR3232	Y		6.22
	64	4.762	C10, C7, C5	R	8	SCR3264	Y		6.22

研磨 / 转造级滚珠丝杠 Grinding / Rolled Ball Screw

表 Table 2.1.2 标准型尺寸规格对照表 Φ40~80 Standard Specifications Φ40~80

单位 Unit : mm

型号 Model No.			导程精度 等级 Accuracy Grade	螺纹方向 Threading Direction R : 右 L : 左	牙口数 Number of Grooves	标准型丝杠 编号 Standard Code of Shaft	适用螺帽 型式 Type of Nut	丝杠最长 长度 Max Length of Shaft	重量 Weight
外径 d	导程 l	珠径 Da						mm	Kg/m
40	5	3.175	C10, C7, C5	R/L	1	SCR4005	V, NI, NU, H, A, S	6000	9.84
	10	6.350	C10, C7, C5	R/L	1	SCR4010	V, NI, NU		9.78
	20	6.350	C10, C7, C5	R	2	SCR4020	V		9.78
	40	6.350	C10, C7, C5	R	4	SCR4040	Y		9.7
	80	6.350	C10, C7, C5	R	8	SCR4080	Y		9.7
50	5	3.175	C10, C7, C5	R	1	SCR5005	V, H, A, S	6000	15.39
	10	6.350	C10, C7, C5	R/L	1	SCR5010	V, NI, NU		15.33
	20	9.525	C10, C7, C5	R	1	SCR5020	V		15.23
	50	7.938	C10, C7, C5	R	4	SCR5050	Y		15.15
	100	7.938	C10, C7, C5	R	8	SCR50100	Y		15.15
63	10	6.350	C10, C7, C5	R	1	SCR6310	V, NI, NU	7000	24.39
	20	9.525	C10, C7, C5	R	1	SCR6320	V, NU		24.28
80	10	6.350	C10, C7, C5	R	1	SCR8010	V, NI, NU	7000	39.28
	20	9.525	C10, C7, C5	R	1	SCR8020	V, NU		39.27

表 Table 2.1.3 S/A 型尺寸规格对照表 Φ16~50 S/A-type Specifications Φ16~50

单位 Unit : mm

型号 Model No.			导程精度 等级 Accuracy Grade	螺纹方向 Threading Direction R : 右 L : 左	牙口数 Number of Grooves	标准型丝杠 编号 Standard Code of Shaft	适用螺帽 型式 Type of Nut	丝杠最长 长度 Max Length of Shaft	重量 Weight
外径 d	导程 l	珠径 Da						mm	Kg/m
12	10	2.5	C10, C7, C5	R	2	SSR1210	H, A, S	3000	0.87
15	5	2.778	C10, C7, C5	R	1	SSR1605	H, A, S	4000	1.37
	10	2.778	C10, C7, C5	R	2	SSR1610	H, A, S		1.37
	16	2.778	C10, C7, C5	R	4	SSR1616	H, A, S		1.37
	20	2.778	C10, C7, C5	R	4	SSR1620	H, A, S		1.37
20	10	3.175	C10, C7, C5	R	2	SSR2010	H, A, S	4000	2.45
25	10	3.175	C10, C7, C5	R	2	SSR2510	H, A, S	6000	3.83
	25	3.175	C10, C7, C5	R	4	SSR2525	H, A, S		3.83
31	10	3.969	C10, C7, C5	R	1	SSR3210	H, A, S	6000	5.89
	20	3.969	C10, C7, C5	R	2	SSR3220	H, A, S		5.89
	32	3.969	C10, C7, C5	R	4	SSR3232	H, A, S		5.89
38	10	6.35	C10, C7, C5	R	1	SSR4010	H, A, S	6000	8.82
	20	6.35	C10, C7, C5	R	2	SSR4020	H, A, S		8.82
	40	6.35	C10, C7, C5	R	4	SSR4040	H, A, S		8.82
48	10	6.35	C10, C7, C5	R	1	SSR5010	H, A, S	6000	14.12
	20	6.35	C10, C7, C5	R	2	SSR5020	H, A, S		14.12
	50	6.35	C10, C7, C5	R	4	SSR5050	H, A, S		14.12

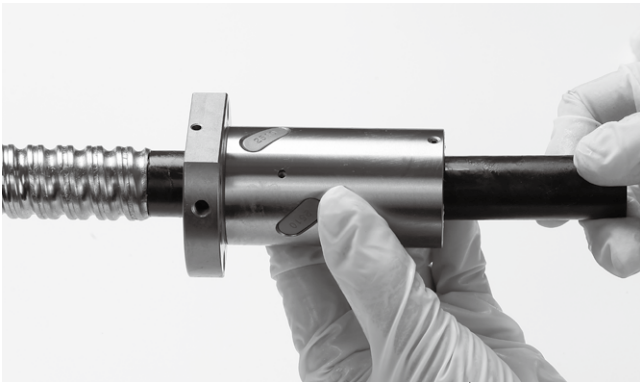
▶ 滚珠丝杠副装配说明 Ball Screw Assembly

装配说明 Assembling the Ball Screws

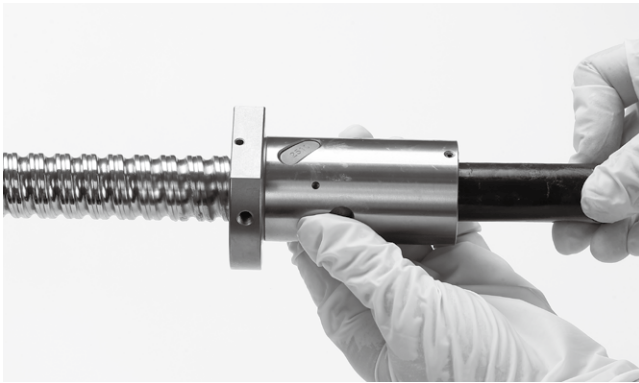
若您订购之产品为转造级单出螺母，请依下列步骤进行装配：
If rolled ball nut is shipped un-assembled please follow the procedure as below.



1. 将螺母上的固定线剪开。
Remove the band.



2. 将转换管对上正确尺寸的丝杠前端。
Attached the mandrel towards machine ends.

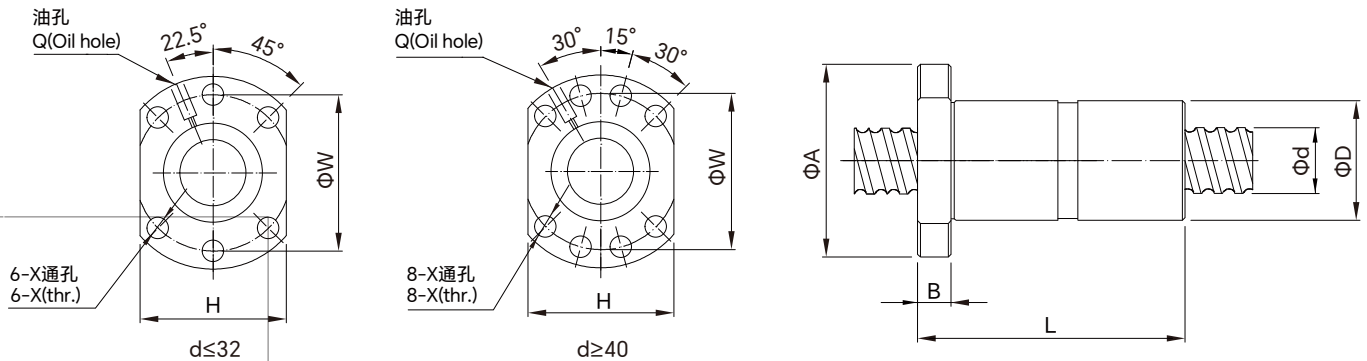


3. 将螺母顺着丝杠的螺纹转入。
Rotate the ball nut into the screw along the thread.



4. 将螺母全行程都转入丝杠上。
注意！确认螺母全部行程都转入丝杠后才能将转换管移开。
Ensure that the ball nut is fully inserted before remove the mandrel.

▶ 双螺母 DFU 系列 Double Nut DFU Series

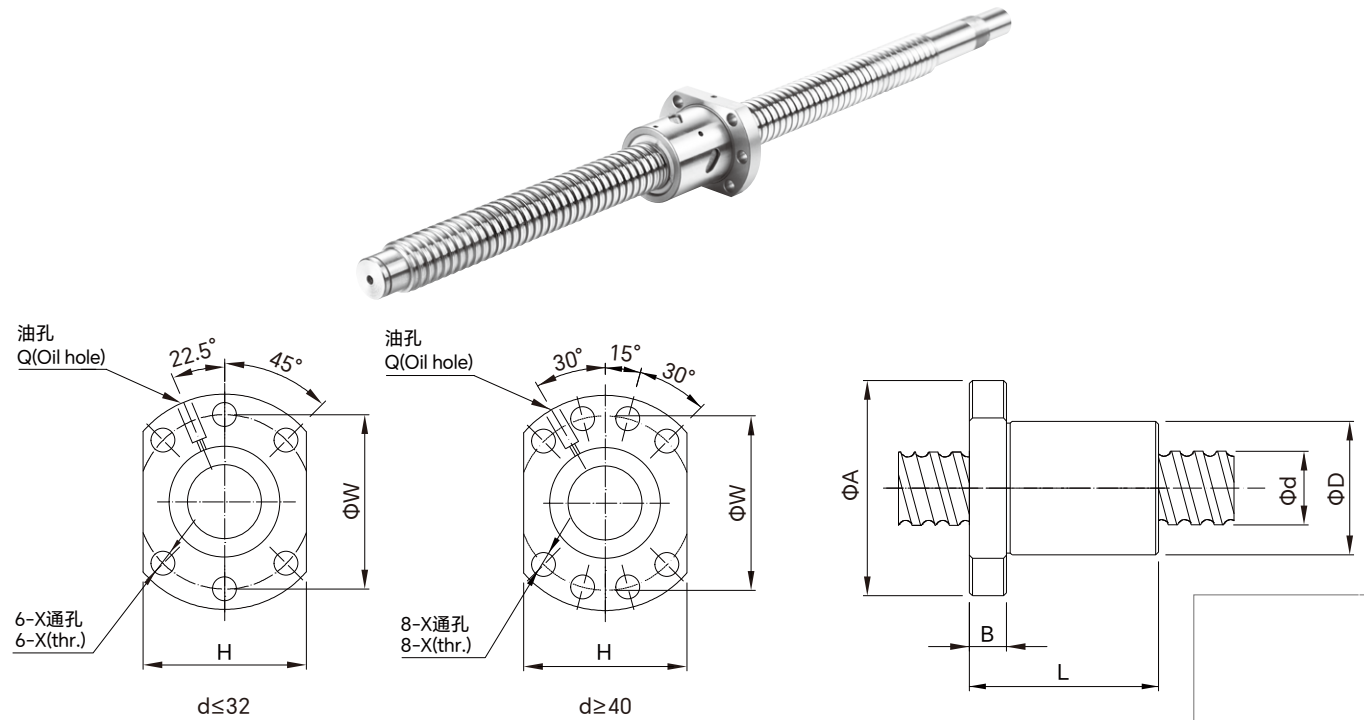


单位 Unit : mm

型号 Model No.	轴径 d	导程 l	珠径 Da	螺母尺寸 Dimension									动静 额定负荷 Load Rating		刚性 Rigidity	重量 Weight
				D	A	B	L	W	H	X	Q	n	Ca(kgf)	Coa(kgf)	Kgf/μm	Kg
DFU1604-4	16	4	2.381	28	48	10	80	38	40	5.5	M6	1x4	973	2406	43	0.308
DFU1605-4 ☆		5	3.175	28	48	10	100	38	40	5.5	M6	1x4	1380	3052	44	0.27
DFU1610-3 ☆		10	3.175	28	48	10	118	38	40	5.5	M6	1x3	1103	2401	35	0.33
DFU2004-4	20	4	2.381	36	58	10	80	47	44	6.6	M6	1x4	1066	2987	51	0.48
DFU2005-4		5	3.175	36	58	10	101	47	44	6.6	M6	1x4	1551	3875	53	0.512
DFU2504-4	25	4	2.381	40	62	10	80	51	48	6.6	M6	1x4	1180	3795	60	0.548
DFU2505-4		5	3.175	40	62	10	101	51	48	6.6	M6	1x4	1724	4904	62	0.532
DFU2510-4 ☆		10	4.762	40	62	12	145	51	48	6.6	M6	1x4	2954	7295	67	0.808
DFU3204-4	32	4	2.381	50	80	12	80	65	62	9	M6	1x4	1296	4838	71	0.956
DFU3205-4		5	3.175	50	80	12	102	65	62	9	M6	1x4	1922	6343	74	0.946
DFU3210-4 ☆		10	6.35	50	80	12	162	65	62	9	M6	1x4	4805	12208	82	1.278
DFU4005-4 ☆	40	5	3.175	63	93	14	105	78	70	9	M8	1x4	2110	7988	87	1.486
DFU4010-4		10	6.35	63	93	14	165	78	70	9	M8	1x4	5399	15500	99	2.18
DFU5010-4 ☆	50	10	6.35	75	110	16	148	93	85	11	M8	1x4	6004	19614	117	3.052
DFU5020-4 ☆		20	7.144	75	110	16	280	93	85	11	M8	1x4	7142	22588	126	4.200
DFU6310-4 ☆	63	10	6.35	90	125	18	182	108	95	11	M8	1x4	6719	25358	139	4.175
DFU6320-4		20	9.525	95	135	20	290	115	100	13.5	M8	1x4	11444	36653	152	8.362
DFU8010-4	80	10	6.35	105	145	20	182	125	110	13.5	M8	1x4	7346	31953	156	4.806
DFU8020-4		20	9.525	125	165	25	295	145	130	13.5	M8	1x4	12911	47747	187	16.66
DFU10020-4	100	20	9.525	150	202	30	340	170	155	17.5	M8	1x4	14303	60698	222	26.4

注：有☆记号可制作左螺纹 Note: ☆ Left Helix Available

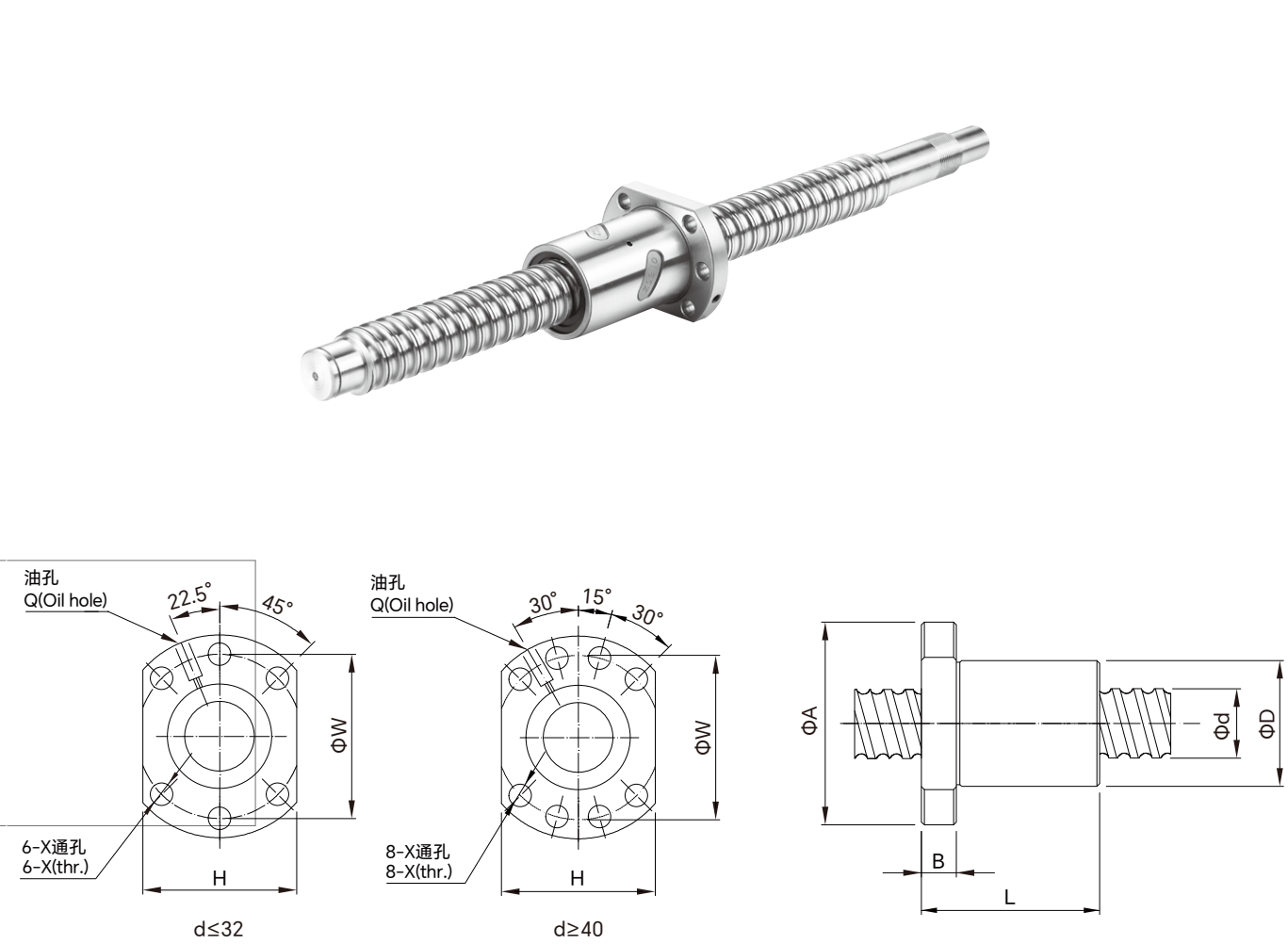
▶ 法兰型 SFU 系列 Flange Type SFU Series



型号 Model No.	直径 d	导程 l	珠径 Da	螺母尺寸 Dimension									动静 额定负荷 Load Rating		刚性 Rigidity	重量 Weight
				D	A	B	L	W	H	X	Q	n	Ca(kgf)	Coa(kgf)	Kgf/um	Kg
SFU1204-3 ☆	12	4	2.381	22/24	42	8	35	32	30	4.5	M5	1x3	902	1884	26	0.138
SFU1604-4	16	4	2.381	28	48	10	40	38	40	5.5	M6	1x4	973	2406	32	0.184
SFU1605-3/4 ☆		5	3.175	28	48	10	42/50	38	40	5.5	M6	1x3/4	1380	3052	32	0.19
SFU1610-2/3 ☆	16	10	3.175	28	48	10	44/57	38	40	5.5	M6	1x2/3	1103	2401	26	0.22
SFU2004-4	20	4	2.381	36	58	10	42	47	44	6.6	M6	1x4	1066	2987	38	0.294
SFU2005-3/4 ☆		5	3.175	36	58	10	44/51	47	44	6.6	M6	1x3/4	1551	3875	38	0.316
SFU2010-2/3		10	3.175	36	58	10	44/60	47	44	6.6	M6	1x4/3	1551	3875	38	0.32
SFU2504-4	25	4	2.381	40	62	10	42	51	48	6.6	M6	1x4	1180	3795	43	0.384
SFU2505-3/4 ☆		5	3.175	40	62	10	44/51	51	48	6.6	M6	1x3/4	1724	4904	45	0.35
SFU2510-3/4 ☆		10	4.762	40	62	12	70/85	51	48	6.6	M6	1x3/4	2954	7295	50	0.484
SFU3204-4	32	4	2.381	50	80	12	44	65	62	9	M6	1x4	1296	4838	51	0.658
SFU3205-4 ☆		5	3.175	50	80	12	52	65	62	9	M6	1x4	1922	6343	54	0.588
SFU3210-3/4 ☆		10	6.35	50	80	12	74/90	65	62	9	M6	1x3/4	4805	12208	61	0.832
SFU4005-3/4	40	5	3.175	63	93	14	45/55	78	70	9	M8	1x4	2110	7988	63	0.97
SFU4010-3/4 ☆		10	6.35	63	93	14	74/93	78	70	9	M8	1x3/4	5399	15500	73	1.246
SFU5005-4	50	5	3.175	75	110	16	55	93	85	11	M6	1x4	6004	19614	85	1.82
SFU5010-4 ☆		10	6.35	75	110	16	93	93	85	11	M8	1x4	6004	19614	85	1.82
SFU05020-4 ☆		20	7.144	75	110	16	138	93	85	11	M8	1x4	7142	22588	94	2.674
SFU6310-4 ☆	63	10	6.35	90	125	18	98	108	95	11	M8	1x4	6719	25358	99	2.576
SFU6320-4		20	9.525	95	135	20	149	115	100	13.5	M8	1x4	11444	36653	112	4.888
SFU8010-4 ☆	80	10	6.35	105	145	20	98	125	110	13.5	M8	1x4	7346	31953	109	9.016
SFU8020-4		20	9.525	125	165	25	154	145	130	13.5	M8	1x4	12911	47747	138	9.016
SFU10020-4	100	20	9.525	150	202	30	180	170	155	17.5	M8	1x4	14303	60698	162	10

注：有☆记号可制作左螺纹 Note: ☆ Left Helix Available

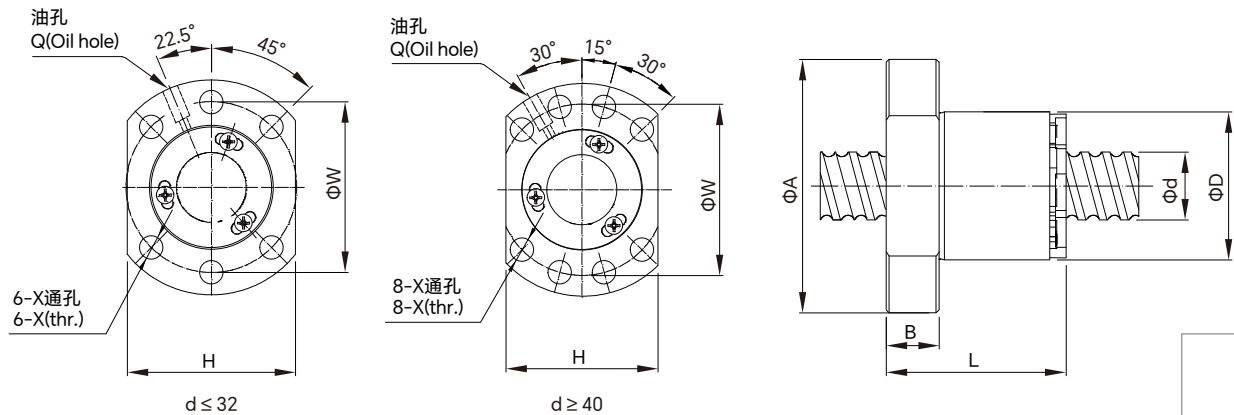
▶ 强防尘 SFNU 系列 Strong Dust-proof SFNU Series



型号 Model No.	轴径 d	导程 l	珠径 Da	螺母尺寸 Dimension									动静 额定负荷 Load Rating		刚性 Rigidity	重量 Weight
				D	A	B	L	W	H	X	Q	n	Ca(kgf)	Coa(kgf)	Kgf/um	Kg
SFNU1204-4 ☆	12	4	2.381	24	40	10	40	32	30	4.5	M6	1x4	902	1884	26	0.138
SFNU1605-4 ☆	16	5	3.175	28	48	10	45	38	40	5.5	M6	1x4	1380	3052	32	0.19
SFNU1610-3 ☆		10	3.175	28	48	10	57	38	40	5.5	M6	1x3	1103	2401	26	0.22
SFNU2005-4 ☆	20	5	3.175	36	58	10	51	47	44	6.6	M6	1x4	1551	3875	39	0.316
SFNU2505-4 ☆	25	5	3.175	40	62	10	51	51	48	6.6	M6	1x4	1724	4904	45	0.35
SFNU2510-4 ☆		10	4.762	40	62	12	80	51	48	6.6	M6	1x4	2954	7295	50	0.484
SFNU3205-4 ☆	32	5	3.175	50	80	12	52	65	62	9	M6	1x4	1922	6343	54	0.588
SFNU3210-4 ☆		10	6.350	50	80	12	85	65	62	9	M6	1x4	4805	12208	61	0.832
SFNU4005-4 ☆	40	5	3.175	63	93	14	55	78	70	9	M8	1x4	2110	7988	63	0.97
SFNU4010-4 ☆		10	6.350	63	93	14	88	78	70	9	M8	1x4	5399	15500	73	1.246
SFNU5010-4 ☆	50	10	6.350	75	110	16	88	93	85	11	M8	1x4	6004	19614	85	1.82
SFNU6310-4 ☆	63	10	6.350	90	125	18	93	108	95	11	M8	1x4	6719	25358	99	2.576
SFNU8010-4	80	10	6.350	105	145	20	93	125	110	13.5	M8	1x4	7346	31953	109	3.1

注：有☆记号可制作左螺纹 Note: ☆ Left Helix Available

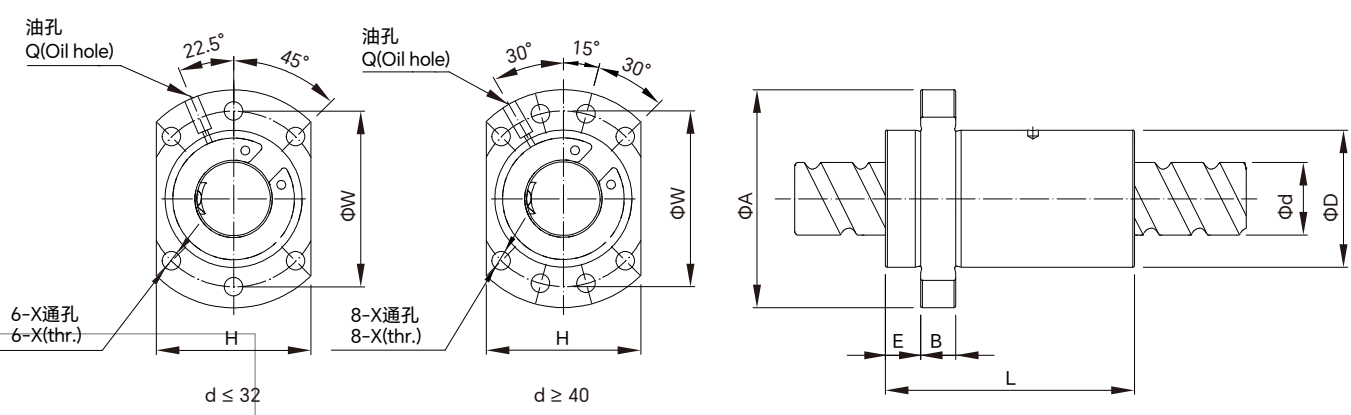
▶ 高速低噪音 SFS 系列 High Speed Low Noise SFS Series



单位 Unit : mm

型号 Model No.	轴径 d	导程 l	珠径 Da	螺母尺寸 Dimension									动静 额定负荷 Load Rating		刚性 Rigidity	重量 Weight
				D	A	B	L	W	H	X	Q	n	Ca(kgf)	Coa(kgf)	Kgf/um	Kg
SFS1205-2.8	12	5	2.5	24	40	10	31	32	30	4.5	M6	2.8x1	661	1316	19	0.11
SFS1210-2.8		10	2.5	24	40	10	48.5	32	30	4.5	M6	2.8x1	642	1287	19	0.144
SFS1605-3.8	15	5	2.778	28	48	10	38	38	40	5.5	M6	3.8x1	1112	2507	30	0.184
SFS1610-2.8		10	2.778	28	48	10	47	38	40	5.5	M6	2.8x1	839	1821	23	0.212
SFS1616-1.8		16	2.778	28	48	10	45	38	40	5.5	M6	1.8x1	552	1137	14	0.208
SFS1620-1.8		20	2.778	28	48	10	57	38	40	5.5	M6	1.8x1	554	1170	14	0.24
SFS2005-3.8	20	5	3.175	36	58	10	40	47	44	6.6	M6	3.8x1	1484	3681	37	0.246
SFS2010-3.8		10	3.175	36	58	10	60	47	44	6.6	M6	3.8x1	1516	3833	40	0.336
SFS2020-1.8		20	3.175	36	58	10	57	47	44	6.6	M6	1.8x1	764	1758	19	0.332
SFS2505-3.8	25	5	3.175	40	62	10	40	51	48	6.6	M6	3.8x1	1650	4658	43	0.27
SFS2510-3.8		10	3.175	40	62	12	62	51	48	6.6	M6	3.8x1	1638	4633	45	0.384
SFS2525-1.8		25	3.175	40	62	12	70	51	48	6.6	M6	1.8x1	843	2199	22	0.43
SFS3205-3.8	32	5	3.175	50	80	12	42	65	62	9	M6	3.8x1	1839	6026	51	0.65
SFS3210-3.8		10	3.969	50	80	13	62	65	62	9	M6	3.8x1	2460	7255	55	0.65
SFS3220-2.8		20	3.969	50	80	12	80	65	62	9	M6	2.8x1	1907	5482	43	0.8
SFS3232-1.8		32	3.969	50	80	13	84	65	62	9	M6	1.8x1	1257	3426	27	0.84
SFS4005-3.8	40	5	3.175	63	93	15	45	78	70	9	M8	3.8x1	2018	7589	60	0.808
SFS4010-3.8		10	6.35	63	93	14	63	78	70	9	M8	3.8x1	5035	13943	67	1.026
SFS4020-2.8		20	6.35	63	93	14	82	78	70	9	M8	2.8x1	3959	10715	54	1.282
SFS4040-1.8		40	6.35	63	93	15	105	78	70	9	M8	1.8x1	2585	6648	34	1.518
SFS5005-3.8	50	5	3.175	75	110	15	45	93	85	11	M8	3.8x1	2207	9542	68	1.098
SFS5010-3.8		10	6.35	75	110	18	68	93	85	11	M8	3.8x1	5638	17852	79	1.458
SFS5020-3.8		20	6.35	75	110	18	108	93	85	11	M8	3.8x1	5749	18485	87	2.172
SFS5050-1.8		50	6.35	75	110	18	125	93	85	11	M8	1.8x1	2946	8749	42	2.486

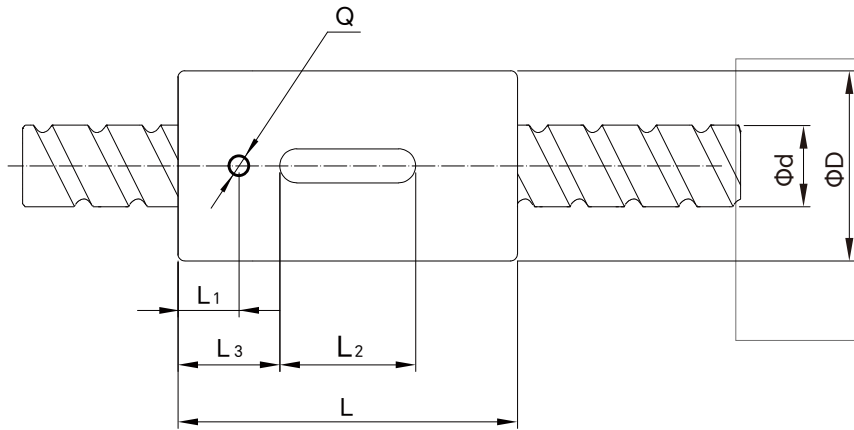
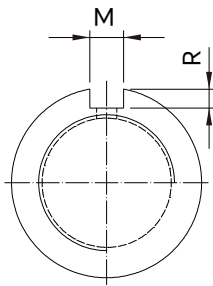
▶ 强防尘低噪音 SFA 系列 Strong Dust-proof Low Noise SFA Series



单位 Unit : mm

型号 Model No.	轴径 d	导程 l	珠径 Da	螺母尺寸 Dimension										动静 额定负荷 Load Rating		刚性 Rigidity	重量 Weight
				D	A	E	B	L	W	H	X	Q	n	Ca(kgf)	Coa(kgf)		
SFA1205-2.8	12	5	2.5	24	40	5	10	30	32	30	4.5	M6	2.8x1	661	1316	19	0.112
SFA1210-2.8		10	2.5	24	40	5	10	42	32	30	4.5	M6	2.8x1	642	1287	19	0.13
SFA1605-3.8	15	5	2.778	28	48	5	10	31	38	40	5.5	M6	3.8x1	1112	2507	30	0.168
SFA1610-2.8		10	2.778	28	48	5	10	42	38	40	5.5	M6	2.8x1	839	1821	23	0.198
SFA1616-1.8		16	2.778	28	48	5	10	43	38	40	5.5	M6	1.8x1	552	1137	14	0.202
SFA1620-1.8		20	2.778	28	48	5	10	50	38	40	5.5	M6	1.8x1	554	1170	14	0.222
SFA2005-3.8	20	5	3.175	36	58	7	10	33	47	44	6.6	M6	3.8x1	1484	3681	37	0.245
SFA2010-3.8		10	3.175	36	58	7	10	52	47	44	6.6	M6	3.8x1	1516	3833	40	0.33
SFA2020-1.8		20	3.175	36	58	7	10	52	47	44	6.6	M6	1.8x1	764	1758	19	0.332
SFA2505-3.8	25	5	3.175	40	62	7	10	33	51	48	6.6	M6	3.8x1	1650	4658	43	0.272
SFA2510-3.8		10	3.175	40	62	7	12	52	51	48	6.6	M6	3.8x1	1638	4633	45	0.35
SFA2525-1.8		25	3.175	40	62	7	12	60	51	48	6.6	M6	1.8x1	843	2199	22	0.415
SFA3205-3.8	32	5	3.175	50	80	9	12	35	65	62	9	M6	3.8x1	1839	6026	51	0.462
SFA3210-3.8	31	10	3.969	50	80	9	12	53	65	62	9	M6	3.8x1	2460	7255	55	0.58
SFA3220-2.8		20	3.969	50	80	9	12	72	65	62	9	M6	2.8x1	1907	5482	43	0.742
SFA3232-1.8		32	3.969	50	80	9	12	78	65	62	9	M6	1.8x1	1257	3426	27	0.79
SFA4005-3.8	40	5	3.175	63	93	9	14	39	78	70	9	M8	3.8x1	2018	7589	60	0.808
SFA4010-3.8	38	10	6.35	63	93	9	14	57	78	70	9	M8	3.8x1	5035	13943	67	0.87
SFA4020-2.8		20	6.35	63	93	9	14	78	78	70	9	M8	2.8x1	3959	10715	54	1.15
SFA4040-1.8		40	6.35	63	93	9	14	96	78	70	9	M8	1.8x1	2585	6648	34	1.525
SFA5005-3.8	50	5	3.175	75	110	10.5	15	42	93	85	11	M8	3.8x1	2207	9542	68	0.944
SFA5010-3.8	48	10	6.35	75	110	10.5	18	57	93	85	11	M8	3.8x1	5638	17852	79	1.28
SFA5020-3.8		20	6.35	75	110	10.5	18	98	93	85	11	M8	3.8x1	5749	18485	87	2.05
SFA5050-1.8		50	6.35	75	110	10.5	18	117	93	85	11	M8	1.8x1	2946	8749	42	2.4

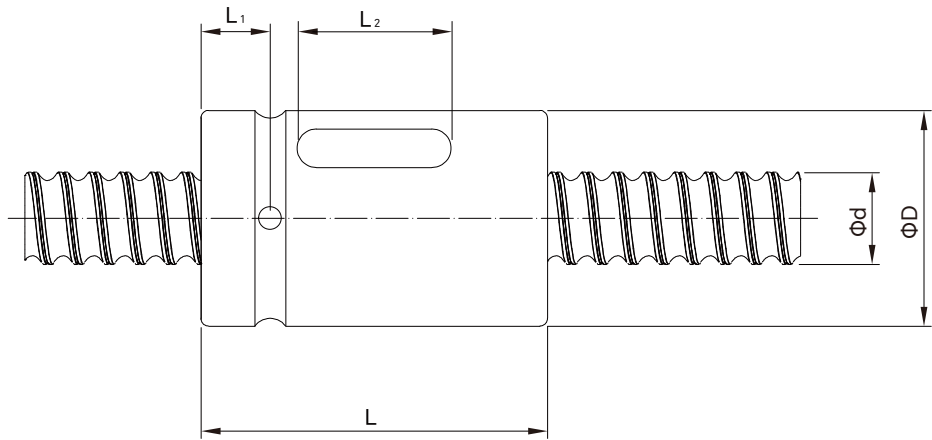
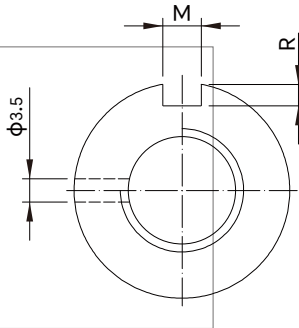
直筒型 SCA 系列 Straight Cylinder Type SCA Series



单位 Unit : mm

型号 Model No.	轴径 d	导程 l	珠径 Da	螺母尺寸 Dimension									动静 额定负荷 Load Rating		刚性 Rigidity	重量 Weight
				D	L	L ₁	L ₂	L ₃	M	R	Q	n	Ca(kgf)	Coa(kgf)	Kgf/um	Kg
SCA1205-4.8	12	5	2.5	24	40	7	12	14	3	1.5	3	4.8x1	1011	2105	34	0.092
SCA1210-2.8		10	2.5	24	45	8	15	15	3	1.5	3	2.8x1	642	1287	19	0.104
SCA1210-1.8		10	2.5	24	40	10.5	12	14	3	1.5	3	1.8x1	439	827	33	0.08
SCA1605-5.8	15	5	2.778	28	45	7	20	12.5	5	3	3	5.8x1	1599	3827	49	0.144
SCA1610-2.8		10	2.778	28	45	7	20	12.5	5	3	3	2.8x1	839	1821	23	0.14
SCA1616-1.8		16	2.778	28	45	7	20	12.5	5	3	3	1.8x1	552	1137	18	0.136
SCA1620-1.8		20	2.778	28	58	10	20	19	5	3	3	1.8x1	554	1170	14	0.17
SCA2005-5.8	20	5	3.175	36	47	8	20	13.5	5	3	3	5.8x1	2134	5619	60	0.214
SCA2010-3.8		10	3.175	36	55	8	20	17.5	5	3	3	3.8x1	1516	3833	40	0.254
SCA2020-1.8		20	3.175	36	55	8	20	17.5	5	3	3	1.8x1	764	1758	19	0.252

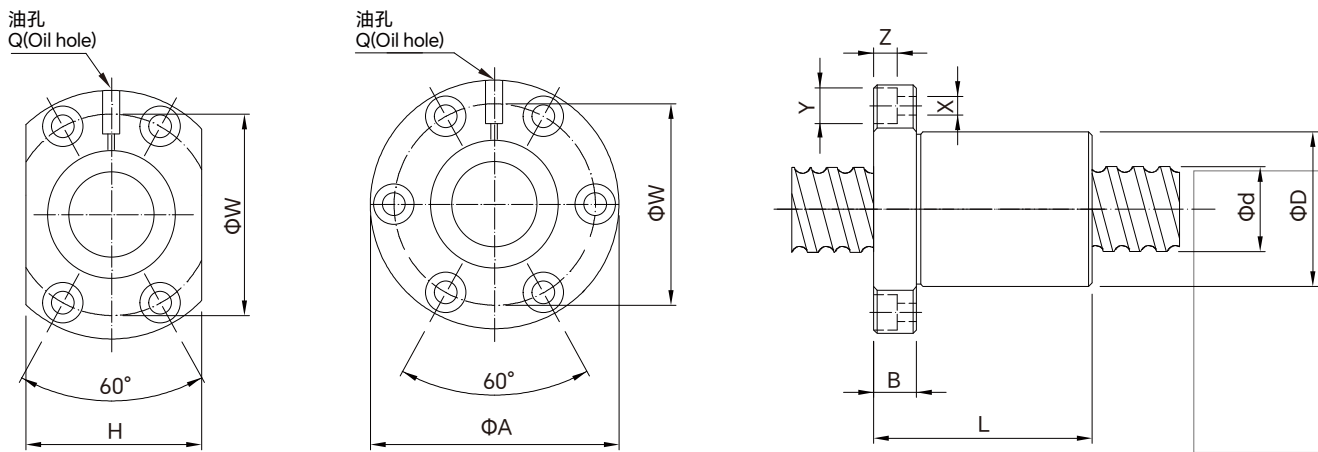
直筒强防尘型 SCNI/SCI 系列 Strong Dust-proof SCNI/SCI Series



单位 Unit : mm

型号 Model No.	轴径 d	导程 l	珠径 Da	螺母尺寸 Dimension							动静 额定负荷 Load Rating		刚性 Rigidity	重量 Weight
				D	L	L ₁	L ₂	M	R	n	Ca(kgf)	Coa(kgf)	Kgf/um	Kg
SCNI1605-4	16	5	3.175	30	45	9	20	5	3	1x4	1380	3052	33	0.146
SCNI2005-4	20	5	3.175	34	45	9	20	5	3	1x4	1551	3875	39	0.17
SCNI2505-4	25	5	3.175	40	45	9	20	5	3	1x4	1724	4904	45	0.226
SCNI2510-4		10	4.762	46	85	13	30	5	3	1x4	2954	7295	51	0.664
SCNI3205-4	32	5	3.175	46	45	9	20	5	3	1x4	1922	6343	52	0.252
SCNI3210-4		10	6.35	54	85	13	30	5	3	1x4	4805	12208	62	0.784
SCNI4005-4	40	5	3.175	56	45	9	20	5	3	1x4	2110	7988	59	0.406
SCNI4010-4		10	6.35	62	85	13	30	5	3	1x4	5399	15500	72	0.932
SCNI5010-4	50	10	6.35	72	85	13	30	5	3	1x4	6004	19614	83	1.21
SCNI6310-4	63	10	6.35	85	85	13	30	6	3.5	1x4	6719	25358	95	1.52
SCNI8010-4	80	10	6.35	105	85	13	30	8	4.5	1x4	7346	31953	109	2.292
SCI1604-4	16	4	2.381	30	40	9	15	3	1.5	1x4	973	2406	32	0.14
SCI2004-4	20	4	2.381	34	40	9	15	3	1.5	1x4	1066	2987	37	0.16
SCI2504-4	25	4	2.381	40	40	9	15	3	1.5	1x4	1180	3795	43	0.22
SCI3204-4	32	4	2.381	46	40	9	15	3	1.5	1x4	1296	4838	49	0.2

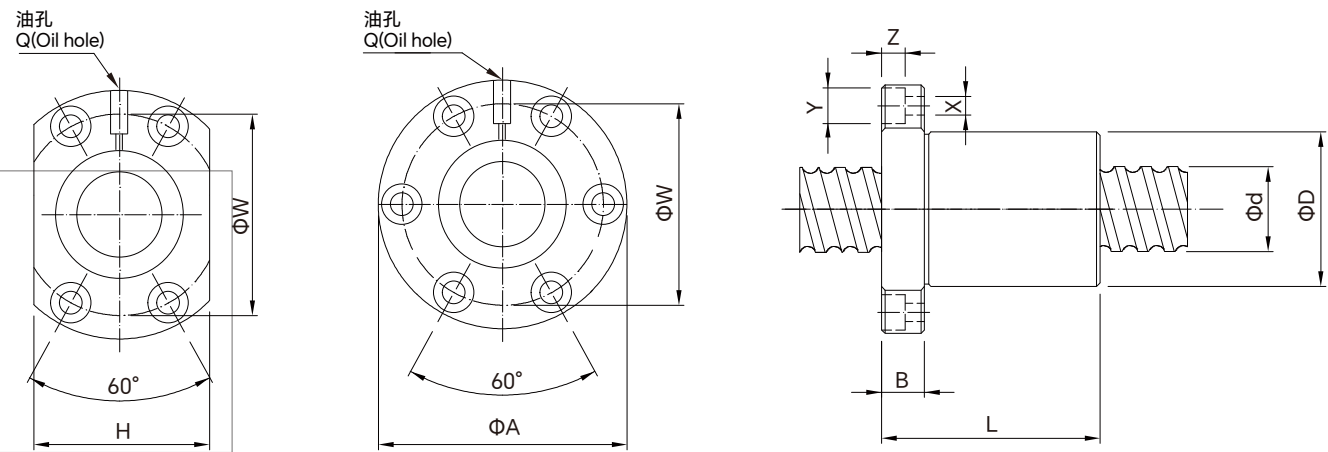
▶ 法兰型 SFI 系列 Flange Type SFI Series



单位 Unit : mm

型号 Model No.	轴径 d	导程 l	珠径 Da	螺母尺寸 Dimension											动静 额定负荷 Load Rating		刚性 Rigidity	重量 Weight
				D	A	B	L	W	H	x	Y	Z	Q	n	Ca(kgf)	Coa(kgf)	Kgf/um	Kg
SFI1604-4	16	4	2.381	30	49	10	45	39	34	4.5	8	4.5	M6	1x4	973	2406	32	0.246
SFI1605-4		5	3.175	30	49	10	50	39	34	4.5	8	4.5	M6	1x4	1380	3052	33	0.220
SFI1610-3		10	3.175	34	58	10	57	45	34	5.5	9.5	5.5	M6	1x3	1103	2401	27	0.382
SFI2004-4	20	4	2.381	34	57	11	46	45	40	5.5	9.5	5.5	M6	1x4	1066	2987	37	0.312
SFI2005-4		5	3.175	34	57	11	51	45	40	5.5	9.5	5.5	M6	1x4	1551	3875	39	0.308
SFI2504-4	25	4	2.381	40	63	11	46	51	46	5.5	9.5	5.5	M6	1x4	1180	3795	43	0.386
SFI2505-4		5	3.175	40	63	11	51	51	46	5.5	9.5	5.5	M8	1x4	1724	4904	45	0.396
SFI2510-4		10	4.762	46	72	12	85	58	52	6.5	11	6.5	M6	1x4	2954	7295	51	0.802
SFI3204-4	32	4	2.381	46	72	12	47	58	52	6.5	11	6.5	M6	1x4	1296	4838	49	0.46
SFI3205-4		5	3.175	46	72	12	52	58	52	6.5	11	6.5	M8	1x4	1922	6343	52	0.472
SFI3210-4		10	6.35	54	88	15	90	70	62	9	14	8.5	M8	1x4	4805	12208	62	1.14
SFI4005-4	40	5	3.175	56	90	15	55	72	64	9	14	8.5	M8	1x4	2110	7988	59	0.840
SFI4010-4		10	6.35	62	104	18	93	82	70	11	17.5	11	M8	1x4	5399	15500	72	1.548
SFI5010-4	50	10	6.35	72	114	18	93	92	82	11	17.5	11	M8	1x4	6004	19614	83	1.924
SFI6310-4	63	10	6.35	85	131	22	98	107	95	14	20	13	M8	1x4	6719	25358	95	2.674
SFI8010 4	80	10	6.35	105	150	22	98	127	115	14	20	13	M8	1x4	7346	31953	109	3.90

▶ 强防尘 SFNI 系列 Strong Dust-proof SFNI Series

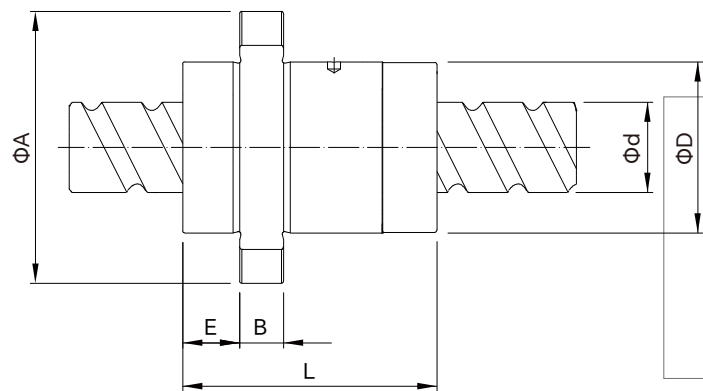
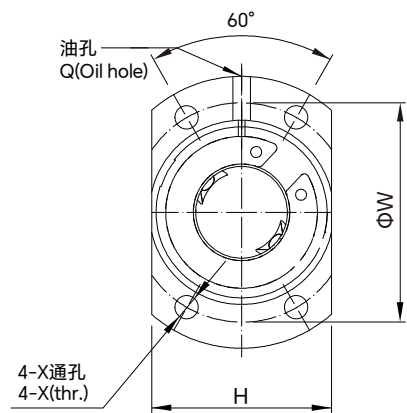


单位 Unit : mm

型号 Model No.	轴径 d	导程 l	珠径 Da	螺母尺寸 Dimension											动静 额定负荷 Load Rating		刚性 Rigidity	重量 Weight
				D	A	B	L	W	H	X	Y	Z	Q	n	Ca(kgf)	Coa(kgf)	Kgf/um	Kg
SFNI1605-4 ☆	16	5	3.175	30	49	10	45	39	34	4.5	8	4.5	M6	1x4	1380	3052	33	0.22
SFNI1610-3 ☆		10	3.175	34	58	10	57	45	34	5.5	9.5	5.5	M6	1x3	1103	2401	27	0.382
SFNI2005-4 ☆	20	5	3.175	34	57	11	51	45	40	5.5	9.5	5.5	M6	1x4	1551	3875	39	0.308
SFNI2505-4 ☆	25	5	3.175	40	63	11	51	51	46	5.5	9.5	5.5	M8	1x4	1724	4904	45	0.396
SFNI2510-4 ☆		10	4.762	46	72	12	80	58	52	6.5	11	6.5	M6	1x4	2954	7295	51	0.802
SFNI3205-4 ☆	32	5	3.175	46	72	12	52	58	52	6.5	11	6.5	M8	1x4	1922	6343	52	0.472
SFNI3210-4 ☆		10	6.35	54	88	15	85	70	62	9	14	8.5	M8	1x4	4805	12208	62	1.14
SFNI4005-4 ☆	40	5	3.175	56	90	15	55	72	64	9	14	8.5	M8	1x4	2110	7988	59	0.84
SFNI4010-4 ☆		10	6.35	62	104	18	88	82	70	11	17.5	11	M8	1x4	5399	15500	72	1.548
SFNI5010-4 ☆	50	10	6.35	72	114	18	88	92	82	11	17.5	11	M8	1x4	6004	19614	83	1.924
SFNI6310-4	63	10	6.35	85	131	22	93	107	95	14	20	13	M8	1x4	6719	25358	95	2.674
SFNI8010-4	80	10	6.35	105	150	22	93	127	115	14	20	13	M8	1x4	7346	31953	109	3.9

注：有 ☆ 记号可制作左螺纹 Note: ☆ Left Helix Available

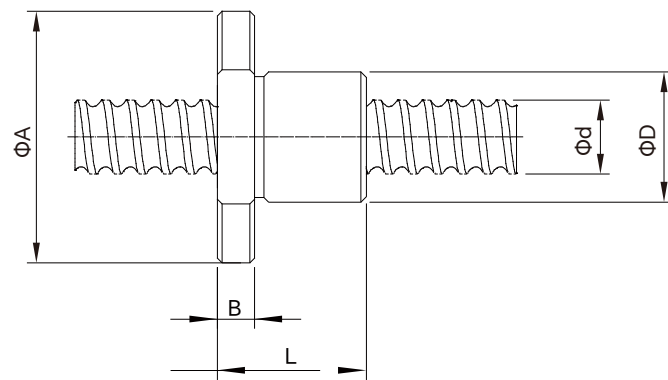
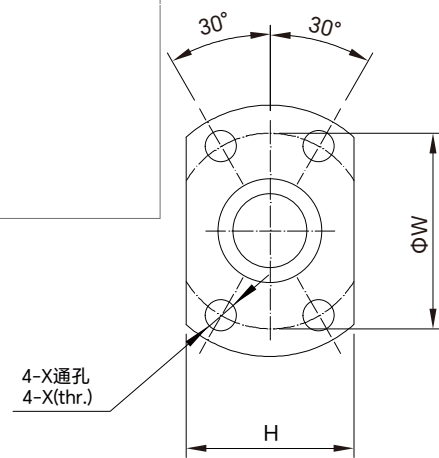
▶ 大导程 SFY 系列 Big Lead SFY Series



一倍导程公称 型号 Large Lead Model No.	轴径 d	导程 l	珠径 Da	螺母尺寸 Dimension										动静 额定负荷 Load Rating		刚性 Rigidity	重量 Weight
				D	A	E	B	L	W	H	X	Q	n	Ca(kgf)	Coa(kgf)	Kgf/um	Kg
SFY1616-3.6	16	16	2.778	32	53	10.1	10	45	42	34	4.5	M6	1.8x2	1073	2551	31	0.238
SFY2020-3.6	20	20	3.175	39	62	13	10	52	50	41	5.5	M6	1.8x2	1387	3515	37	0.38
SFY2525-3.6	25	25	3.969	47	74	15	12	64	60	49	6.6	M6	1.8x2	2074	5494	45	0.652
SFY3232-3.6	32	32	4.762	58	92	17	12	78	74	60	9	M6	1.8x2	3021	8690	58	1.168
SFY4040-3.6	40	40	6.35	73	114	19.5	15	99	93	75	11	M6	1.8x2	4831	14062	70	2.288
SFY5050-3.6	50	50	7.938	90	135	21.5	20	117	112	92	14	M6	1.8x2	7220	21974	86	4.12

二倍导程公称 型号 Twin Lead Model No.	轴径 d	导程 l	珠径 Da	螺母尺寸 Dimension										动静 额定负荷 Load Rating		刚性 Rigidity	重量 Weight
				D	A	E	B	L	W	H	X	Q	n	Ca(kgf)	Coa(kgf)	Kgf/um	Kg
SFY1632-1.6	16	32	2.778	32	53	10.1	10	42.5	42	34	4.5	M6	0.8x2	493	1116	11	0.222
SFY2040-1.6	20	40	3.175	39	62	13	10	48	50	41	5.5	M6	0.8x2	653	1597	15	0.348
SFY2550-1.6	25	50	3.969	47	74	15	12	58	60	49	6.6	M6	0.8x2	976	2495	19	0.596
SFY3264-1.6	32	64	4.762	58	92	17	12	71	74	60	9	M6	0.8x2	1374	3571	22	1.066
SFY4080-1.6	40	80	6.35	73	114	19.5	15	90	93	75	11	M6	0.8x2	2273	6387	29	2.096
SFY50100-1.6	50	100	7.938	90	135	21.5	20	111	112	92	14	M6	0.8x2	3398	9980	35	3.818

▶ 微型 SFK 系列 Mini Type SFK Series



单位 Unit : mm

型号 Model No.	轴径 d	导程 l	珠径 Da	螺母尺寸 Dimension										动静 额定负荷 Load Rating		刚性 Rigidity	重量 Weight	
				D	A	B	L	W	H	X	Y	Z	Q	n	Ca(kgf)	Coa(kgf)	Kgf/um	Kg
SFK0401	4	1	0.8	10	20	3	12	15	14	2.9	—	—	—	1x2	64	97	5	0.024
SFK0601	6	1	0.8	12	24	3.5	15	18	16	3.4	—	—	—	1x3	111	224	9	0.018
SFK0801 ☆	8	1	0.8	14	27	4	16	21	18	3.4	—	—	—	1x4	161	403	14	0.027
SFK0802 ☆		2	1.2	14	27	4	16	21	18	3.4	—	—	—	1x3	222	458	13	0.026
SFK082.5		2.5	1.2	16	29	4	26	23	20	3.4	—	—	—	1x3	221	457	13	0.038
SFK1002 ☆	10	2	1.2	18	35	5	28	27	22	4.5	—	—	—	1x3	243	569	15	0.056
SFK1004		4	2	26	46	10	34	36	28	4.5	8	4.5	M6	1x3	468	905	17	0.068
SFK1202 ☆	12	2	1.2	20	37	5	28	29	24	4.5	—	—	—	1x4	334	906	22	0.062
SFK1402 ☆	14	2	1.2	21	40	6	23	31	26	5.5	—	—	—	1x4	354	1053	24	0.081
SFK1602 ☆	16	2	1.2	25	43	10	40	35	29	5.5	—	—	M6	1x4	373	1200	26	0.236

注：有☆记号可制作左螺纹 Note: ☆ Left Helix Available