

接单生产

Customized products

为了满足客户的各种设计需求,除标准库存品以外,本公司还承接接单生产。为节省客户的设计时间,我们对各种螺母类型进行了标准化。

●接单生产的种类

关于接单生产,无论是精密滚珠丝杠,还是冷轧滚珠丝杠,都根据螺母类型进行了标准化。螺母类型有以下几种。此外,我们还生产其他类型和尺寸的特别定制产品,详情请垂询本公司。

In order to meet the needs of customer's requested design, we offer customized products. To reduce design process at customer, each Nut type is standardized.

●Variety of Customized products

Customized Precision Ball Screws and Rolled Ball Screws are both standardized in Ball Nut dimension only. Please refer to following description about Standardized Ball Nut type. If you need special Ball Nut other than below, feel free to ask KSS.

KSS will provide with required Ball Nut as a special order.

注)*表示双向螺母。

●按轴径和导程分类的型号一览

Table of Shaft dia. and Lead combination

注)*表示双向螺母。
Note)* means Bi-directional Nut with Flange.

Shaft dia. / 轴径 (mm)	Lead / 导程 (mm)																	
	0.5	1	1.5	2	2.5	3	4	5	6	8	10	12	15	20	25	30		
1.8	FBS																	
3	FBS	FBS BS																
4	FBS	FKB FBS BS MS FKB* FBS* MRB BSR MSR		FBS BS MRB BSR		FBS BS	FEB											
5	FBS	FKB FBS BS FKB* FBS*					FBS BS MRB BSR											
6	FBS	FKB FBS BS KS FKB* FBS* MRB BSR	FBS BS	FBS BS MS KS MRB BSR	FBS BS			FEB MRB		FEB MRB	FEB							
8	FBS	FKB FBS BS KS FKB* FBS* MRB BSR	FKB FBS BS MS FKB* FBS*	FKB FBS BS MS FKB* FBS* MRB BSR MSR	FDB FBS BS MS MRB BSR MSR	FBS BS MS	FBS BS MS	FBS BS MS MRB BSR MSR		FEB MRB	FEB MRB	FEB MRB						
10		FKB FBS BS KS FKB* FBS*	FKB FBS BS FKB* FBS*	FKB FBS BS KS FKB* FBS* MRB BSR MSR	FKB FBS BS FKB* FBS*	FBS BS FBS*	FBS BS FBS* MRB BSR	FDB FBS BS FBS* MRB BSR	MRB BSR	FEB MRB	FEB MRB	FEB MRB	FEB MRB	FEB MRB	FEB	FEB	FEB	
12		FKB FBS BS FKB* FBS*		FKB FBS BS MS FKB* FBS* MRB BSR MSR	FKB FBS BS FKB* FBS*	FKB FBS BS FKB* FBS*	FBS BS MS FBS*	FBS BS		FEB MRB								
13												FEB MRB	FEB MRB	FEB MRB				
14		FBS BS FBS*		FKB FBS BS MS FKB* FBS* MRB BSR MSR	FKB FBS BS FKB* FBS*	FKB FBS BS FKB* FBS*	FKB FBS BS FKB* FBS* MRB BSR MSR	FBS BS FBS*										
15								FBS	FEB FBS MRB			FEB FBS MRB		FEB FBS MRB		FEB		
16		FBS BS FBS*		FKB FBS BS FKB* FBS*	FKB FBS BS FKB* FBS*	FKB FBS BS FKB* FBS*	FKB FBS BS FKB* FBS*	FBS BS FBS*										
20								FBS						FBS				

●按螺母种类分类的型号一览 Nut style list

Nut type 螺母形状	Precision Ball Screws 精密滚珠丝杠	Rolled Ball Screws 冷轧滚珠丝杠
Single Nut with Flange 带法兰单螺母	FKB FBS FDB FEB	MRB
Sleeve type Single Nut 套筒型单螺母	BS	BSR
Single Nut with M-thread 带公制螺纹单螺母	MS	MSR
Square type Single Nut 方型单螺母	KS	—
Bi-directional Nut with Flange 双向螺母	FBS* FKB*	—

注)*表示双向螺母。
Note)* means Bi-directional Nut with Flange.

●滚珠丝杠的生产范围 Maximum limit of overall lengths

Unit(单位):mm

Accuracy grade 精密等级	C0	C1	C3	C5	C7 & C10 (Rolled Ball Screw / 冷轧)
Shaft nominal dia. 轴径					
4	90	120	160	170	240
5	90	120	160	170	300
6	140	180	240	250	350
8	200	250	330	350	450
10	260	320	420	450	650
12	320	390	510	550	700
13	320	390	510	550	700
14	380	460	600	660	700
15	380	460	600	660	1000
16	450	540	700	770	—

●带法兰单螺母 (FBS,FKB,FDB,FEB,MRB系列) Single Nut with Flange



用法兰部螺栓孔安装螺母的最简单的单螺母丝杠。有复式回路板循环方式(FBS,MRB系列),陀螺式循环方式(FKB系列),偏转器式循环方式(FDB系列)以及端盖式循环方式(FEB系列)等的多种产品供您选择。

It is the most simple Single Nut type. Normally Ball Screws are used with small Axial play, but using oversized Balls allows for the application of light preloading and eliminates backlash(only Precision grade). Nut should be mounted using bolt holes in Flange. FBS, MRB(Return-plate), FKB(Internal-deflector), FDB(End-deflector), FEB(End-cap) circulation system can be distinguished. Please refer to dimension table.

●套筒型单螺母 (BS,BSR系列) Sleeve type Single Nut



采用圆筒型单螺母实现了径向紧凑化。
可用圆筒面键槽和螺母端面安装螺母。

It is Cylindrical Single Nut which is compact. Alike Single Nut with Flange, Axial play can be eliminated(only Precision grade). The Nut should be mounted by clamping on the key way on the Nut outer and Nut end surface.

●带公制螺纹单螺母 (MS,MSR系列) Single Nut with M-thread



圆筒型螺母端面设有公制螺纹用于直接安装螺母。
最适用于气缸,电动缸等用途。

The Cylindrical type with M-thread at the Nut end. The Nut should be mounted using M-thread. It is suitable for mounting with cylinder.

●方型单螺母 (KS系列) Square type Single Nut



平行于螺母中心设有较宽安装面的方形螺母丝杠。
螺母与支座一体,可实现紧凑型设计。

The Square Nut is finished with a large mounting face parallel to the Nut center. Nut itself has Housing function. This allows for a more compact design compared to Flange type.

●双向单螺母 (FKB,FBS系列) Bi-directional Nut with Flange



单轴同时加工左旋和右旋螺纹,实现双向丝杠,左右相位控制等的功能。

Since there are both Right-handed thread and Left-handed thread on a Shaft, it has Bi-directional function.

Single Nut with Flange type is standardized, but it is also possible to manufacture Sleeve type Nut. In addition, absolute position control for both Nut is available.

●其他 Others



作为特殊规格,也生产双螺母产品,需要时请垂询本公司。

KSS can provide Double Nut style as one of choices for pre-loaded Ball Screws as special customized products.

Please ask KSS representative if necessary.



●公称型号的构成 Model number notation

FBS **04** **01** **B** — **100** **R** **120** **C3** — **05**

① ② ③ ④ — ⑤ ⑥ ⑦ ⑧ — ⑨

①螺母类型符号

精密滚珠丝杠:

FBS : 带法兰单螺母
BS : 套筒型单螺母
MS : 带公制螺纹单螺母
KS : 方型单螺母

冷轧滚珠丝杠:

MRB : 带法兰单螺母
BSR : 套筒型单螺母
MSR : 带公制螺纹单螺母

②丝杠轴公称外径(mm)

③导程(mm)

④循环数符号(详情参照尺寸表)

⑤螺纹部长度(mm)

⑥螺纹旋向(R=右旋,L=左旋)

⑦丝杠轴总长(mm)

⑧精度等级(C0,C1,C3,C5,C7,C10)

⑨轴向间隙(μm)

①Ball Nut type No.

Precision Ball Screws

FBS : Single Nut with Flange
BS : Sleeve type Single Nut
MS : Single Nut with M-thread
KS : Square type Single Nut

Rolled Ball Screws

MRB : Single Nut with Flange
BSR : Sleeve type Single Nut
MSR : Single Nut with M-thread

②Screw Shaft nominal diameter(mm)

③Lead(mm)

④Re-circulation number(In detail refer to dimension table)

⑤Screw thread length(mm)

⑥Thread direction(R=Right-hand, L=Left-hand)

⑦Screw shaft total length(mm)

⑧Accuracy grade(C0,C1,C3,C5,C7,C10)

⑨Axial play(μm)

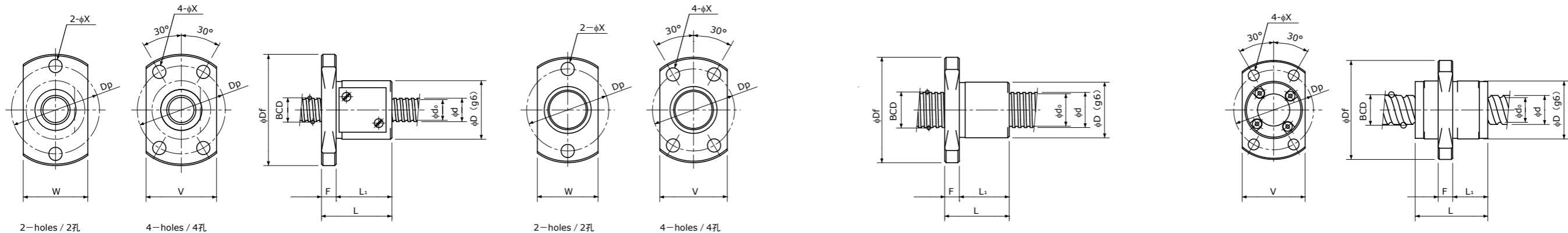
●注意事项

- 有关具体尺寸、额定负载、刚性等,请参照各型号相应的尺寸表。
- 有关精度、轴向间隙、材质、生产范围等详情,请参照技术解说A801页。
- 接单生产时,丝杠轴的形状、尺寸未进行标准化。本公司可根据客户需求,制作KSS规格图。
- 设计丝杠轴时,由于组装螺母的关系,请注意使丝杠轴的其中一端(双向丝杠及冷轧滚珠丝杠时应为两端)不超过底径。
- 有关其它注意事项,请参照“存放、操作及使用注意事项”A901页。

●Precaution

- Please refer to dimension table of each model regarding dimension, Load Rating, Rigidity.
- Please refer to Technical Description in page A801 regarding Accuracy, Axial play, Material, production range and so on.
- Shaft configuration, Shaft dimension of Customized products are not standardized. KSS will create a Drawing based on customer's specifications.
- When designing Shaft configuration, fixed end or supported end (in case of Bi-directional Ball Screws and Rolled Ball Screw, both ends) should be smaller than Shaft Root diameter due to Nut assemble.
- Please refer to 「Precaution of storage, handling, and operating」 in page A901 in detail other than the above.

Precision Ball Screws 精密滚珠丝杠

Single Nut with Flange
带法兰单螺母Backlash type/Preload type
齿侧间隙型/预压型Type-1: Return-plate type
复式回路板循环方式Type-2: Internal-deflector type or
End-deflector type
陀螺式循环方式或偏转器式循环方式Type-3: End-cap type or End-deflector type
端盖循环方式或偏转器式循环方式

Unit(单位):mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸										Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp	Bolt Hole 安装孔 X	
FBS 01800.5 A	1.8	0.5	0.4	1.95	4°40'	1.5	2.7×1	110 / —	130 / —	19 / —	1	6	14	8.5	7	1.5	8	—	10	2.4	FBS 01800.5 A
FBS 0300.5 A	3	0.5	0.4	3.10	2°56'	2.6	2.7×1	150 / —	220 / —	29 / —	1	8	16	11	8	3	8	—	12	2.4	FBS 0300.5 A
FBS 0301 B	3	1	0.6	3.18	5°43'	2.4	3.7×1	330 / —	440 / —	42 / —	1	9	19	14	11	3	11	—	14	2.9	FBS 0301 B
FBS 0400.5 A	4	0.5	0.4	4.10	2°13'	3.6	2.7×1	160 / —	290 / —	36 / —	1	10	20	13	10	3	12	—	15	2.9	FBS 0400.5 A
FKB 0401 A	4	1	0.6	4.15	4°23'	3.4	1×3	300 / 300	430 / 430	38 / 59	2	9	19	13	10	3	11	13	14	2.9	FKB 0401 A
FBS 0401 A	4	1	0.8	4.15	4°23'	3.3	2.7×1	420 / 270	570 / 290	40 / 34	1	10	20	12	9	3	12	14	15	2.9	FBS 0401 A
FBS 0401 B	4	1	0.8	4.15	4°23'	3.3	3.7×1	560 / 350	790 / 400	54 / 45	1	11	23	17	13	4	13	15	17	3.4	FBS 0401 B
FBS 0402 A	4	2	0.8	4.15	8°43'	3.3	2.7×1	420 / 260	570 / 290	39 / 33	1	11	23	19	15	4	13	15	17	3.4	FBS 0402 A
FEB 0404 A	4	4	0.8	4.2	16°51'	3.3	2.6×2	750 / —	1150 / —	73 / —	3	11	23	17.5	11	3	—	15	17	3.4	FEB 0404 A
FEB 0408 A	4	8	0.6	4.15	31°32'	3.4	1.7×4	590 / —	1110 / —	78 / —	3	11	23	20	12	3	—	15	17	3.4	FEB 0408 A

注1)设计时,请注意使滚珠丝杠轴端的其中一端不超过丝杠轴底径。
如果两个轴端设计得大于底径,则将无法组装螺母。

注2)标准螺母不带密封。
需要密封时,螺母的尺寸将发生变化,详情请垂询本公司。
某些型号的螺母不能安装密封,敬请注意。

注3)表中的刚性值为螺母的刚性值,是在以下条件下,根据轴向弹性位移量计算得出的理论值。
齿侧间隙型:相当于基本额定动负载Ca的30%的轴向负载作用时
预压型:施加了相当于基本额定动负载Ca的5%的预压时
轴向负载及预压量与上述条件不同时,可通过第A823页或第A824的公式计算。

注4)标准螺纹旋向为右旋。
需要左旋时,请垂询本公司。

注5)基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138
		Preload type 预压型
		Backlash type 齿侧间隙型

Note 1)The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.

Note 2)Ball Nut dimension is without seal at the both ends.
If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS.
Some type of Ball Nuts cannot equip with seals, please ask KSS representative.

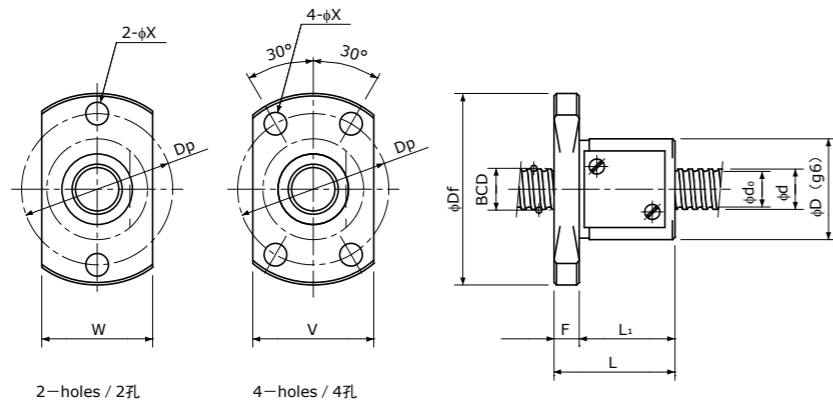
Note 3)The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions.
Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca.
Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca.
For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.

Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
Note 5)Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

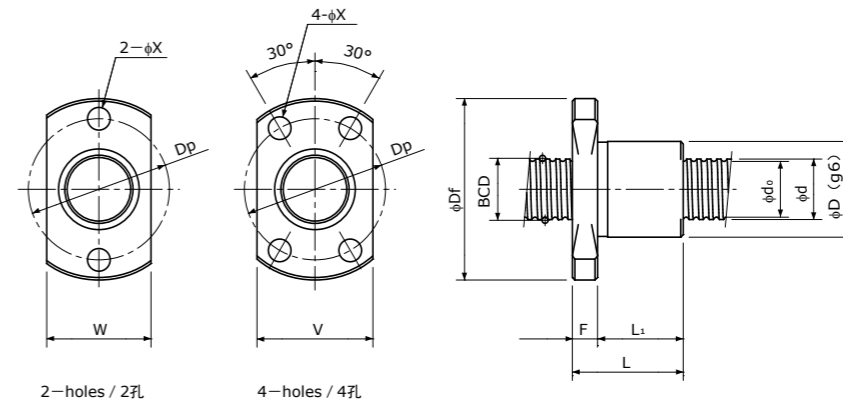
Precision Ball Screws 精密滚珠丝杠

Single Nut with Flange 带法兰单螺母

Backlash type/Preload type 齿侧间隙型/预压型



Type-1: Return-plate type
复式回路板循环方式



Type-2: Internal-deflector type or End-deflector type
陀螺式循环方式或偏转器式循环方式

Unit(单位):mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸									Ball Nut Model number 螺母型号	
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp		Bolt Hole 安装孔 X
FBS 0500.5 A	5	0.5	0.4	5.10	1°47'	4.6	2.7×1	180 / —	370 / —	44 / —	1	11	23	13	10	3	13	—	17	3.4	FBS 0500.5 A
FKB 0501 A	5	1	0.6	5.15	3°32'	4.4	1×3	330 / 330	560 / 560	45 / 70	2	10	20	13	10	3	12	14	15	2.9	FKB 0501 A
FBS 0501 B	5	1	0.8	5.15	3°32'	4.3	3.7×1	630 / 400	1000 / 500	65 / 55	1	12	24	17	13	4	14	15	18	3.4	FBS 0501 B
FBS 0504 A	5	4	0.8	5.15	13°53'	4.3	2.7×1	470 / 300	720 / 360	47 / 39	1	12	24	22	18	4	14	15	18	3.4	FBS 0504 A

- 注1) 设计时, 请注意使滚珠丝杠轴端的其中一端不超过丝杠轴底径。如果两个轴端设计得大于底径, 则将无法组装螺母。
- 注2) 标准螺母不带密封。需要密封时, 螺母的尺寸将发生变化, 详情请垂询本公司。某些型号的螺母不能安装密封, 敬请注意。
- 注3) 表中的刚性值为螺母的刚性值, 是在以下条件下, 根据轴向弹性位移量计算得出的理论值。
齿侧间隙型: 相当于基本额定动负载Ca的30%的轴向负载作用时
预压型: 施加了相当于基本额定动负载Ca的5%的预压时
轴向负载及预压量与上述条件不同时, 可通过第A823页或第A824的公式计算。
- 注4) 标准螺纹旋向为右旋。需要左旋时, 请垂询本公司。
- 注5) 基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

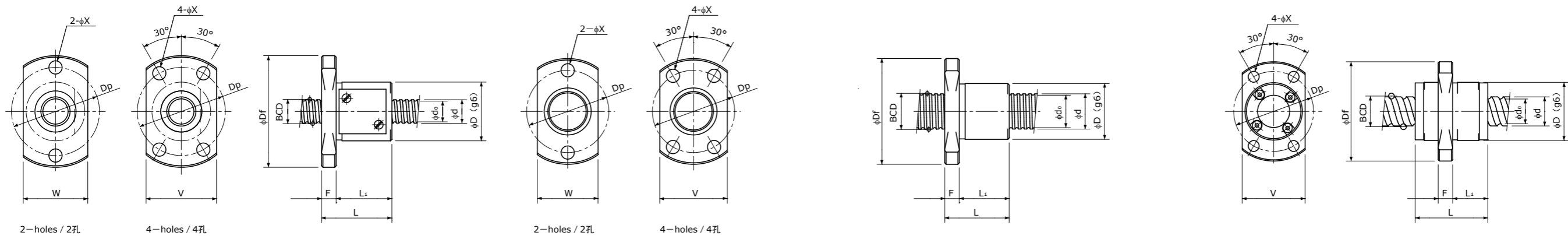
Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138
		Preload type 预压型
		Backlash type 齿侧间隙型

- Note 1) The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.
- Note 2) Ball Nut dimension is without seal at the both ends. If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS. Some type of Ball Nuts cannot equip with seals, please ask KSS representative.
- Note 3) The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions.
Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca.
Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca.
For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.
- Note 4) All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
- Note 5) Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Precision Ball Screws 精密滚珠丝杠

Single Nut with Flange 带法兰单螺母

Backlash type/Preload type 齿侧间隙型/预压型



Type-1: Return-plate type
复式回路板循环方式

Type-2: Internal-deflector type or
End-deflector type
陀螺式循环方式或偏转器式循环方式

Type-3: End-cap type or End-deflector type
端盖循环方式或偏转器式循环方式

Unit(单位):mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 do	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸									Ball Nut Model number 螺母型号		
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L1	F	W	V	Dp		Bolt Hole 安装孔 X	
FBS 0600.5 A	6	0.5	0.4	6.10	1°30'	5.6	2.7×1	190 / —	440 / —	50 / —	1	12	25	13	10	3	14	—	19	3.4	FBS 0600.5 A	
FKB 0601 A	6	1	0.8	6.20	2°56'	5.3	1×3	560 / 560	950 / 950	55 / 86	2	11	23	14.5	11	3.5	13	15	17	17	3.4	FKB 0601 A
FBS 0601 B	6	1	0.8	6.15	2°58'	5.3	3.7×1	680 / 430	1200 / 610	75 / 63	1	13	28	17	13	4	15	17	21.5	3.4	FBS 0601 B	
FBS 0601.5 B	6	1.5	1.0	6.20	4°24'	5.1	3.7×1	980 / 620	1600 / 800	79 / 67	1	14	28	19	15	4	16	17	22	3.4	FBS 0601.5 B	
FBS 0602 A	6	2	1.0	6.20	5°52'	5.1	2.7×1	750 / 470	1200 / 590	58 / 49	1	15	29	17	13	4	17	18	23	3.4	FBS 0602 A	
FBS 0602.5 A	6	2.5	1.0	6.20	7°19'	5.1	2.7×1	750 / 470	1200 / 590	59 / 49	1	15	29	18	14	4	17	18	23	3.4	FBS 0602.5 A	
FEB 0606 A	6	6	1.0	6.30	16°52'	5.2	1.6×2	870 / —	1450 / —	67 / —	3	14	27	17	8	4	—	16	21	3.4	FEB 0606 A	
FEB 0610 A	6	10	1.2	6.30	26°48'	5.0	1.2×2	950 / —	1600 / —	50 / —	3	14	27	23	11.5	4	—	16	21	3.4	FEB 0610 A	
FEB 0612 A	6	12	1.2	6.30	31°13'	5.0	0.7×2	600 / —	950 / —	29 / —	3	14	27	16	8.3	4	—	16	21	3.4	FEB 0612 A	

- 注1)设计时, 请注意使滚珠丝杠轴端的其中一端不超过丝杠轴底径。如果两个轴端设计得大于底径, 则将无法组装螺母。
- 注2)标准螺母不带密封。需要密封时, 螺母的尺寸将发生变化, 详情请垂询本公司。某些型号的螺母不能安装密封, 敬请注意。
- 注3)表中的刚性值为螺母的刚性值, 是在以下条件下, 根据轴向弹性位移量计算得出的理论值。齿侧间隙型: 相当于基本额定动负载Ca的30%的轴向负载作用时; 预压型: 施加了相当于基本额定动负载Ca的5%的预压时; 轴向负载及预压量与上述条件不同时, 可通过第A823页或第A824的公式计算。
- 注4)标准螺纹旋向为右旋。需要左旋时, 请垂询本公司。
- 注5)基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138

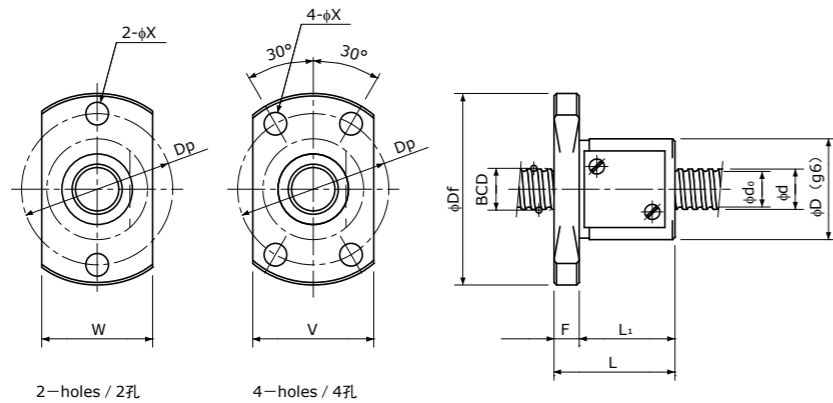
Preload type 预压型
Backlash type 齿侧间隙型

- Note 1)The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.
- Note 2)Ball Nut dimension is without seal at the both ends. If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS. Some type of Ball Nuts cannot equip with seals, please ask KSS representative.
- Note 3)The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions. Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca. Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca. For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.
- Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
- Note 5)Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

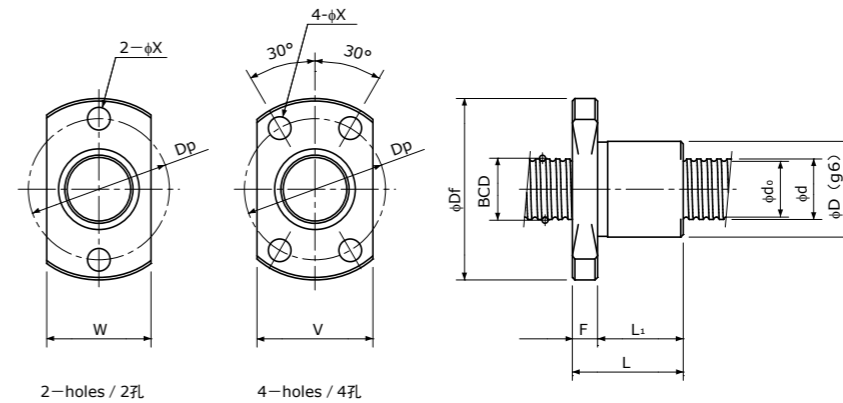
Precision Ball Screws 精密滚珠丝杠

Single Nut with Flange 带法兰单螺母

Backlash type/Preload type 齿侧间隙型/预压型



Type-1: Return-plate type
复式回路板循环方式



Type-2: Internal-deflector type or End-deflector type
陀螺式循环方式或偏转器式循环方式

Unit(单位):mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸										Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp	Bolt Hole 安装孔 X	
FBS 0800.5 A	8	0.5	0.4	8.10	1°08'	7.6	2.7×1	220 / —	590 / —	64 / —	1	14	27	13	10	3	16	—	21	3.4	FBS 0800.5 A
FKB 0801 A	8	1	0.8	8.20	2°13'	7.3	1×3	650 / 650	1300 / 1300	70 / 109	2	13	26	15	11	4	15	17	20	3.4	FKB 0801 A
FBS 0801 B	8	1	0.8	8.15	2°15'	7.3	3.7×1	780 / 490	1650 / 820	95 / 80	1	16	30	17	13	4	18	18	24	3.4	FBS 0801 B
FKB 0801.5 A	8	1.5	1.0	8.30	3°18'	7.2	1×3	890 / 890	1650 / 1650	73 / 113	2	15	28	20	16	4	17	19	22	3.4	FKB 0801.5 A
FBS 0801.5 B	8	1.5	1.0	8.20	3°20'	7.1	3.7×1	1100 / 700	2200 / 1100	99 / 83	1	16	30	19	15	4	18	18	24	3.4	FBS 0801.5 B
FKB 0802 A	8	2	1.2	8.30	4°23'	7.0	1×3	1300 / 1300	2300 / 2300	77 / 121	2	15	28	18	14	4	17	19	22	3.4	FKB 0802 A
FBS 0802 B(1)	8	2	1.0	8.20	4°26'	7.1	3.7×1	1100 / 700	2200 / 1100	99 / 83	1	16	30	21	17	4	18	18	24	3.4	FBS 0802 B(1)
FBS 0802 B(2)	8	2	1.5875	8.30	4°23'	6.6	3.7×1	2400 / 1550	4100 / 2100	111 / 94	1	20	38	24	19	5	22	23	30	4.5	FBS 0802 B(2)

- 注1)设计时, 请注意使滚珠丝杠轴端的其中一端不超过丝杠轴底径。如果两个轴端设计得大于底径, 则将无法组装螺母。
- 注2)标准螺母不带密封。需要密封时, 螺母的尺寸将发生变化, 详情请垂询本公司。某些型号的螺母不能安装密封, 敬请注意。
- 注3)表中的刚性值为螺母的刚性值, 是在以下条件下, 根据轴向弹性位移量计算得出的理论值。
齿侧间隙型: 相当于基本额定动负载Ca的30%的轴向负载作用时
预压型: 施加了相当于基本额定动负载Ca的5%的预压时
轴向负载及预压量与上述条件不同时, 可通过第A823页或第A824的公式计算。
- 注4)标准螺纹旋向为右旋。需要左旋时, 请垂询本公司。
- 注5)基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138

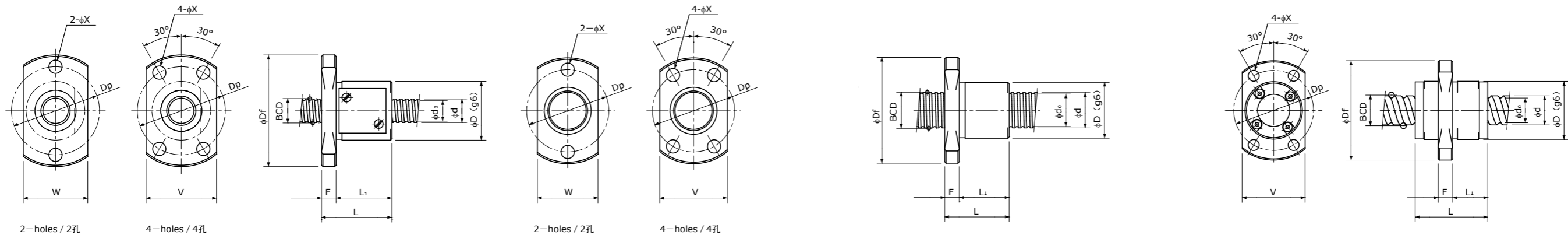
Preload type 预压型
Backlash type 齿侧间隙型

- Note 1)The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.
- Note 2)Ball Nut dimension is without seal at the both ends. If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS. Some type of Ball Nuts cannot equip with seals, please ask KSS representative.
- Note 3)The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions.
Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca.
Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca.
For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.
- Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
- Note 5)Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Precision Ball Screws 精密滚珠丝杠

Single Nut with Flange 带法兰单螺母

Backlash type/Preload type 齿侧间隙型/预压型



Type-1: Return-plate type
复式回路板循环方式

Type-2: Internal-deflector type or
End-deflector type
陀螺式循环方式或偏转器式循环方式

Type-3: End-cap type or End-deflector type
端盖循环方式或偏转器式循环方式

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸										Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp	Bolt Hole 安装孔 X	
FDB 0802.5 A	8	2.5	1.5875	8.00	5°41'	6.3	2.7×1	1850 / —	3000 / —	80 / —	2	16	29	16	12	4	—	18	23	3.4	FDB 0802.5 A
FBS 0802.5 B	8	2.5	1.5875	8.30	5°29'	6.6	3.7×1	2400 / 1550	4100 / 2100	111 / 93	1	20	38	26	21	5	22	23	30	4.5	FBS 0802.5 B
FBS 0803 A	8	3	2.0	8.30	6°34'	6.2	2.7×1	2600 / 1650	4200 / 2100	85 / 70	1	20	38	25	20	5	22	23	30	4.5	FBS 0803 A
FBS 0804 A	8	4	2.0	8.30	8°43'	6.2	2.7×1	2600 / 1650	4200 / 2100	84 / 70	1	21	39	28	23	5	23	23	31	4.5	FBS 0804 A
FBS 0805 A	8	5	1.5875	8.30	10°51'	6.6	2.7×1	1850 / 1150	3000 / 1500	82 / 67	1	18	31	28	24	4	20	20	25	3.4	FBS 0805 A
FEB 0808 A	8	8	1.5875	8.40	16°52'	6.7	1.6×2	2200 / —	3800 / —	95 / —	3	18	31	20	10	4	—	20	25	3.4	FEB 0808 A
FEB 0810 A	8	10	1.5875	8.40	20°45'	6.7	1.6×2	2200 / —	3900 / —	92 / —	3	18	31	24	13	4	—	20	25	3.4	FEB 0810 A
FEB 0812 A	8	12	1.5875	8.40	24°27'	6.7	1.6×2	2200 / —	4000 / —	90 / —	3	18	31	27	17	4	—	20	25	3.4	FEB 0812 A

Unit(单位):mm

- 注1)设计时, 请注意使滚珠丝杠轴端的其中一端不超过丝杠轴底径。如果两个轴端设计得大于底径, 则将无法组装螺母。
- 注2)标准螺母不带密封。需要密封时, 螺母的尺寸将发生变化, 详情请垂询本公司。某些型号的螺母不能安装密封, 敬请注意。
- 注3)表中的刚性值为螺母的刚性值, 是在以下条件下, 根据轴向弹性位移量计算得出的理论值。齿侧间隙型: 相当于基本额定动负载Ca的30%的轴向负载作用时; 预压型: 施加了相当于基本额定动负载Ca的5%的预压时; 轴向负载及预压量与上述条件不同时, 可通过第A823页或第A824的公式计算。
- 注4)标准螺纹旋向为右旋。需要左旋时, 请垂询本公司。
- 注5)基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138

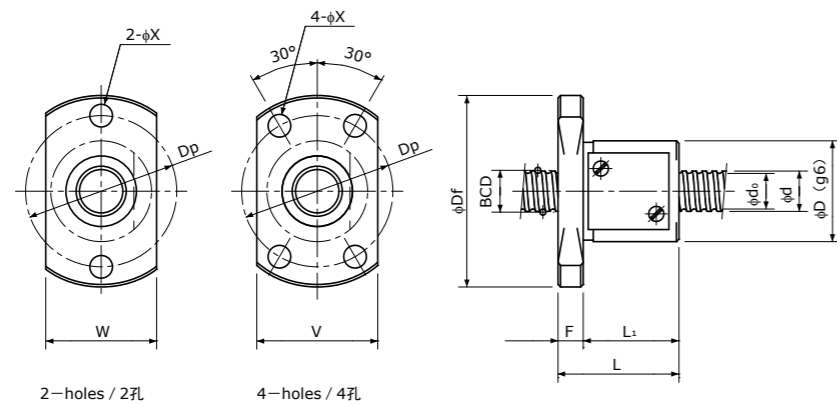
Preload type 预压型
Backlash type 齿侧间隙型

- Note 1)The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.
- Note 2)Ball Nut dimension is without seal at the both ends. If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS. Some type of Ball Nuts cannot equip with seals, please ask KSS representative.
- Note 3)The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions. Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca. Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca. For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.
- Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
- Note 5)Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

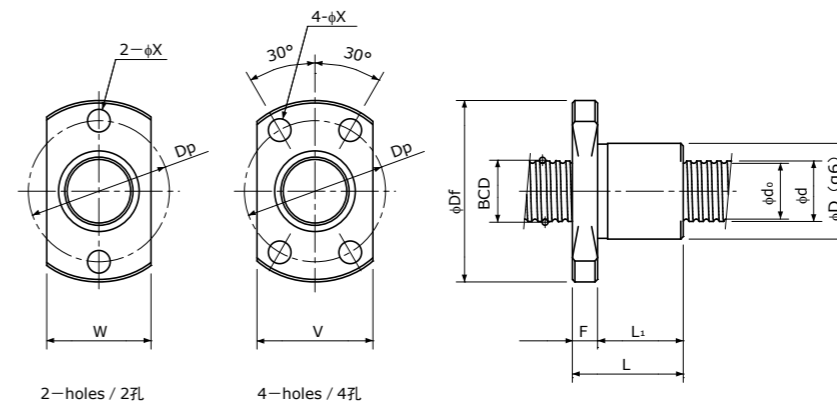
Precision Ball Screws 精密滚珠丝杠

Single Nut with Flange 带法兰单螺母

Backlash type/Preload type 齿侧间隙型/预压型



Type-1: Return-plate type
复式回路板循环方式



Type-2: Internal-deflector type or End-deflector type
陀螺式循环方式或偏转器式循环方式

Unit(单位):mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸										Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp	Bolt Hole 安装孔 X	
FKB 1001 A	10	1	0.8	10.20	1°47'	9.3	1×3	720 / 720	1650 / 1650	84 / 131	2	15	28	15	11	4	17	19	22	3.4	FKB 1001 A
FBS 1001 B	10	1	0.8	10.15	1°48'	9.3	3.7×1	840 / 530	2000 / 1000	113 / 95	1	19	37	18	13	5	21	22	29	4.5	FBS 1001 B
FKB 1001.5 A	10	1.5	1.0	10.30	2°39'	9.2	1×3	990 / 990	2100 / 2100	87 / 136	2	17	34	21	16	5	19	21	26	4.5	FKB 1001.5 A
FBS 1001.5 B	10	1.5	1.0	10.20	2°41'	9.1	3.7×1	1250 / 790	2800 / 1400	120 / 101	1	19	37	20	15	5	21	22	29	4.5	FBS 1001.5 B
FKB 1002 A	10	2	1.2	10.30	3°32'	9.0	1×3	1450 / 1450	3000 / 3000	93 / 144	2	17	34	19	14	5	19	21	26	4.5	FKB 1002 A
FBS 1002 B	10	2	1.5875	10.30	3°32'	8.6	3.7×1	2700 / 1750	5300 / 2700	134 / 112	1	23	41	24	19	5	25	25	33	4.5	FBS 1002 B
FKB 1002.5 A	10	2.5	1.5875	10.40	4°23'	8.7	1×3	2100 / 2100	3800 / 3800	96 / 150	2	18	35	21	16	5	20	22	27	4.5	FKB 1002.5 A
FBS 1002.5 B	10	2.5	1.5875	10.30	4°25'	8.6	3.7×1	2700 / 1750	5300 / 2700	133 / 112	1	24	44	27	21	6	26	27	35	5.5	FBS 1002.5 B

- 注1)设计时, 请注意使滚珠丝杠轴端的其中一端不超过丝杠轴底径。如果两个轴端设计得大于底径, 则将无法组装螺母。
- 注2)标准螺母不带密封。需要密封时, 螺母的尺寸将发生变化, 详情请垂询本公司。某些型号的螺母不能安装密封, 敬请注意。
- 注3)表中的刚性值为螺母的刚性值, 是在以下条件下, 根据轴向弹性位移量计算得出的理论值。
齿侧间隙型: 相当于基本额定动负载Ca的30%的轴向负载作用时
预压型: 施加了相当于基本额定动负载Ca的5%的预压时
轴向负载及预压量与上述条件不同时, 可通过第A823页或第A824的公式计算。
- 注4)标准螺纹旋向为右旋。需要左旋时, 请垂询本公司。
- 注5)基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138

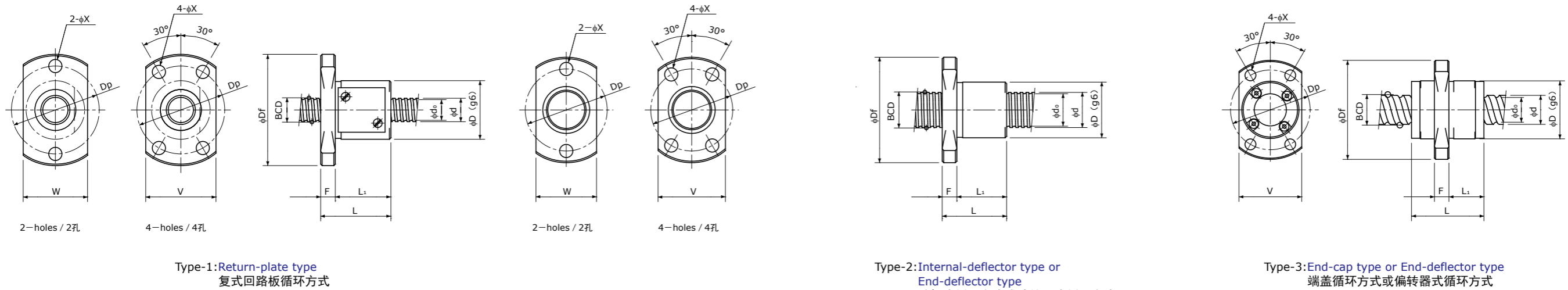
Preload type 预压型
Backlash type 齿侧间隙型

- Note 1)The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.
- Note 2)Ball Nut dimension is without seal at the both ends. If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS. Some type of Ball Nuts cannot equip with seals, please ask KSS representative.
- Note 3)The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions.
Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca.
Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca.
For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.
- Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
- Note 5)Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Precision Ball Screws 精密滚珠丝杠

Single Nut with Flange 带法兰单螺母

Backlash type/Preload type 齿侧间隙型/预压型



Type-1: Return-plate type
复式回路板循环方式

Type-2: Internal-deflector type or
End-deflector type
陀螺式循环方式或偏转器式循环方式

Type-3: End-cap type or End-deflector type
端盖循环方式或偏转器式循环方式

Unit(单位): mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸										Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp	Bolt Hole 安装孔 X	
FBS 1003 B	10	3	2.0	10.30	5°18'	8.2	3.7×1	3900 / 2500	7200 / 3600	140 / 118	1	24	44	30	24	6	26	27	35	5.5	FBS 1003 B
FBS 1004 A	10	4	2.0	10.30	7°03'	8.2	2.7×1	3000 / 1800	5200 / 2600	104 / 86	1	24	44	29	23	6	26	27	35	5.5	FBS 1004 A
FDB 1005 A	10	5	2.0	10.30	8°47'	8.2	2.7×1	3000 / —	5200 / —	103 / —	2	23	40	26	21	5	—	25	32	4.5	FDB 1005 A
FBS 1005 A	10	5	2.0	10.30	8°47'	8.2	2.7×1	3000 / 1800	5200 / 2600	103 / 85	1	24	44	34	28	6	26	27	35	5.5	FBS 1005 A
FEB 1010 A	10	10	2.0	10.50	16°52'	8.4	1.6×2	3300 / —	5900 / —	117 / —	3	23	40	24	13	5	—	25	32	4.5	FEB 1010 A
FEB 1015 A	10	15	2.0	10.50	24°27'	8.4	1.6×2	3300 / —	6400 / —	110 / —	3	23	40	33	22	5	—	25	32	4.5	FEB 1015 A
FEB 1020 A	10	20	1.5875	10.40	31°28'	8.7	0.7×4	2100 / —	4000 / —	88 / —	3	20	37	23	13	5	—	22	29	4.5	FEB 1020 A
FEB 1030 A	10	30	1.5875	10.40	42°33'	8.7	0.7×4	2100 / —	4000 / —	76 / —	3	20	37	31.5	21.7	5	—	22	29	4.5	FEB 1030 A

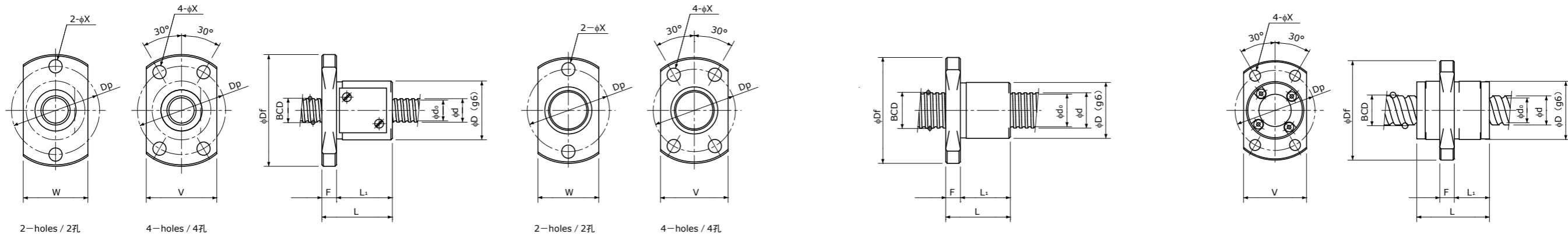
- 注1) 设计时, 请注意使滚珠丝杠轴端的其中一端不超过丝杠轴底径。如果两个轴端设计得大于底径, 则将无法组装螺母。
- 注2) 标准螺母不带密封。需要密封时, 螺母的尺寸将发生变化, 详情请垂询本公司。某些型号的螺母不能安装密封, 敬请注意。
- 注3) 表中的刚性值为螺母的刚性值, 是在以下条件下, 根据轴向弹性位移量计算得出的理论值。齿侧间隙型: 相当于基本额定动负载Ca的30%的轴向负载作用时; 预压型: 施加了相当于基本额定动负载Ca的5%的预压时; 轴向负载及预压量与上述条件不同时, 可通过第A823页或第A824页的公式计算。
- 注4) 标准螺纹旋向为右旋。需要左旋时, 请垂询本公司。
- 注5) 基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138

Preload type 预压型
Backlash type 齿侧间隙型

- Note 1) The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.
- Note 2) Ball Nut dimension is without seal at the both ends. If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS. Some type of Ball Nuts cannot equip with seals, please ask KSS representative.
- Note 3) The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions. Backlash type; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca. Preload type; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca. For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.
- Note 4) All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
- Note 5) Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Precision Ball Screws 精密滚珠丝杠

Single Nut with Flange
带法兰单螺母Backlash type/Preload type
齿侧间隙型/预压型Type-1: Return-plate type
复式回路板循环方式Type-2: Internal-deflector type or
End-deflector type
陀螺式循环方式或偏转器式循环方式Type-3: End-cap type or End-deflector type
端盖循环方式或偏转器式循环方式

Unit(单位): mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸										Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp	Bolt Hole 安装孔 X	
FKB 1201 A	12	1	0.8	12.20	1°30'	11.3	1×3	780 / 780	2000 / 2000	97 / 152	2	17	34	16	11	5	19	21	26	4.5	FKB 1201 A
FBS 1201 B	12	1	0.8	12.15	1°30'	11.3	3.7×1	910 / 570	2400 / 1200	131 / 110	1	22	40	18	13	5	24	24	32	4.5	FBS 1201 B
FKB 1202 A	12	2	1.2	12.30	2°58'	11.0	1×3	1600 / 1600	3700 / 3700	109 / 169	2	19	36	19	14	5	21	23	28	4.5	FKB 1202 A
FBS 1202 B	12	2	1.5875	12.30	2°58'	10.6	3.7×1	3000 / 1900	6400 / 3200	156 / 132	1	25	45	25	19	6	27	27	36	5.5	FBS 1202 B
FKB 1202.5 A	12	2.5	1.5875	12.40	3°41'	10.7	1×3	2300 / 2300	4700 / 4700	112 / 174	2	20	37	21	16	5	22	24	29	4.5	FKB 1202.5 A
FBS 1202.5 B	12	2.5	1.5875	12.30	3°42'	10.6	3.7×1	3000 / 1850	6400 / 3200	156 / 130	1	26	46	27	21	6	28	28	37	5.5	FBS 1202.5 B
FKB 1203 A	12	3	2.0	12.50	4°22'	10.4	1×3	3100 / 3100	5700 / 5700	115 / 179	2	22	41	32	26	6	24	26	32	5.5	FKB 1203 A
FBS 1203 B	12	3	2.0	12.30	4°26'	10.2	3.7×1	4300 / 2800	8700 / 4300	162 / 137	1	28	48	30	24	6	30	30	39	5.5	FBS 1203 B
FBS 1204 B	12	4	2.381	12.30	5°55'	9.8	3.7×1	5400 / 3400	10200 / 5100	165 / 139	1	28	48	33	27	6	30	30	39	5.5	FBS 1204 B
FBS 1205 A	12	5	2.381	12.30	7°22'	9.8	2.7×1	4100 / 2500	7400 / 3700	122 / 101	1	28	48	33	27	6	30	30	39	5.5	FBS 1205 A

注1) 设计时, 请注意使滚珠丝杠轴端的其中一端不超过丝杠轴底径。
如果两个轴端设计得大于底径, 则将无法组装螺母。

注2) 标准螺母不带密封。
需要密封时, 螺母的尺寸将发生变化, 详情请垂询本公司。
某些型号的螺母不能安装密封, 敬请注意。

注3) 表中的刚性值为螺母的刚性值, 是在以下条件下, 根据轴向弹性位移量计算得出的理论值。
齿侧间隙型: 相当于基本额定动负载Ca的30%的轴向负载作用时
预压型: 施加了相当于基本额定动负载Ca的5%的预压时
轴向负载及预压量与上述条件不同时, 可通过第A823页或第A824的公式计算。

注4) 标准螺纹旋向为右旋。
需要左旋时, 请垂询本公司。

注5) 基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138

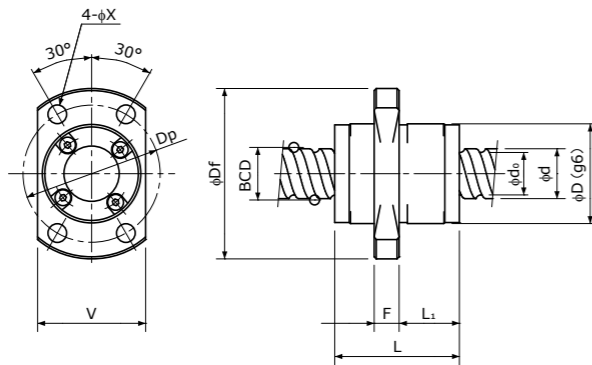
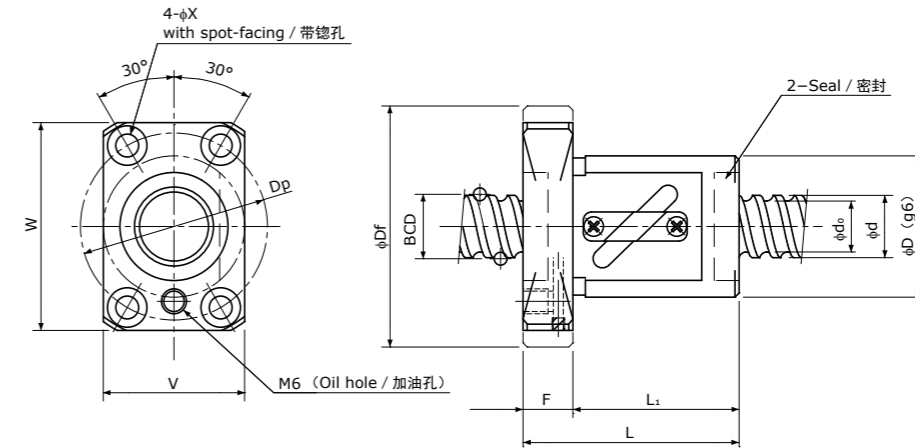
Preload type
预压型
Backlash type
齿侧间隙型

Note 1) The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.

Note 2) Ball Nut dimension is without seal at the both ends.
If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS.
Some type of Ball Nuts cannot equip with seals, please ask KSS representative.

Note 3) The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions.
Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca.
Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca.
For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.

Note 4) All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
Note 5) Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Single Nut with Flange
带法兰单螺母Backlash type/Preload type
齿侧间隙型/预压型Type-3: End-cap type or End-deflector type
端盖循环方式或偏转器式循环方式Type-4: Return-tube type
回路管循环方式

Unit(单位):mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸										Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp	Bolt Hole 安装孔 X	
FEB 1210 A	12	10	2.381	12.65	14°07'	10.2	1.7×2	5100 / —	9800 / —	152 / —	3	24	41	30	14.5	6	—	26	33	4.5	FEB 1210 A
FBS 1210 T	12	10	2.381	12.65	14°07'	10.2	2.5×1	3800 / 2350	7100 / 3350	113 / 93	4	30	50	50	40	10	45	32	40	4.5	FBS 1210 T
FEB 1312 A	13	12	2.381	13.50	15°48'	11.0	1.6×2	5000 / —	9900 / —	151 / —	3	28	45	30	17	5	—	30	37	4.5	FEB 1312 A
FEB 1315 A	13	15	2.381	13.50	19°29'	11.0	1.6×2	5000 / —	10300 / —	147 / —	3	28	45	35	22	5	—	30	37	4.5	FEB 1315 A
FEB 1320 A	13	20	2.381	13.50	25°15'	11.0	1.6×2	5000 / —	10700 / —	142 / —	3	28	45	43	29	5	—	30	37	4.5	FEB 1320 A

注1) 设计时, 请注意使滚珠丝杠轴端的其中一端不超过丝杠轴底径。
如果两个轴端设计得大于底径, 则将无法组装螺母。

注2) 标准螺母不带密封。
需要密封时, 螺母的尺寸将发生变化, 详情请垂询本公司。
某些型号的螺母不能安装密封, 敬请注意。

注3) 表中的刚性值为螺母的刚性值, 是在以下条件下, 根据轴向弹性位移量计算得出的理论值。
齿侧间隙型: 相当于基本额定动负载Ca的30%的轴向负载作用时
预压型: 施加了相当于基本额定动负载Ca的5%的预压时
轴向负载及预压量与上述条件不同时, 可通过第A823页或第A824的公式计算。

注4) 标准螺纹旋向为右旋。
需要左旋时, 请垂询本公司。

注5) 基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138
		Preload type 预压型
		Backlash type 齿侧间隙型

Note 1) The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.

Note 2) Ball Nut dimension is without seal at the both ends.

If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS. Some type of Ball Nuts cannot equip with seals, please ask KSS representative.

Note 3) The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions.
Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca.
Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca.
For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.

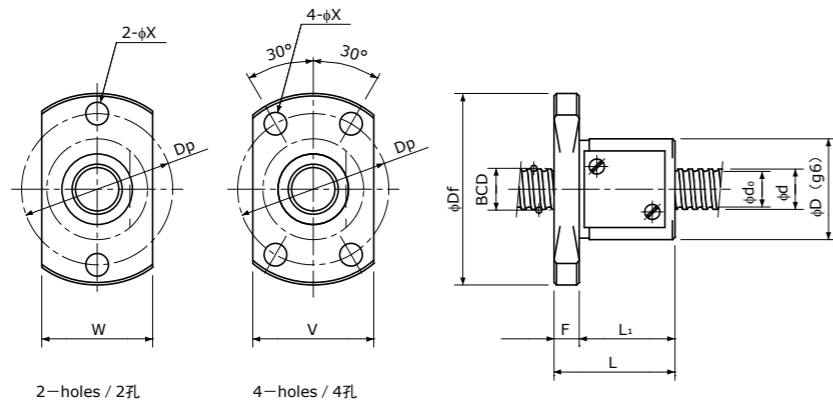
Note 4) All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.

Note 5) Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

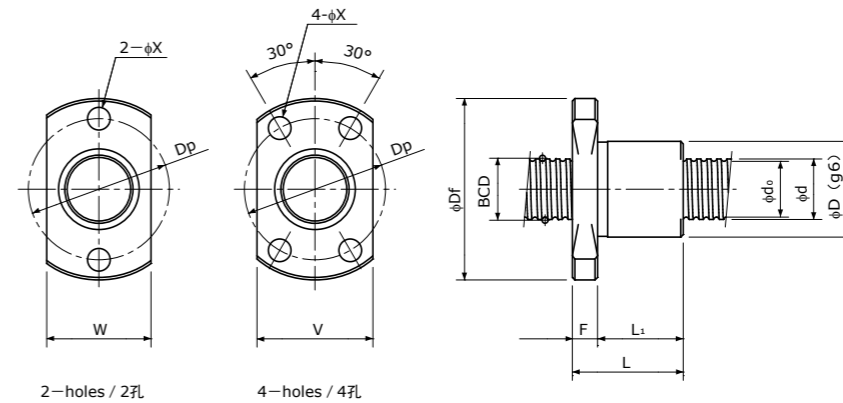
Precision Ball Screws 精密滚珠丝杠

Single Nut with Flange 带法兰单螺母

Backlash type/Preload type 齿侧间隙型/预压型



Type-1: Return-plate type
复式回路板循环方式



Type-2: Internal-deflector type or End-deflector type
陀螺式循环方式或偏转器式循环方式

Unit(单位):mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸									Ball Nut Model number 螺母型号	
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp		Bolt Hole 安装孔 X
FBS 1401 B	14	1	0.8	14.15	1°17'	13.3	3.7×1	960 / 610	2900 / 1450	148 / 124	1	26	46	21	15	6	28	28	37	5.5	FBS 1401 B
FKB 1402 A	14	2	1.2	14.30	2°33'	13.0	1×3	1700 / 1700	4300 / 4300	122 / 190	2	21	40	20	14	6	23	26	31	5.5	FKB 1402 A
FBS 1402 B	14	2	1.5875	14.30	2°33'	12.6	3.7×1	3200 / 2000	7500 / 3800	176 / 148	1	26	46	25	19	6	28	28	37	5.5	FBS 1402 B
FKB 1402.5 A	14	2.5	1.5875	14.40	3°10'	12.7	1×3	2500 / 2500	5600 / 5600	127 / 197	2	22	41	22	16	6	24	26	32	5.5	FKB 1402.5 A
FBS 1402.5 B	14	2.5	1.5875	14.30	3°11'	12.6	3.7×1	3200 / 2000	7500 / 3700	176 / 148	1	28	48	27	21	6	30	30	39	5.5	FBS 1402.5 B
FKB 1403 A	14	3	2.0	14.50	3°46'	12.4	1×3	3400 / 3400	6800 / 6800	131 / 204	2	24	43	32	26	6	26	27	34	5.5	FKB 1403 A
FBS 1403 B	14	3	2.0	14.30	3°49'	12.2	3.7×1	4600 / 2900	10100 / 5000	184 / 154	1	30	51	30	24	6	32	32	42	5.5	FBS 1403 B
FKB 1404 A	14	4	2.381	14.65	4°58'	12.2	1×3	4500 / 4500	8600 / 8600	136 / 212	2	26	45	29	23	6	28	28	36	5.5	FKB 1404 A
FBS 1404 B	14	4	2.381	14.30	5°05'	11.8	3.7×1	5700 / 3600	11600 / 5800	187 / 157	1	30	51	33	27	6	32	32	42	5.5	FBS 1404 B
FBS 1405 B	14	5	2.381	14.30	6°21'	11.8	3.7×1	5700 / 3600	11600 / 5800	186 / 157	1	30	51	39	33	6	32	32	42	5.5	FBS 1405 B

注1)设计时,请注意使滚珠丝杠轴端的其中一端不超过丝杠轴底径。
如果两个轴端设计得大于底径,则将无法组装螺母。

注2)标准螺母不带密封。
需要密封时,螺母的尺寸将发生变化,详情请垂询本公司。
某些型号的螺母不能安装密封,敬请注意。

注3)表中的刚性值为螺母的刚性值,是在以下条件下,根据轴向弹性位移量计算得出的理论值。
齿侧间隙型:相当于基本额定动负载Ca的30%的轴向负载作用时
预压型:施加了相当于基本额定动负载Ca的5%的预压时
轴向负载及预压量与上述条件不同时,可通过第A823页或第A824的公式计算。

注4)标准螺纹旋向为右旋。
需要左旋时,请垂询本公司。

注5)基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138
		Preload type 预压型
		Backlash type 齿侧间隙型

Note 1)The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.

Note 2)Ball Nut dimension is without seal at the both ends.
If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS.
Some type of Ball Nuts cannot equip with seals, please ask KSS representative.

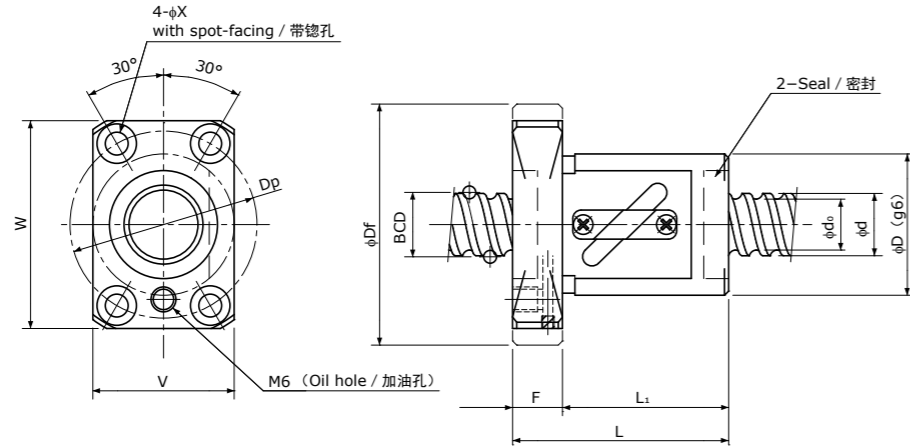
Note 3)The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions.
Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca.
Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca.
For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.

Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
Note 5)Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

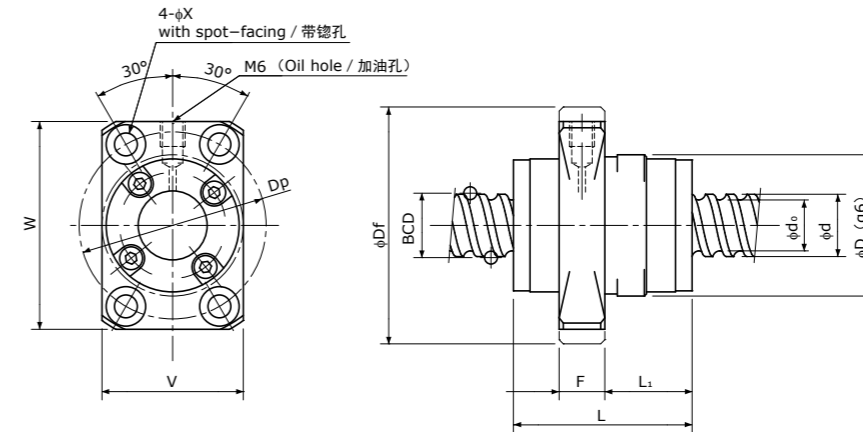
Precision Ball Screws 精密滚珠丝杠

Single Nut with Flange 带法兰单螺母

Backlash type/Preload type
齿侧间隙型/预压型



Type-4: Return-tube type
回路管循环方式



Type-5: End-deflector type
偏转器式循环方式

Unit(单位): mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸										Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp	Bolt Hole 安装孔 X	
FBS 1504 T	15	4	2.381	15.50	4°42'	13.0	2.5×1	4100 / 2580	8550 / 4300	136 / 112	4	32	56	41	31	10	48	32	43	5.5	FBS 1504 T
FEB 1505 A	15	5	3.175	15.50	5°41'	12.2	3.7×1	8900 / —	17000 / —	208 / —	5	34	57	33	16	11	50	34	45	5.5	FEB 1505 A
FBS 1505 T	15	5	3.175	15.80	5°45'	12.4	2.5×1	6900 / 4350	12500 / 6250	148 / 122	4	34	58	44	34	10	50	34	45	5.5	FBS 1505 T
FEB 1510 A	15	10	3.175	15.50	11°36'	12.2	2.7×2	12000 / —	25000 / —	289 / —	5	34	57	43	21	11	50	34	45	5.5	FEB 1510 A
FBS 1510 T	15	10	3.175	15.80	11°23'	12.4	1.5×1	4400 / 2540	7900 / 3450	87 / 69	4	34	58	52	40	12	50	34	45	6.0	FBS 1510 T
FEB 1520 A	15	20	3.175	15.75	22°01'	12.4	1.7×2	8000 / —	16000 / —	178 / —	5	34	57	52	28.5	11	50	34	45	5.5	FEB 1520 A
FBS 1520 T	15	20	3.175	15.80	21°56'	12.4	1.5×1	4400 / 2540	7900 / 3450	84 / 67	4	34	58	62	50	12	50	34	45	6.0	FBS 1520 T
FEB 1530 A	15	30	3.175	15.75	31°14'	12.4	1.7×2	8000 / —	16000 / —	163 / —	5	34	57	71	45.5	11	50	34	45	5.5	FEB 1530 A

- 注1) 设计时, 请注意使滚珠丝杠轴端的其中一端不超过丝杠轴底径。如果两个轴端设计得大于底径, 则将无法组装螺母。
- 注2) 标准螺母不带密封。需要密封时, 螺母的尺寸将发生变化, 详情请垂询本公司。某些型号的螺母不能安装密封, 敬请注意。
- 注3) 表中的刚性值为螺母的刚性值, 是在以下条件下, 根据轴向弹性位移量计算得出的理论值。齿侧间隙型: 相当于基本额定动负载Ca的30%的轴向负载作用时; 预压型: 施加了相当于基本额定动负载Ca的5%的预压时; 轴向负载及预压量与上述条件不同时, 可通过第A823页或第A824页的公式计算。
- 注4) 标准螺纹旋向为右旋。需要左旋时, 请垂询本公司。
- 注5) 基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138

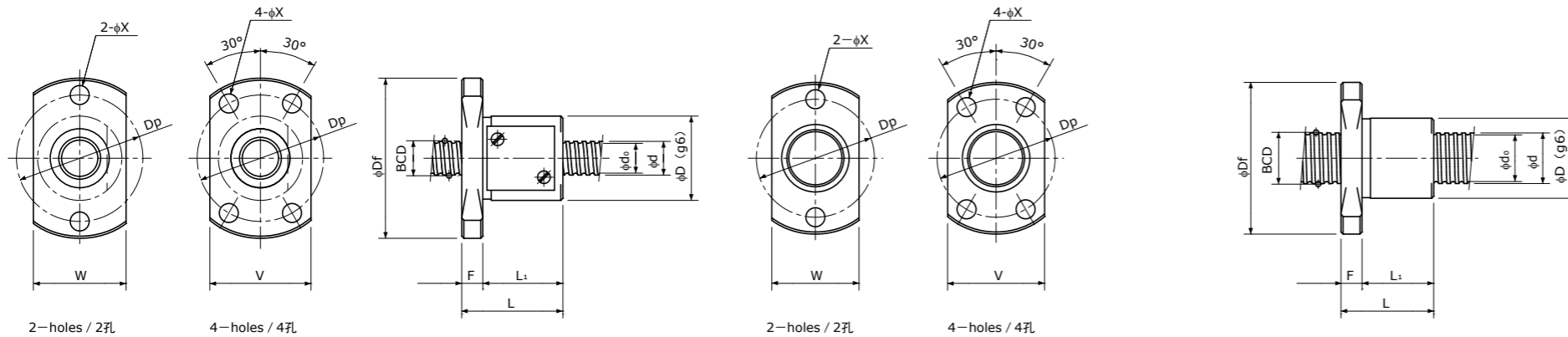
Preload type 预压型
Backlash type 齿侧间隙型

- Note 1) The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.
- Note 2) Ball Nut dimension is without seal at the both ends. If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS. Some type of Ball Nuts cannot equip with seals, please ask KSS representative.
- Note 3) The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions. Backlash type; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca. Preload type; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca. For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.
- Note 4) All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
- Note 5) Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Precision Ball Screws 精密滚珠丝杠

Single Nut with Flange 带法兰单螺母

Backlash type/Preload type 齿侧间隙型/预压型



Type-1: Return-plate type
复式回路板循环方式

Type-2: Internal-deflector type or
End-deflector type
陀螺式循环方式或偏转器式循环方式

Unit(单位): mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸										Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp	Bolt Hole 安装孔 X	
FBS 1601 B	16	1	0.8	16.15	1°08'	15.3	3.7×1	1000 / 640	3300 / 1650	164 / 138	1	28	48	21	15	6	30	30	39	5.5	FBS 1601 B
FKB 1602 A	16	2	1.2	16.30	2°14'	15.0	1×3	1850 / 1850	5000 / 5000	137 / 213	2	24	43	20	14	6	26	27	34	5.5	FKB 1602 A
FBS 1602 B	16	2	1.5875	16.30	2°14'	14.6	3.7×1	3400 / 2100	8600 / 4300	197 / 163	1	28	48	25	19	6	30	30	39	5.5	FBS 1602 B
FKB 1603 A	16	3	2.0	16.50	3°19'	14.4	1×3	3600 / 3600	8000 / 8000	146 / 227	2	26	45	32	26	6	28	28	36	5.5	FKB 1603 A
FBS 1603 B	16	3	2.0	16.30	3°21'	14.2	3.7×1	4900 / 3100	11600 / 5800	205 / 172	1	32	53	30	24	6	34	34	44	5.5	FBS 1603 B
FKB 1604 A	16	4	2.381	16.65	4°22'	13.9	1×3	4800 / 4800	10000 / 10000	152 / 237	2	28	47	29	23	6	30	30	38	5.5	FKB 1604 A
FBS 1604 B	16	4	2.381	16.30	4°28'	13.8	3.7×1	6200 / 3900	13600 / 6800	209 / 174	1	34	54	34	28	6	36	36	45	5.5	FBS 1604 B
FBS 1605 B	16	5	3.175	16.50	5°31'	13.2	3.7×1	9100 / 5700	18200 / 9100	217 / 182	1	38	57	42	36	6	40	40	48	5.5	FBS 1605 B

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- 注3) 表中的刚性值为螺母的刚性值, 是在以下条件下, 根据轴向弹性位移量计算得出的理论值。齿侧间隙型: 相当于基本额定动负载Ca的30%的轴向负载作用时; 预压型: 施加了相当于基本额定动负载Ca的5%的预压时; 轴向负载及预压量与上述条件不同时, 可通过第A823页或第A824的公式计算。
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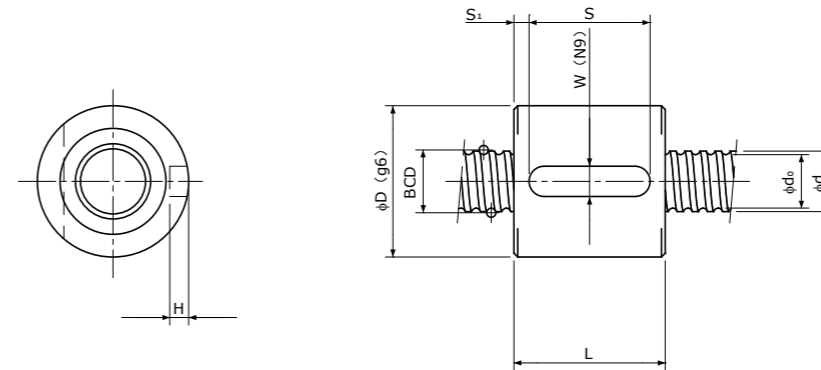
Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138

Preload type 预压型
Backlash type 齿侧间隙型

- Note 1) The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.
- Note 2) Ball Nut dimension is without seal at the both ends. If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS. Some type of Ball Nuts cannot equip with seals, please ask KSS representative.
- Note 3) The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions. Backlash type; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca. Preload type; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca. For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.
- Note 4) All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
- Note 5) Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Sleeve type Single Nut
套筒型单螺母

Backlash type/Preload type
齿侧间隙型/预压型



Unit(单位):mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸						Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		D	L	W	H	S	S ₁	
BS 0301 B	3	1	0.6	3.18	5°43'	2.4	3.7×1	330 / —	440 / —	42 / —	9	12	2	1.2	8	2	BS 0301 B
BS 0401 A	4	1	0.8	4.15	4°23'	3.3	2.7×1	420 / 270	570 / 290	40 / 34	10	12	2	1.2	8	2	BS 0401 A
BS 0401 B	4	1	0.8	4.15	4°23'	3.3	3.7×1	560 / 350	790 / 400	54 / 45	11	14	3	1.8	8	3	BS 0401 B
BS 0402 A	4	2	0.8	4.15	8°43'	3.3	2.7×1	420 / 260	570 / 290	39 / 33	11	16	3	1.8	8	4	BS 0402 A
BS 0501 B	5	1	0.8	5.15	3°32'	4.3	3.7×1	630 / 400	1000 / 500	65 / 55	12	14	3	1.8	8	3	BS 0501 B
BS 0504 A	5	4	0.8	5.15	13°53'	4.3	2.7×1	470 / 300	720 / 360	47 / 39	12	22	3	1.8	12	5	BS 0504 A
BS 0601 B	6	1	0.8	6.15	2°58'	5.3	3.7×1	680 / 430	1200 / 610	75 / 63	13	14	3	1.8	10	2	BS 0601 B
BS 0601.5 B	6	1.5	1.0	6.20	4°24'	5.1	3.7×1	980 / 620	1600 / 800	79 / 67	14	16	3	1.8	10	3	BS 0601.5 B
BS 0602 A	6	2	1.0	6.20	5°52'	5.1	2.7×1	750 / 470	1200 / 590	58 / 49	15	15	3	1.8	10	2.5	BS 0602 A
BS 0602.5 A	6	2.5	1.0	6.20	7°19'	5.1	2.7×1	750 / 470	1200 / 590	59 / 49	15	16	3	1.8	10	3	BS 0602.5 A

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- 注2)标准螺母不带密封。需要密封时,螺母的尺寸将发生变化,详情请垂询本公司。某些型号的螺母不能安装密封,敬请注意。
- 注3)表中的刚性值为螺母的刚性值,是在以下条件下,根据轴向弹性位移量计算得出的理论值。齿侧间隙型:相当于基本额定动负载Ca的30%的轴向负载作用时;预压型:施加了相当于基本额定动负载Ca的5%的预压时;轴向负载及预压量与上述条件不同时,可通过第A823页或第A824的公式计算。
- 注4)标准螺纹旋向为右旋。需要左旋时,请垂询本公司。
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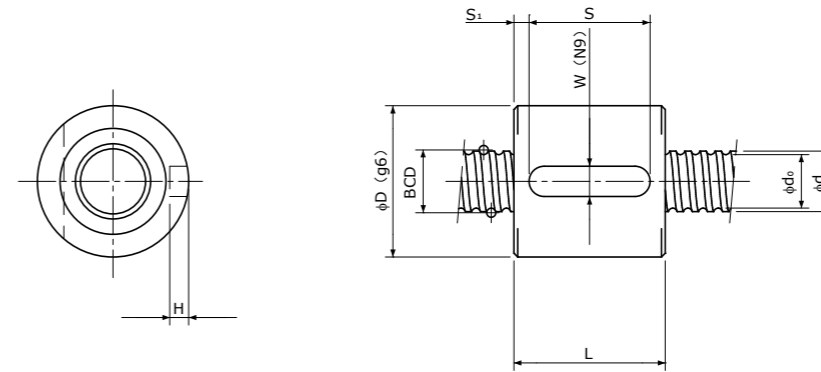
Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138
		Preload type 预压型
		Backlash type 齿侧间隙型

- Note 1)The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.
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- Note 3)The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions. Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca. Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca. For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.
- Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
- Note 5)Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Precision Ball Screws 精密滚珠丝杠

Sleeve type Single Nut 套筒型单螺母

Backlash type/Preload type 齿侧间隙型/预压型



Unit(单位):mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 do	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸						Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		D	L	W	H	S	S1	
BS 0801 B	8	1	0.8	8.15	2°15'	7.3	3.7×1	780 / 490	1650 / 820	95 / 80	16	14	3	1.8	10	2	BS 0801 B
BS 0801.5 B	8	1.5	1.0	8.20	3°20'	7.1	3.7×1	1100 / 700	2200 / 1100	99 / 83	16	16	3	1.8	10	3	BS 0801.5 B
BS 0802 B(1)	8	2	1.0	8.20	4°26'	7.1	3.7×1	1100 / 700	2200 / 1100	99 / 83	16	18	3	1.8	12	3	BS 0802 B(1)
BS 0802 B(2)	8	2	1.5875	8.30	4°23'	6.6	3.7×1	2400 / 1550	4100 / 2100	111 / 94	20	20	4	2.5	16	2	BS 0802 B(2)
BS 0802.5 A	8	2.5	1.5875	8.00	5°41'	6.3	2.7×1	1850 / —	3000 / —	80 / —	16	16	3	1.8	8	4	BS 0802.5 A
BS 0802.5 B	8	2.5	1.5875	8.30	5°29'	6.6	3.7×1	2400 / 1550	4100 / 2100	111 / 93	20	22	4	2.5	16	3	BS 0802.5 B
BS 0803 A	8	3	2.0	8.30	6°34'	6.2	2.7×1	2600 / 1650	4200 / 2100	85 / 70	20	22	4	2.5	16	3	BS 0803 A
BS 0804 A	8	4	2.0	8.30	8°43'	6.2	2.7×1	2600 / 1650	4200 / 2100	84 / 70	21	26	4	2.5	20	3	BS 0804 A
BS 0805 A	8	5	1.5875	8.30	10°51'	6.6	2.7×1	1850 / 1150	3000 / 1500	82 / 67	18	28	4	2.5	20	4	BS 0805 A

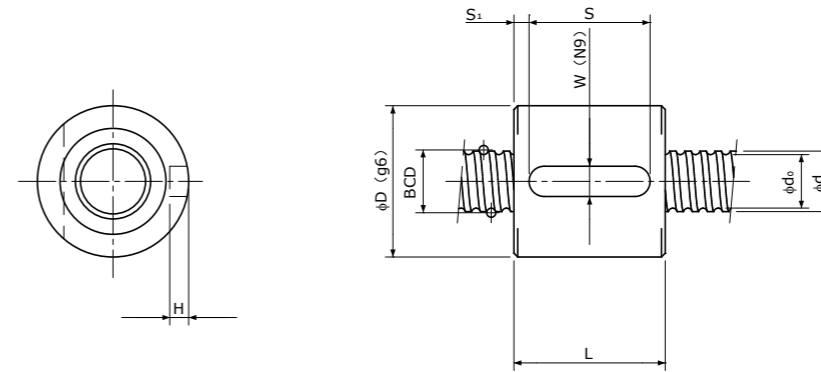
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- 注3)表中的刚性值为螺母的刚性值, 是在以下条件下, 根据轴向弹性位移量计算得出的理论值。齿侧间隙型: 相当于基本额定动负载Ca的30%的轴向负载作用时; 预压型: 施加了相当于基本额定动负载Ca的5%的预压时; 轴向负载及预压量与上述条件不同时, 可通过第A823页或第A824的公式计算。
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Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138
		Preload type 预压型
		Backlash type 齿侧间隙型

- Note 1)The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.
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- Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
- Note 5)Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Sleeve type Single Nut
套筒型单螺母

Backlash type/Preload type
齿侧间隙型/预压型



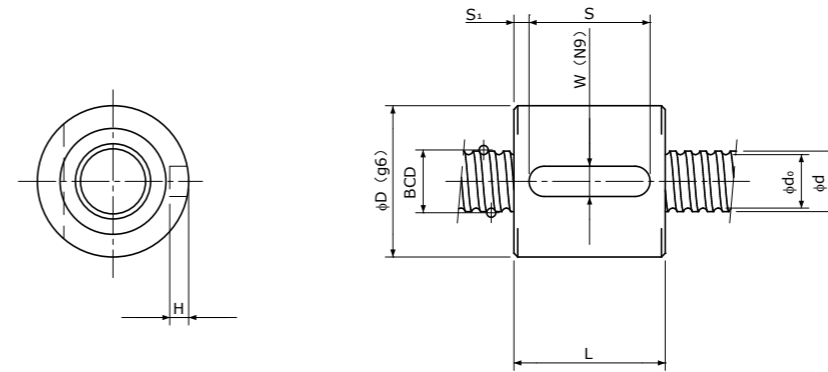
Unit(单位):mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸						Ball Nut Model number 螺母型号	
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		D	L	W	H	S	S ₁		
BS 1001 B	10	1	0.8	10.15	1°48'	9.3	3.7×1	840 / 530	2000 / 1000	113 / 95		19	14	3	1.8	10	2	BS 1001 B
BS 1001.5 B	10	1.5	1.0	10.20	2°41'	9.1	3.7×1	1250 / 790	2800 / 1400	120 / 101		19	16	3	1.8	10	3	BS 1001.5 B
BS 1002 B	10	2	1.5875	10.30	3°32'	8.6	3.7×1	2700 / 1750	5300 / 2700	134 / 112		23	20	5	3	16	2	BS 1002 B
BS 1002.5 B	10	2.5	1.5875	10.30	4°25'	8.6	3.7×1	2700 / 1750	5300 / 2700	133 / 112		24	22	5	3	16	3	BS 1002.5 B
BS 1003 B	10	3	2.0	10.30	5°18'	8.2	3.7×1	3900 / 2500	7200 / 3600	140 / 118		24	26	5	3	20	3	BS 1003 B
BS 1004 A	10	4	2.0	10.30	7°03'	8.2	2.7×1	3000 / 1800	5200 / 2600	104 / 86		24	26	5	3	20	3	BS 1004 A
BS 1005 A(1)	10	5	2.0	10.30	8°47'	8.2	2.7×1	3000 / —	5200 / —	103 / —		23	26	5	3	16	5	BS 1005 A(1)
BS 1005 A(2)	10	5	2.0	10.30	8°47'	8.2	2.7×1	3000 / 1800	5200 / 2600	103 / 85		24	34	5	3	28	3	BS 1005 A(2)

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- 注2)标准螺母不带密封。需要密封时, 螺母的尺寸将发生变化, 详情请垂询本公司。某些型号的螺母不能安装密封, 敬请注意。
- 注3)表中的刚性值为螺母的刚性值, 是在以下条件下, 根据轴向弹性位移量计算得出的理论值。
齿侧间隙型: 相当于基本额定动负载Ca的30%的轴向负载作用时
预压型: 施加了相当于基本额定动负载Ca的5%的预压时
轴向负载及预压量与上述条件不同时, 可通过第A823页或第A824的公式计算。
- 注4)标准螺纹旋向为右旋。需要左旋时, 请垂询本公司。
- 注5)基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138
		Preload type 预压型
		Backlash type 齿侧间隙型

- Note 1)The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.
- Note 2)Ball Nut dimension is without seal at the both ends. If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS. Some type of Ball Nuts cannot equip with seals, please ask KSS representative.
- Note 3)The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions.
Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca.
Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca.
For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.
- Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
- Note 5)Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Sleeve type Single Nut
套筒型单螺母Backlash type/Preload type
齿侧间隙型/预压型

Unit(单位):mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸						Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		D	L	W	H	S	S ₁	
BS 1201 B	12	1	0.8	12.15	1°30'	11.3	3.7×1	910 / 570	2400 / 1200	131 / 110	22	14	4	2.5	10	2	BS 1201 B
BS 1202 B	12	2	1.5875	12.30	2°58'	10.6	3.7×1	3000 / 1900	6400 / 3200	156 / 132	25	20	5	3	16	2	BS 1202 B
BS 1202.5 B	12	2.5	1.5875	12.30	3°42'	10.6	3.7×1	3000 / 1850	6400 / 3200	156 / 130	26	22	5	3	16	3	BS 1202.5 B
BS 1203 B	12	3	2.0	12.30	4°26'	10.2	3.7×1	4300 / 2800	8700 / 4300	162 / 137	28	26	5	3	20	3	BS 1203 B
BS 1204 B	12	4	2.381	12.30	5°55'	9.8	3.7×1	5400 / 3400	10200 / 5100	165 / 139	28	31	5	3	25	3	BS 1204 B
BS 1205 A	12	5	2.381	12.30	7°22'	9.8	2.7×1	4100 / 2500	7400 / 3700	122 / 101	28	31	5	3	25	3	BS 1205 A
BS 1401 B	14	1	0.8	14.15	1°17'	13.3	3.7×1	960 / 610	2900 / 1450	148 / 124	26	16	5	3	10	3	BS 1401 B
BS 1402 B	14	2	1.5875	14.30	2°33'	12.6	3.7×1	3200 / 2000	7500 / 3800	176 / 148	26	20	5	3	16	2	BS 1402 B
BS 1402.5 B	14	2.5	1.5875	14.30	3°11'	12.6	3.7×1	3200 / 2000	7500 / 3700	176 / 148	28	22	5	3	16	3	BS 1402.5 B
BS 1403 B	14	3	2.0	14.30	3°49'	12.2	3.7×1	4600 / 2900	10100 / 5000	184 / 154	30	26	5	3	20	3	BS 1403 B
BS 1404 B	14	4	2.381	14.30	5°05'	11.8	3.7×1	5700 / 3600	11600 / 5800	187 / 157	30	31	5	3	25	3	BS 1404 B
BS 1405 B	14	5	2.381	14.30	6°21'	11.8	3.7×1	5700 / 3600	11600 / 5800	186 / 157	30	38	5	3	28	5	BS 1405 B

注1)设计时,请注意使滚珠丝杠轴端的其中一端不超过丝杠轴底径。
如果两个轴端设计得大于底径,则将无法组装螺母。

注2)标准螺母不带密封。

需要密封时,螺母的尺寸将发生变化,详情请垂询本公司。
某些型号的螺母不能安装密封,敬请注意。

注3)表中的刚性值为螺母的刚性值,是在以下条件下,根据轴向弹性位移量计算得出的理论值。
齿侧间隙型:相当于基本额定动负载Ca的30%的轴向负载作用时
预压型:施加了相当于基本额定动负载Ca的5%的预压时
轴向负载及预压量与上述条件不同时,可通过第A823页或第A824的公式计算。

注4)标准螺纹旋向为右旋。
需要左旋时,请垂询本公司。

注5)基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138

Preload type
预压型
Backlash type
齿侧间隙型

Note 1)The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.

Note 2)Ball Nut dimension is without seal at the both ends.

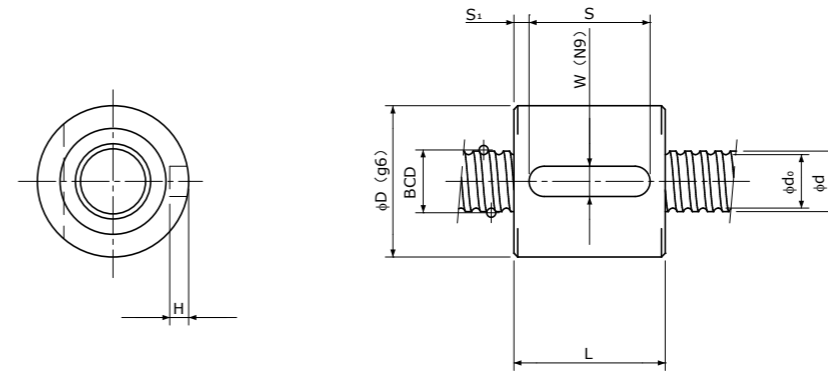
If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS. Some type of Ball Nuts cannot equip with seals, please ask KSS representative.

Note 3)The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions.

Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca. Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca. For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.

Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.

Note 5)Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Sleeve type Single Nut
套筒型单螺母Backlash type/Preload type
齿侧间隙型/预压型

Unit(单位):mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸						Ball Nut Model number 螺母型号	
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		D	L	W	H	S	S ₁		
BS 1601 B	16	1	0.8	16.15	1°08'	15.3	3.7×1	1000 / 640	3300 / 1650	164 / 138		28	16	5	3	10	3	BS 1601 B
BS 1602 B	16	2	1.5875	16.30	2°14'	14.6	3.7×1	3400 / 2100	8600 / 4300	197 / 163		28	20	5	3	16	2	BS 1602 B
BS 1603 B	16	3	2.0	16.30	3°21'	14.2	3.7×1	4900 / 3100	11600 / 5800	205 / 172		32	26	5	3	20	3	BS 1603 B
BS 1604 B	16	4	2.381	16.30	4°28'	13.8	3.7×1	6200 / 3900	13600 / 6800	209 / 174		34	32	5	3	25	3.5	BS 1604 B
BS 1605 B	16	5	3.175	16.50	5°31'	13.2	3.7×1	9100 / 5700	18200 / 9100	217 / 182		38	38	5	3	28	5	BS 1605 B

注1)设计时,请注意使滚珠丝杠轴端的其中一端不超过丝杠轴底径。
如果两个轴端设计得大于底径,则将无法组装螺母。

注2)标准螺母不带密封。
需要密封时,螺母的尺寸将发生变化,详情请垂询本公司。
某些型号的螺母不能安装密封,敬请注意。

注3)表中的刚性值为螺母的刚性值,是在以下条件下,根据轴向弹性位移量计算得出的理论值。
齿侧间隙型:相当于基本额定动负载Ca的30%的轴向负载作用时
预压型:施加了相当于基本额定动负载Ca的5%的预压时
轴向负载及预压量与上述条件不同时,可通过第A823页或第A824的公式计算。

注4)标准螺纹旋向为右旋。
需要左旋时,请垂询本公司。

注5)基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

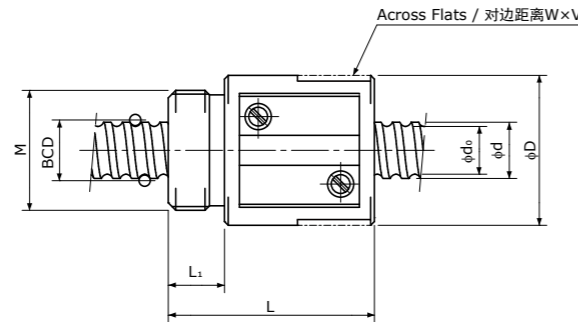
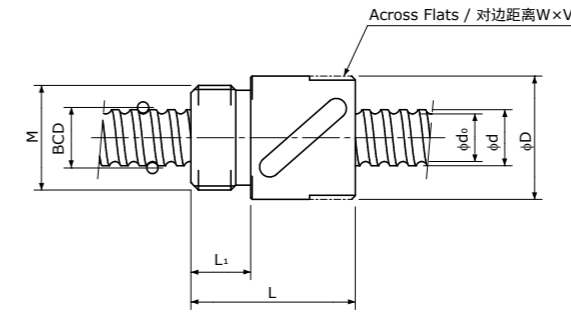
Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138
		Preload type 预压型
		Backlash type 齿侧间隙型

Note 1)The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.

Note 2)Ball Nut dimension is without seal at the both ends.
If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS.
Some type of Ball Nuts cannot equip with seals, please ask KSS representative.

Note 3)The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions.
Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca.
Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca.
For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.

Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
Note 5)Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Single Nut with M-thread
带公制螺纹单螺母Backlash type/Preload type
齿侧间隙型/预压型Type-1: Return-plate type
复式回路板循环方式Type-2: Return-tube type
回路管循环方式

Unit(单位): mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸						Ball Nut Model number 螺母型号	
								Dynamic 额定动负载 C _a	Static 额定静负载 C _{0a}		Nut type 螺母类型	D	L	L ₁	Across Flats width 对边距离 W	Across Flats length 对边距离长度 V		M
MS 0401 B	4	1	0.8	4.15	4°23'	3.3	3.7×1	560 / 350	790 / 400	54 / 45	1	11	17	4	10	6	M9×0.75	MS 0401 B
MS 0602 A	6	2	1.0	6.20	5°52'	5.1	2.7×1	750 / 470	1200 / 590	58 / 49	1	16.5	22	8	14	4	M14×1.0	MS 0602 A
MS 0801.5 B	8	1.5	1.0	8.20	3°20'	7.1	3.7×1	1100 / 700	2200 / 1100	99 / 83	1	16.5	24	8	14	5	M14×1.0	MS 0801.5 B
MS 0802 B	8	2	1.5875	8.30	4°23'	6.6	3.7×1	2400 / 1550	4100 / 2100	111 / 94	1	20	27.5	7.5	18	5	M16×1.0	MS 0802 B
MS 0802.5 T(1)	8	2.5	1.5875	8.00	5°41'	6.3	3.5×1	2300 / —	3900 / —	102 / —	2	16.5	22	8	14	4	M14×1.0	MS 0802.5 T(1)
MS 0802.5 T(2)	8	2.5	1.5875	8.00	5°41'	6.3	3.5×1	2300 / —	3900 / —	102 / —	2	17.5	25.5	7.5	15	4	M15×1.0	MS 0802.5 T(2)
MS 0803 A	8	3	2.0	8.30	6°34'	6.2	2.7×1	2600 / 1650	4200 / 2100	85 / 70	1	20	28.5	7.5	18	5	M16×1.0	MS 0803 A
MS 0804 T	8	4	1.5875	8.00	9°03'	5.9	2.5×1	1750 / —	2800 / —	75 / —	2	16.5	24	8	14	4	M14×1.0	MS 0804 T
MS 0805 A	8	5	1.5875	8.30	10°51'	6.6	2.7×1	1850 / 1150	3000 / 1500	82 / 67	1	18	32.5	7.5	16	5	M15×1.0	MS 0805 A

注1)设计时,请注意使滚珠丝杠轴端的其中一端不超过丝杠轴底径。

如果两个轴端设计得大于底径,则将无法组装螺母。

注2)标准螺母不带密封。不能安装密封,敬请注意。

注3)表中的刚性值为螺母的刚性值,是在以下条件下,根据轴向弹性位移量计算得出的理论值。

齿侧间隙型:相当于基本额定动负载Ca的30%的轴向负载作用时

预压型:施加了相当于基本额定动负载Ca的5%的预压时

轴向负载及预压量与上述条件不同时,可通过第A823页或第A824的公式计算。

注4)标准螺纹旋向为右旋。

需要左旋时,请垂询本公司。

注5)为了便于安装配合零件而需要对螺母外径进行对边距离加工或开孔加工时,

请垂询本公司。

注6)基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 C _a	Static 额定静负载 C _{0a}	
1000 / 640	3300 / 1650	164 / 138

Preload type
预压型
Backlash type
齿侧间隙型

Note 1)The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.

Note 2)Ball Nut dimension is without seal at the both ends. All type of Ball Nuts cannot equip with seals.

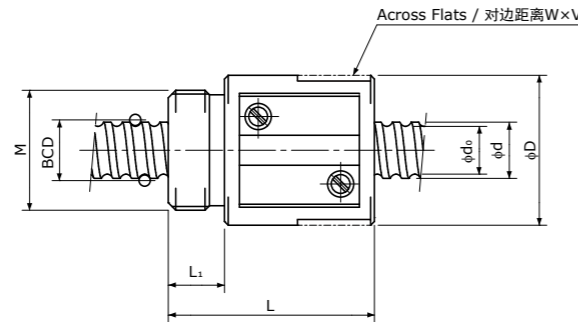
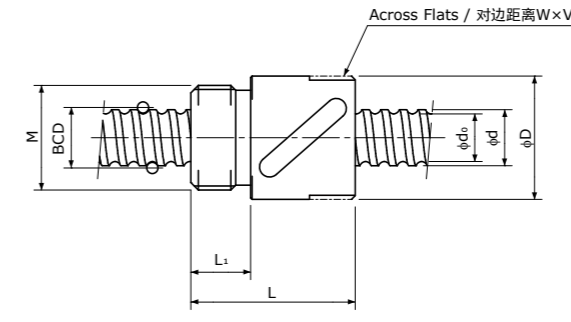
Note 3)The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions.
Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating C_a.
Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating C_a.
For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.

Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.

Note 5)Across Flats or drill hole is available on the Ball Nut for the convenience of assembly. Please ask KSS representative.

Note 6)Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Precision Ball Screws 精密滚珠丝杠

Single Nut with M-thread
带公制螺纹单螺母Backlash type/Preload type
齿侧间隙型/预压型Type-1: Return-plate type
复式回路板循环方式Type-2: Return-tube type
回路管循环方式

Unit(单位): mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸						Ball Nut Model number 螺母型号	
								Dynamic 额定动负载 C _a	Static 额定静负载 C _{0a}		Nut type 螺母类型	D	L	L ₁	Across Flats width 对边距离 W	Across Flats length 对边距离长度 V		M
MS 1002 B	10	2	1.5875	10.30	3°32'	8.6	3.7×1	2700 / 1750	5300 / 2700	134 / 112	1	23	27.5	7.5	21	5	M17×1.0	MS 1002 B
MS 1202 B	12	2	1.5875	12.30	2°58'	10.6	3.7×1	3000 / 1900	6400 / 3200	156 / 132	1	25	30	10	23	5	M20×1.0	MS 1202 B
MS 1204 T	12	4	2.381	12.30	5°55'	9.8	2.5×1	3900 / —	7000 / —	113 / —	2	25.5	34	10	23	5	M20×1.0	MS 1204 T
MS 1402 B	14	2	1.5875	14.30	2°33'	12.6	3.7×1	3200 / 2000	7500 / 3800	176 / 148	1	26	30	10	23	5	M22×1.5	MS 1402 B
MS 1404 B	14	4	2.381	14.30	5°05'	11.8	3.7×1	5700 / 3600	11600 / 5800	187 / 157	1	30	38	10	27	8	M25×1.0	MS 1404 B

注1)设计时,请注意使滚珠丝杠轴端的其中一端不超过丝杠轴底径。

如果两个轴端设计得大于底径,则将无法组装螺母。

注2)标准螺母不带密封。不能安装密封,敬请注意。

注3)表中的刚性值为螺母的刚性值,是在以下条件下,根据轴向弹性位移量计算得出的理论值。

齿侧间隙型:相当于基本额定动负载Ca的30%的轴向负载作用时

预压型:施加了相当于基本额定动负载Ca的5%的预压时

轴向负载及预压量与上述条件不同时,可通过第A823页或第A824的公式计算。

注4)标准螺纹旋向为右旋。

需要左旋时,请垂询本公司。

注5)为了便于安装配合零件而需要对螺母外径进行对边距离加工或开孔加工时,请垂询本公司。

注6)基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 C _a	Static 额定静负载 C _{0a}	
1000 / 640	3300 / 1650	164 / 138
		Preload type 预压型
		Backlash type 齿侧间隙型

Note 1)The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.

Note 2)Ball Nut dimension is without seal at the both ends. All type of Ball Nuts cannot equip with seals.

Note 3)The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions.
Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating C_a.
Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating C_a.
For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.

Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.

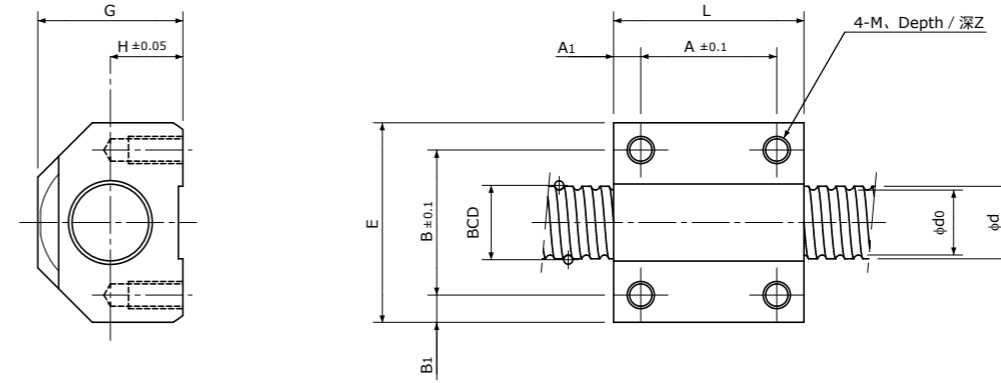
Note 5)Across Flats or drill hole is available on the Ball Nut for the convenience of assembly. Please ask KSS representative.

Note 6)Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Precision Ball Screws 精密滚珠丝杠

Square type Single Nut 方型单螺母

Backlash type/Preload type
齿侧间隙型/预压型



Unit(单位):mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸										Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		L	E	G	H	A	A ₁	B	B ₁	M	Z	
KS 0601 B	6	1	0.8	6.15	2°58'	5.3	3.7×1	680 / 430	1200 / 610	75 / 63	20	20	14	7	14	3	14	3	M3	6	KS 0601 B
KS 0602 A	6	2	1.0	6.20	5°52'	5.1	2.7×1	750 / 470	1200 / 590	58 / 49	20	20	14	7	14	3	14	3	M3	6	KS 0602 A
KS 0801 B	8	1	0.8	8.15	2°15'	7.3	3.7×1	780 / 490	1650 / 820	95 / 80	21	22	16	8	15	3	16	3	M3	6	KS 0801 B
KS 0802 A	8	2	1.0	8.20	4°26'	7.1	2.7×1	850 / 540	1600 / 800	74 / 61	21	22	16	8	15	3	16	3	M3	6	KS 0802 A
KS 1001 B	10	1	0.8	10.15	1°48'	9.3	3.7×1	840 / 530	2000 / 1000	113 / 95	26	28	22	12	18	4	20	4	M4	7	KS 1001 B
KS 1002 B	10	2	1.5875	10.30	3°32'	8.6	3.7×1	2700 / 1750	5300 / 2700	134 / 112	26	28	23.5	12	18	4	20	4	M4	7	KS 1002 B

- 注1)设计时, 请注意使滚珠丝杠轴端的其中一端不超过丝杠轴底径。如果两个轴端设计得大于底径, 则将无法组装螺母。
- 注2)标准螺母不带密封。不能安装密封, 敬请注意。
- 注3)表中的刚性值为螺母的刚性值, 是在以下条件下, 根据轴向弹性位移量计算得出的理论值。
齿侧间隙型: 相当于基本额定动负载Ca的30%的轴向负载作用时
预压型: 施加了相当于基本额定动负载Ca的5%的预压时
轴向负载及预压量与上述条件不同时, 可通过第A823页或第A824的公式计算。
- 注4)标准螺纹旋向为右旋。
需要左旋时, 请垂询本公司。
- 注5)基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138

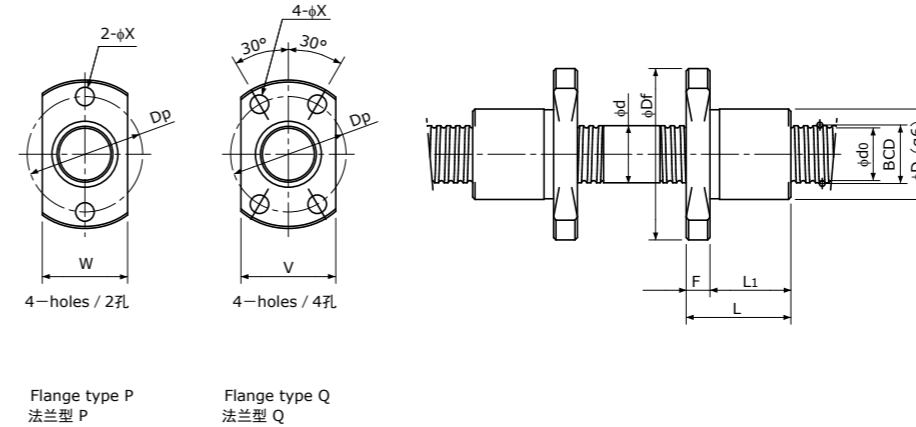
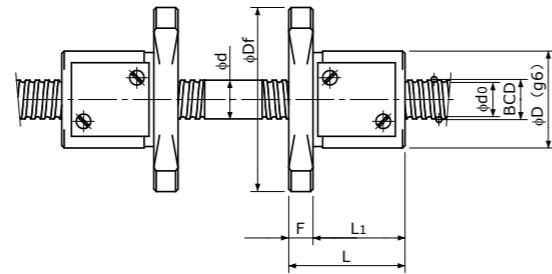
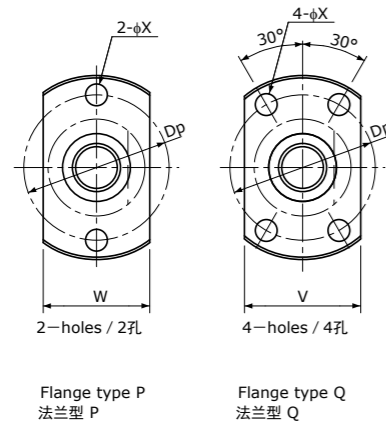
Preload type 预压型
Backlash type 齿侧间隙型

- Note 1)The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.
- Note 2)Ball Nut dimension is without seal at the both ends. All type of Ball Nuts cannot equip with seals.
- Note 3)The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions.
Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca.
Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca.
For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.
- Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
- Note 5)Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Precision Ball Screws 精密滚珠丝杠

Bi-directional Nut with Flange 双向法兰螺母

Backlash type/Preload type 齿侧间隙型/预压型



Type-1: Return-plate type
复式回路板循环方式

Type-2: Internal-deflector type
陀螺式循环方式

Unit(单位): mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d_0	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/ μ m	Nut dimension 螺母尺寸											Ball Nut Model number 螺母型号
								Dynamic 额定动负载 C_a	Static 额定静负载 C_oa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp	Bolt Hole 安装孔 X	Flange Type 法兰类型	
FKB 0401 A	4	1	0.6	4.15	4°23'	3.4	1×3	300 / 300	430 / 430	38 / 59	2	9	19	13	10	3	11	13	14	2.9	P,Q	FKB 0401 A
FKB 0501 A	5	1	0.6	5.15	3°32'	4.4	1×3	330 / 330	560 / 560	45 / 70	2	10	20	13	10	3	12	14	15	2.9	P,Q	FKB 0501 A
FKB 0601 A	6	1	0.8	6.20	2°56'	5.3	1×3	560 / 560	950 / 950	55 / 86	2	11	23	14.5	11	3.5	13	15	17	3.4	P,Q	FKB 0601 A
FKB 0801 A	8	1	0.8	8.20	2°13'	7.3	1×3	650 / 650	1300 / 1300	70 / 109	2	13	26	15	11	4	15	17	20	3.4	P,Q	FKB 0801 A
FKB 0801.5 A	8	1.5	1.0	8.30	3°18'	7.2	1×3	890 / 890	1650 / 1650	73 / 113	2	15	28	20	16	4	17	19	22	3.4	P,Q	FKB 0801.5 A
FKB 0802 A	8	2	1.2	8.30	4°23'	7.0	1×3	1300 / 1300	2300 / 2300	77 / 121	2	15	28	18	14	4	17	19	22	3.4	P,Q	FKB 0802 A
FKB 1001 A	10	1	0.8	10.20	1°47'	9.3	1×3	720 / 720	1650 / 1650	84 / 131	2	15	28	15	11	4	17	19	22	3.4	P,Q	FKB 1001 A
FKB 1001.5 A	10	1.5	1.0	10.30	2°39'	9.2	1×3	990 / 990	2100 / 2100	87 / 136	2	17	34	21	16	5	19	21	26	4.5	P,Q	FKB 1001.5 A
FKB 1002 A	10	2	1.2	10.30	3°32'	9.0	1×3	1450 / 1450	3000 / 3000	93 / 144	2	17	34	19	14	5	19	21	26	4.5	P,Q	FKB 1002 A
FKB 1002.5 A	10	2.5	1.5875	10.40	4°23'	8.7	1×3	2100 / 2100	3800 / 3800	96 / 150	2	18	35	21	16	5	20	22	27	4.5	P,Q	FKB 1002.5 A
FBS 1003 B	10	3	2.0	10.30	5°18'	8.2	3.7×1	3900 / 2500	7200 / 3600	140 / 118	1	24	44	30	24	6	26	27	35	5.5	P,Q	FBS 1003 B
FBS 1004 A	10	4	2.0	10.30	7°03'	8.2	2.7×1	3000 / 1800	5200 / 2600	104 / 86	1	24	44	29	23	6	26	27	35	5.5	P,Q	FBS 1004 A
FBS 1005 A	10	5	2.0	10.30	8°47'	8.2	2.7×1	3000 / 1800	5200 / 2600	103 / 85	1	24	44	34	28	6	26	27	35	5.5	P,Q	FBS 1005 A

注1)设计时, 请注意使两个轴端不超过丝杠轴底径。如果两个轴端设计得大于底径, 则将无法组装螺母。

注2)标准螺母不带密封。需要密封时, 螺母的尺寸将发生变化, 详情请垂询本公司。某些型号的螺母不能安装密封, 敬请注意。

注3)表中的刚性值为螺母的刚性值, 是在以下条件下, 根据轴向弹性位移量计算得出的理论值。齿侧间隙型: 相当于基本额定动负载Ca的30%的轴向负载作用时。预压型: 施加了相当于基本额定动负载Ca的5%的预压时。轴向负载及预压量与上述条件不同时, 可通过第A823页或第A824的公式计算。

注4)基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/ μ m
Dynamic 额定动负载 C_a	Static 额定静负载 C_oa	
1000 / 640	3300 / 1650	164 / 138

Preload type 预压型
Backlash type 齿侧间隙型

Note 1)The diameter of the Screw Shaft both ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.

Note 2)Ball Nut dimension is without seal at the both ends. If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS. Some type of Ball Nuts cannot equip with seals, please ask KSS representative.

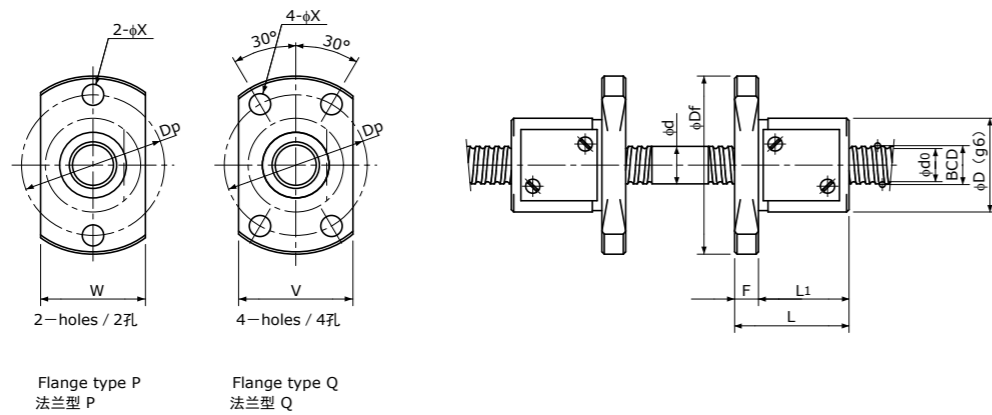
Note 3)The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions. Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating C_a . Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating C_a . For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.

Note 4)Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Precision Ball Screws 精密滚珠丝杠

Bi-directional Nut with Flange 双向法兰螺母

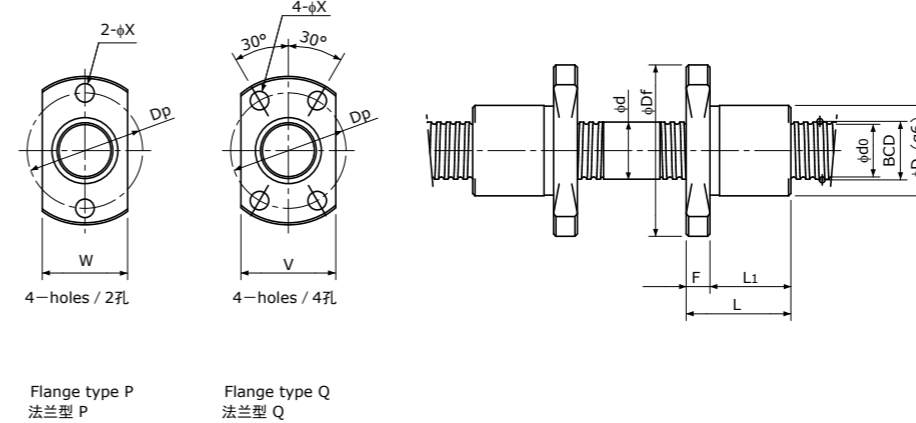
Backlash type/Preload type 齿侧间隙型/预压型



Flange type P
法兰型 P

Flange type Q
法兰型 Q

Type-1: Return-plate type
复式回路板循环方式



Flange type P
法兰型 P

Flange type Q
法兰型 Q

Type-2: Internal-deflector type
陀螺式循环方式

Unit(单位): mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸											Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp	Bolt Hole 安装孔 X	Flange Type 法兰类型	
FKB 1201 A	12	1	0.8	12.20	1°30'	11.3	1×3	780 / 780	2000 / 2000	97 / 152	2	17	34	16	11	5	19	21	26	4.5	P,Q	FKB 1201 A
FKB 1202 A	12	2	1.2	12.30	2°58'	11.0	1×3	1600 / 1600	3700 / 3700	109 / 169	2	19	36	19	14	5	21	23	28	4.5	P,Q	FKB 1202 A
FKB 1202.5 A	12	2.5	1.5875	12.40	3°41'	10.7	1×3	2300 / 2300	4700 / 4700	112 / 174	2	20	37	21	16	5	22	24	29	4.5	P,Q	FKB 1202.5 A
FKB 1203 A	12	3	2.0	12.50	4°22'	10.4	1×3	3100 / 3100	5700 / 5700	115 / 179	2	22	41	32	26	6	24	26	32	5.5	P,Q	FKB 1203 A
FBS 1204 B	12	4	2.381	12.30	5°55'	9.8	3.7×1	5400 / 3400	10200 / 5100	165 / 139	1	28	48	33	27	6	30	30	39	5.5	P,Q	FBS 1204 B
FBS 1401 B	14	1	0.8	14.15	1°17'	13.3	3.7×1	960 / 610	2900 / 1450	148 / 124	1	26	46	21	15	6	28	28	37	5.5	P,Q	FBS 1401 B
FKB 1402 A	14	2	1.2	14.30	2°33'	13.0	1×3	1700 / 1700	4300 / 4300	122 / 190	2	21	40	20	14	6	23	26	31	5.5	P,Q	FKB 1402 A
FKB 1402.5 A	14	2.5	1.5875	14.40	3°10'	12.7	1×3	2500 / 2500	5600 / 5600	127 / 197	2	22	41	22	16	6	24	26	32	5.5	P,Q	FKB 1402.5 A
FKB 1403 A	14	3	2.0	14.50	3°46'	12.4	1×3	3400 / 3400	6800 / 6800	131 / 204	2	24	43	32	26	6	26	27	34	5.5	P,Q	FKB 1403 A
FKB 1404 A	14	4	2.381	14.65	4°58'	11.9	1×3	4500 / 4500	8600 / 8600	136 / 212	2	26	45	29	23	6	28	28	36	5.5	P,Q	FKB 1404 A
FBS 1405 B	14	5	2.381	14.30	6°21'	11.8	3.7×1	5700 / 3600	11600 / 5800	186 / 157	1	30	51	39	33	6	32	32	42	5.5	P,Q	FBS 1405 B

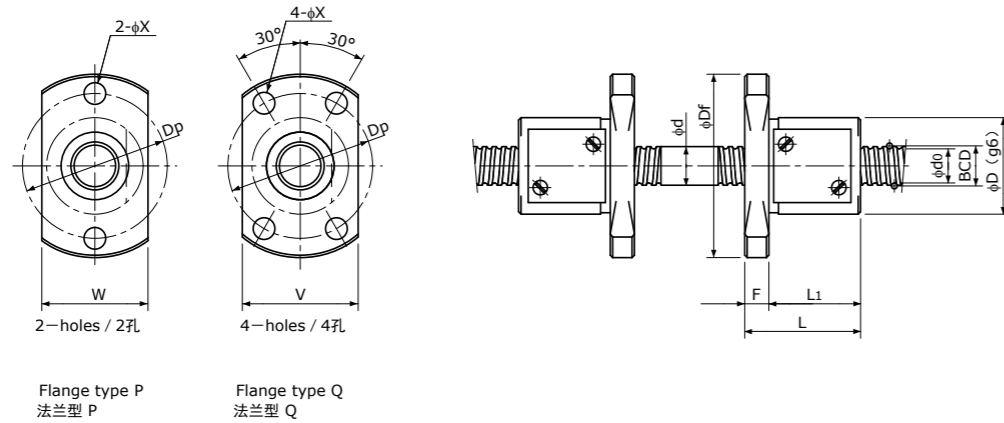
- 注1)设计时, 请注意使两个轴端不超过丝杠轴底径。如果两个轴端设计得大于底径, 则将无法组装螺母。
- 注2)标准螺母不带密封。需要密封时, 螺母的尺寸将发生变化, 详情请垂询本公司。某些型号的螺母不能安装密封, 敬请注意。
- 注3)表中的刚性值为螺母的刚性值, 是在以下条件下, 根据轴向弹性位移量计算得出的理论值。齿侧间隙型: 相当于基本额定动负载Ca的30%的轴向负载作用时; 预压型: 施加了相当于基本额定动负载Ca的5%的预压时; 轴向负载及预压量与上述条件不同时, 可通过第A823页或第A824的公式计算。
- 注4)基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138
		Preload type 预压型
		Backlash type 齿侧间隙型

- Note 1)The diameter of the Screw Shaft both ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.
- Note 2)Ball Nut dimension is without seal at the both ends. If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS. Some type of Ball Nuts cannot equip with seals, please ask KSS representative.
- Note 3)The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions. Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca. Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca. For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.
- Note 4)Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Bi-directional Nut with Flange
双向法兰螺母

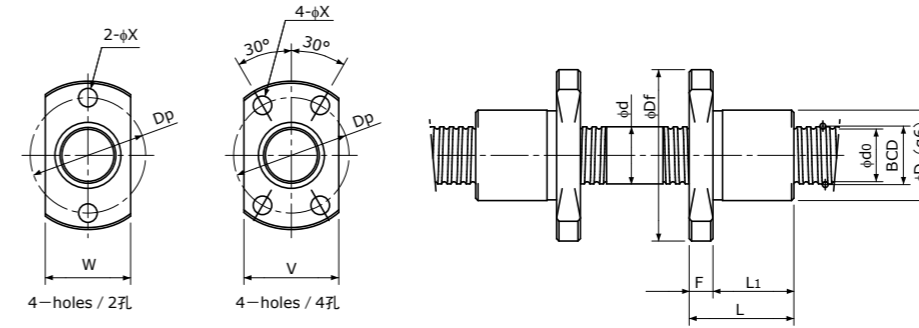
Backlash type/Preload type
齿侧间隙型/预压型



Flange type P
法兰型 P

Flange type Q
法兰型 Q

Type-1: Return-plate type
复式回路板循环方式



Flange type P
法兰型 P

Flange type Q
法兰型 Q

Type-2: Internal-deflector type
陀螺式循环方式

Unit(单位): mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d_0	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/ μ m	Nut dimension 螺母尺寸											Ball Nut Model number 螺母型号
								Dynamic 额定动负载 C_a	Static 额定静负载 C_oa		Nut type 螺母类型	D	D_f	L	L_1	F	W	V	D_p	Bolt Hole 安装孔 X	Flange Type 法兰类型	
FBS 1601 B	16	1	0.8	16.15	1°08'	15.3	3.7×1	1000 / 640	3300 / 1650	164 / 138	1	28	48	21	15	6	30	30	39	5.5	P,Q	FBS 1601 B
FKB 1602 A	16	2	1.2	16.30	2°15'	15.0	1×3	1850 / 1850	5000 / 5000	137 / 213	2	24	43	20	14	6	26	27	34	5.5	P,Q	FKB 1602 A
FKB 1603 A	16	3	2.0	16.50	3°19'	14.4	1×3	3600 / 3600	8000 / 8000	146 / 227	2	26	45	32	26	6	28	28	36	5.5	P,Q	FKB 1603 A
FKB 1604 A	16	4	2.381	16.65	4°22'	13.9	1×3	4800 / 4800	10000 / 10000	152 / 237	2	28	47	29	23	6	30	30	38	5.5	P,Q	FKB 1604 A
FBS 1605 B	16	5	3.175	16.50	5°31'	13.2	3.7×1	9100 / 5700	18200 / 9100	217 / 182	1	38	57	42	36	6	40	40	48	5.5	P,Q	FBS 1605 B

- 注1) 设计时, 请注意使两个轴端不超过丝杠轴底径。如果两个轴端设计得大于底径, 则将无法组装螺母。
- 注2) 标准螺母不带密封。需要密封时, 螺母的尺寸将发生变化, 详情请垂询本公司。某些型号的螺母不能安装密封, 敬请注意。
- 注3) 表中的刚性值为螺母的刚性值, 是在以下条件下, 根据轴向弹性位移量计算得出的理论值。齿侧间隙型: 相当于基本额定动负载 C_a 的30%的轴向负载作用时; 预压型: 施加了相当于基本额定动负载 C_a 的5%的预压时; 轴向负载及预压量与上述条件不同时, 可通过第A823页或第A824页的公式计算。
- 注4) 基本额定负载和刚性值(齿侧间隙型和预压型的刚性值可能会有不同)一并标示在上表中。

Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/ μ m
Dynamic 额定动负载 C_a	Static 额定静负载 C_oa	
1000 / 640	3300 / 1650	164 / 138
		Preload type 预压型
		Backlash type 齿侧间隙型

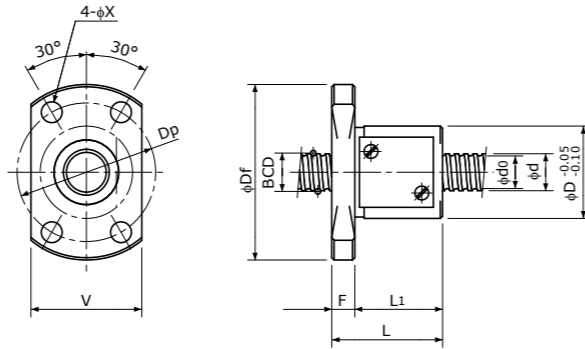
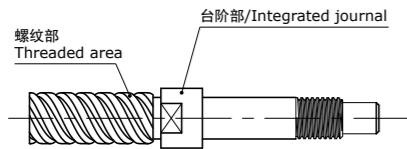
- Note 1) The diameter of the Screw Shaft both ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.
- Note 2) Ball Nut dimension is without seal at the both ends. If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS. Some type of Ball Nuts cannot equip with seals, please ask KSS representative.
- Note 3) The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions. Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating C_a . Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating C_a . For Axial load or Preload condition other than the above, see the formula in page A823 or page A824, you can calculate Rigidity using this formula.
- Note 4) Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Rolled Ball Screws 冷轧滚珠丝杠

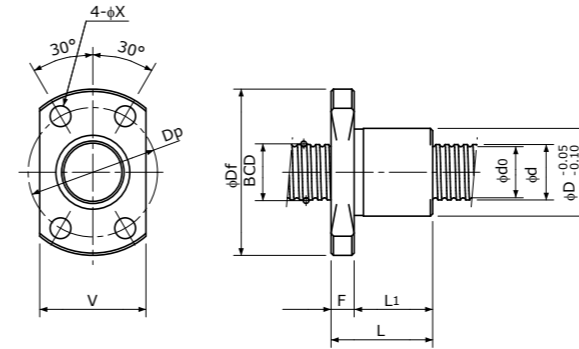
Single Nut with Flange 带法兰单螺母

Backlash type 齿侧间隙型

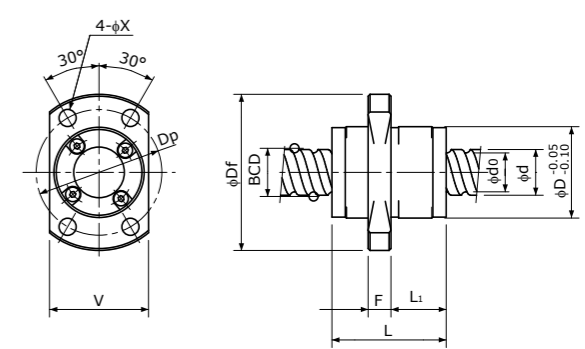
- 也可生产对轴端直径进行了加粗设计的台阶型冷轧加工（下图），详情请垂询本公司。（轴端直径φ12以下）
- Rolled Ball Screws with integrated journal are available (φ12 or less only), which have larger diameter than threaded area shown below.



Type-1: Return-plate type
复式回路板循环方式



Type-2: End-deflector type
偏转器式循环方式



Type-3: End-cap type or End-deflector type
端盖循环方式或偏转器式循环方式

Unit(单位): mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸									Ball Nut Model number 螺母型号	
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp		Bolt Hole 安装孔 X
MRB 0401	4	1	0.8	4.15	4°23'	3.3	3.7×1	560	790	54	1	11	23	17	13	4	—	15	17	3.4	MRB 0401
MRB 0401K	4	1	0.6	4.15	4°23'	3.4	1×3	300	430	38	2	9	19	13	10	3	—	13	14	2.9	MRB 0401K
MRB 0402	4	2	0.8	4.15	8°43'	3.3	2.7×1	420	570	39	1	11	23	19	15	4	—	15	17	3.4	MRB 0402
MRB 0504	5	4	0.8	5.15	13°53'	4.3	2.7×1	470	720	47	1	12	24	22	18	4	—	16	18	3.4	MRB 0504
MRB 0601 **	6	1	0.8	6.15	2°58'	5.3	3.7×1	680	1200	75	1	13	26	17	13	4	—	16	20	3.4	MRB 0601 **
MRB 0601K	6	1	0.8	6.20	2°56'	5.3	1×3	560	950	55	2	11	23	14.5	11	3.5	—	15	17	3.4	MRB 0601K
MRB 0602	6	2	1.0	6.20	5°52'	5.1	2.7×1	750	1200	58	1	15	28	17	13	4	—	19	22	3.4	MRB 0602
MRB 0606	6	6	1.0	6.30	16°52'	5.2	1.6×2	870	1450	67	3	14	27	17	8	4	—	16	21	3.4	MRB 0606
MRB 0610	6	10	1.2	6.30	26°48'	5.0	1.2×2	950	1600	50	3	14	27	23	11.5	4	—	16	21	3.4	MRB 0610

注1)标准螺纹旋向为右旋。
 注2)设计时,由于生产及组装螺母的关系,请使滚珠丝杠的两个轴端不超过丝杠轴底径。需要单侧台阶型时,请垂询本公司。
 注3)标准螺母不带密封。不能安装密封,敬请注意。
 注4)刚性
 表中的刚性值,是在相当于基本额定动负载Ca的30%的轴向负载作用时,根据轴向弹性位移量计算的理论值。轴向负载与上述条件不同时,可通过A823页的公式计算。
 注5)不锈钢冷轧滚珠丝杠
 螺母型号后带**者可提供不锈钢冷轧滚珠丝杠。

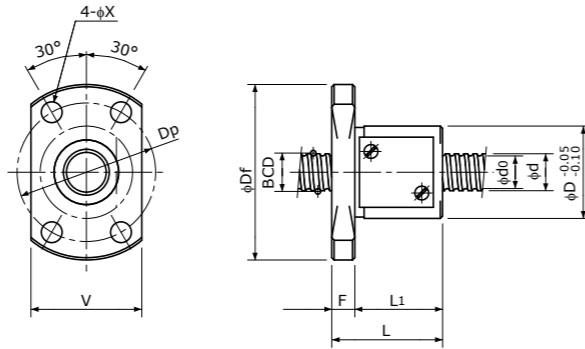
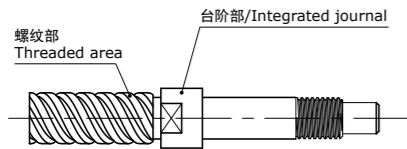
Note 1) All models are Right-hand screw.
 Note 2) The diameter of the Screw Shaft both ends must be less than the Screw Shaft Root diameter, because of production and Nut assembly reason. If bigger end-journal than Shaft diameter is required, please consult KSS.
 Note 3) Ball Nut dimension is without seal at the both ends. All type of Ball Nuts cannot equip with seals.
 Note 4) Rigidity
 The Rigidity values shown in the table are theoretical values calculated from the amount of Elastic Displacement under the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca.
 For Axial load condition other than the above, see the formula in page A823, you can calculate Rigidity using this formula.
 Note 5) Stainless Rolled Ball Screw
 Stainless Rolled Ball Screw is available for Ball Nut Model Number marked **.

Rolled Ball Screws 冷轧滚珠丝杠

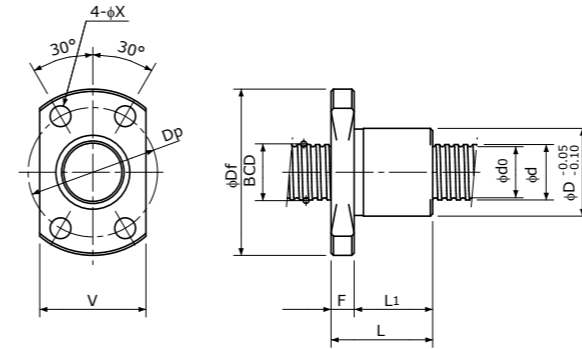
Single Nut with Flange 带法兰单螺母

Backlash type 齿侧间隙型

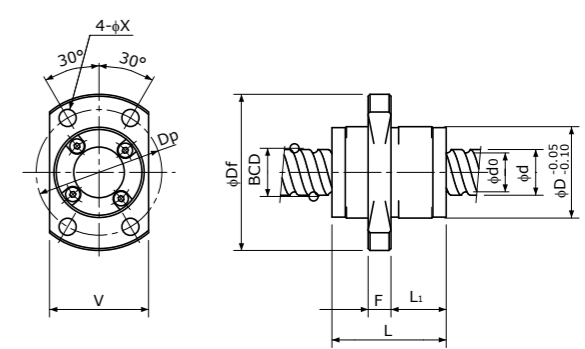
- 也可生产对轴端直径进行了加粗设计的台阶型冷轧加工（下图），详情请垂询本公司。（轴端直径φ12以下）
- Rolled Ball Screws with integrated journal are available (φ12 or less only), which have larger diameter than threaded area shown below.



Type-1: Return-plate type
复式回路板循环方式



Type-2: End-deflector type
偏转器式循环方式



Type-3: End-cap type or End-deflector type
端盖循环方式或偏转器式循环方式

Unit(单位): mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸									Ball Nut Model number 螺母型号	
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp		Bolt Hole 安装孔 X
MRB 0801 **	8	1	0.8	8.15	2°15'	7.3	3.7×1	780	1650	95	1	16	29	17	13	4	—	18	23	3.4	MRB 0801 **
MRB 0801K	8	1	0.8	8.20	2°13'	7.3	1×3	650	1300	70	2	13	26	15	11	4	—	17	20	3.4	MRB 0801K
MRB 0802 **	8	2	1.5875	8.30	4°23'	6.6	3.7×1	2400	4100	111	1	20	37	24	19	5	—	22	29	4.5	MRB 0802 **
MRB 0802K	8	2	1.2	8.30	4°23'	7.0	1×3	1300	2300	77	2	15	28	18	14	4	—	19	22	3.4	MRB 0802K
MRB 0802.5	8	2.5	1.5875	8.00	5°41'	6.3	2.7×1	1850	3000	80	2	16	29	16	12	4	—	18	23	3.4	MRB 0802.5
MRB 0805	8	5	1.5875	8.30	10°51'	6.6	2.7×1	1850	3000	82	1	18	31	28	24	4	—	20	25	3.4	MRB 0805
MRB 0808	8	8	1.5875	8.40	16°52'	6.7	1.6×2	2200	3800	95	3	18	31	20	10	4	—	20	25	3.4	MRB 0808
MRB 0810	8	10	1.5875	8.40	20°45'	6.7	1.6×2	2200	3800	92	3	18	31	24	13	4	—	20	25	3.4	MRB 0810
MRB 0812	8	12	1.5875	8.40	24°27'	6.7	1.6×2	2200	4000	90	3	18	31	27	17	4	—	20	25	3.4	MRB 0812

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 轴向负载与上述条件不同时,可通过A823页的公式计算。
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 螺母型号后带**者可提供不锈钢冷轧滚珠丝杠。

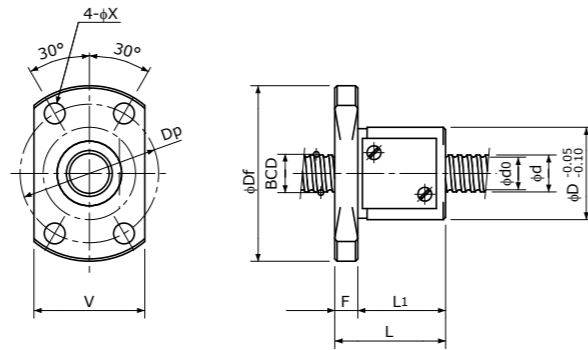
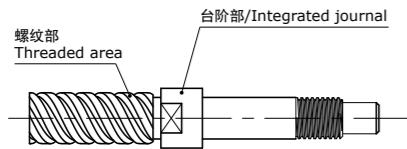
Note 1) All models are Right-hand screw.
 Note 2) The diameter of the Screw Shaft both ends must be less than the Screw Shaft Root diameter, because of production and Nut assembly reason. If bigger end-journal than Shaft diameter is required, please consult KSS.
 Note 3) Ball Nut dimension is without seal at the both ends. All type of Ball Nuts cannot equip with seals.
 Note 4) Rigidity
 The Rigidity values shown in the table are theoretical values calculated from the amount of Elastic Displacement under the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca.
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 Note 5) Stainless Rolled Ball Screw
 Stainless Rolled Ball Screw is available for Ball Nut Model Number marked **.

Rolled Ball Screws 冷轧滚珠丝杠

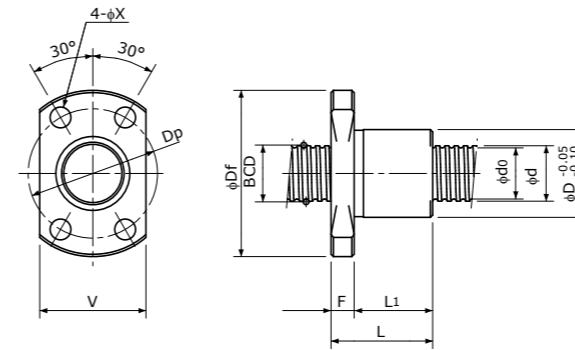
Single Nut with Flange 带法兰单螺母

Backlash type 齿侧间隙型

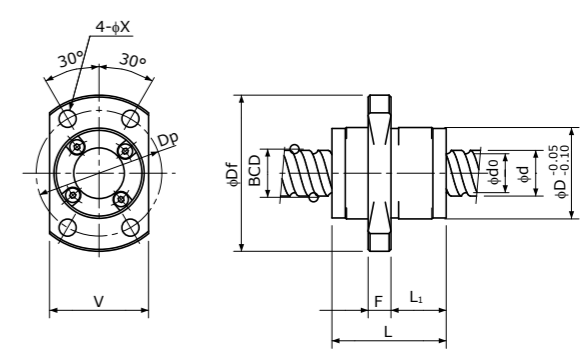
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- Rolled Ball Screws with integrated journal are available (φ12 or less only), which have larger diameter than threaded area shown below.



Type-1: Return-plate type
复式回路板循环方式



Type-2: End-deflector type
偏转器式循环方式



Type-3: End-cap type or End-deflector type
端盖循环方式或偏转器式循环方式

Unit(单位): mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸									Ball Nut Model number 螺母型号	
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp		Bolt Hole 安装孔 X
MRB 1002 **	10	2	1.5875	10.30	3°32'	8.6	3.7×1	2700	5300	134	1	23	40	24	19	5	—	25	32	4.5	MRB 1002 **
MRB 1002K	10	2	1.2	10.30	3°32'	9.0	1×3	1450	3000	93	2	17	34	19	14	5	—	21	26	4.5	MRB 1002K
MRB 1003	10	3	2.0	10.30	5°18'	8.2	3.7×1	3900	7200	140	1	24	41	29	24	5	—	26	33	4.5	MRB 1003
MRB 1004	10	4	2.0	10.30	7°03'	8.2	2.7×1	3000	5200	104	1	24	41	28	23	5	—	26	33	4.5	MRB 1004
MRB 1005	10	5	2.0	10.30	8°47'	8.2	2.7×1	3000	5200	103	2	23	40	26	21	5	—	25	32	4.5	MRB 1005
MRB 1006	10	6	2.0	10.30	10°30'	8.2	2.7×1	3000	5000	102	1	26	42	33	28	5	—	28	34	4.5	MRB 1006
MRB 1010	10	10	2.0	10.50	16°52'	8.4	1.6×2	3300	5900	117	3	23	40	24	13	5	—	25	32	4.5	MRB 1010
MRB 1012	10	12	2.0	10.50	19°59'	8.4	1.6×2	3300	6200	115	3	23	40	28	17	5	—	25	32	4.5	MRB 1012
MRB 1015	10	15	2.0	10.50	24°27'	8.4	1.6×2	3300	6400	110	3	23	40	33	22	5	—	25	32	4.5	MRB 1015
MRB 1020	10	20	1.5875	10.40	31°28'	8.7	0.7×4	2100	4000	88	3	20	37	23	13	5	—	22	29	4.5	MRB 1020
MRB 1202	12	2	1.5875	12.30	2°58'	10.6	3.7×1	3000	6400	156	1	25	42	24	19	5	—	27	34	4.5	MRB 1202
MRB 1202K	12	2	1.2	12.30	2°58'	11.0	1×3	1600	3700	109	2	19	36	19	14	5	—	23	28	4.5	MRB 1202K
MRB 1210	12	10	2.381	12.65	14°07'	10.2	1.7×2	5100	9800	152	3	24	41	30	14.5	6	—	26	33	4.5	MRB 1210

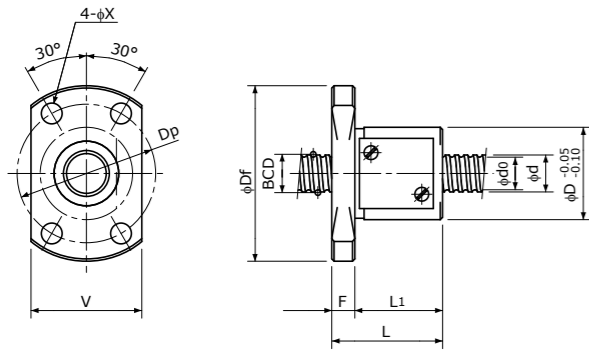
注1)标准螺纹旋向为右旋。
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 螺母型号后带**者可提供不锈钢冷轧滚珠丝杠。

Note 1) All models are Right-hand screw.
 Note 2) The diameter of the Screw Shaft both ends must be less than the Screw Shaft Root diameter, because of production and Nut assembly reason. If bigger end-journal than Shaft diameter is required, please consult KSS.
 Note 3) Ball Nut dimension is without seal at the both ends. All type of Ball Nuts cannot equip with seals.
 Note 4) Rigidity
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 Note 5) Stainless Rolled Ball Screw
 Stainless Rolled Ball Screw is available for Ball Nut Model Number marked **.

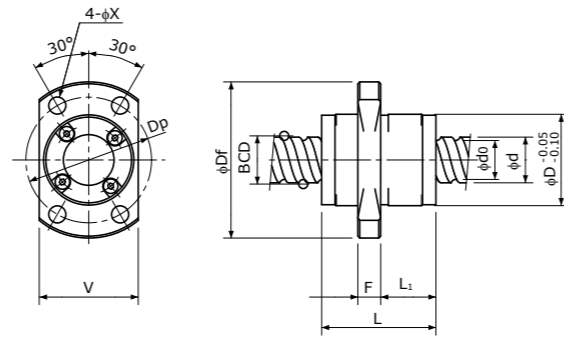
Rolled Ball Screws 冷轧滚珠丝杠

Single Nut with Flange 带法兰单螺母

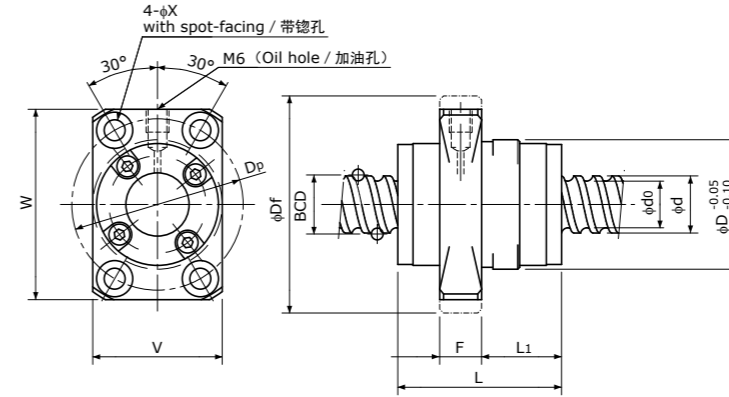
Backlash type 齿侧间隙型



Type-1: Return-plate type
复式回路板循环方式



Type-3: End-cap type or End-deflector type
端盖循环方式或偏转器式循环方式



Type-4: End-deflector type
偏转器式循环方式

Unit(单位): mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸										Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	Df	L	L ₁	F	W	V	Dp	Bolt Hole 安装孔 X	
MRB 1312	13	12	2.381	13.50	15°48'	11.0	1.6×2	5000	9900	151	3	28	45	30	17	5	—	30	37	4.5	MRB 1312
MRB 1315	13	15	2.381	13.50	19°29'	11.0	1.6×2	5000	10300	147	3	28	45	35	22	5	—	30	37	4.5	MRB 1315
MRB 1320	13	20	2.381	13.50	25°15'	11.0	1.6×2	5000	10700	142	3	28	45	43	29	5	—	30	37	4.5	MRB 1320
MRB 1402	14	2	1.5875	14.30	2°33'	12.6	3.7×1	3200	7500	176	1	26	45	25	19	6	—	28	36	5.5	MRB 1402
MRB 1404	14	4	2.381	14.30	5°05'	11.8	3.7×1	5700	11600	187	1	30	49	33	27	6	—	32	40	5.5	MRB 1404
MRB 1505	15	5	3.175	15.50	5°41'	12.2	3.7×1	8900	17000	208	4	34	57	33	16	11	50	34	45	5.5	MRB 1505
MRB 1510	15	10	3.175	15.50	11°36'	12.2	2.7×2	12000	25000	289	4	34	57	43	21	11	50	34	45	5.5	MRB 1510
MRB 1520	15	20	3.175	15.75	22°01'	12.7	1.7×2	8000	16000	178	4	34	57	52	28.5	11	50	34	45	5.5	MRB 1520

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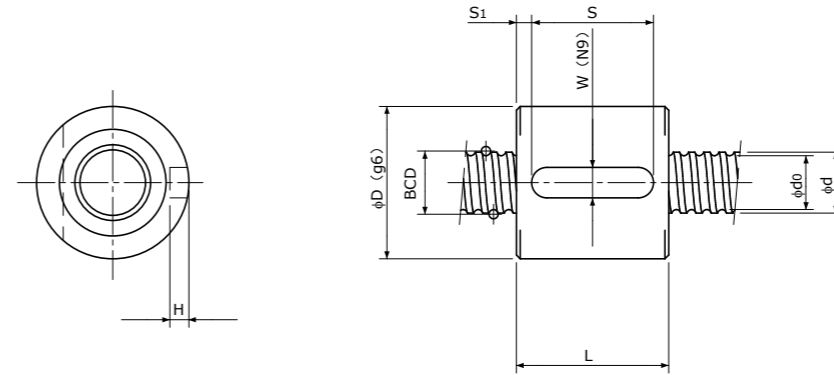
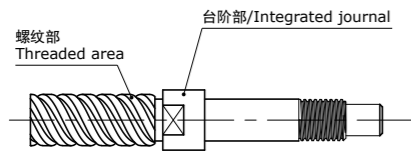
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 Note 5) Stainless Rolled Ball Screw
 Stainless Rolled Ball Screw is available for Ball Nut Model Number marked **.

Rolled Ball Screws 冷轧滚珠丝杠

Sleeve type Single Nut 套筒型单螺母

Backlash type 齿侧间隙型

- 也可生产对轴端直径进行了加粗设计的台阶型冷轧加工（下图），详情请垂询本公司。（轴端直径φ12以下）
- Rolled Ball Screws with integrated journal are available (φ12 or less only), which have larger diameter than threaded area shown below.



Unit(单位):mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸						Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		D	L	W	H	S	S ₁	
BSR 0401	4	1	0.8	4.15	4°23'	3.3	3.7×1	560	790	54	11	14	3	1.8	8	3	BSR 0401
BSR 0402	4	2	0.8	4.15	8°43'	3.3	2.7×1	420	570	39	11	16	3	1.8	8	4	BSR 0402
BSR 0504	5	4	0.8	5.15	13°53'	4.3	2.7×1	470	720	47	12	22	3	1.8	12	5	BSR 0504
BSR 0601 **	6	1	0.8	6.15	2°58'	5.3	3.7×1	680	1200	75	13	14	3	1.8	10	2	BSR 0601 **
BSR 0602	6	2	1.0	6.20	5°52'	5.1	2.7×1	750	1200	58	15	15	3	1.8	10	2.5	BSR 0602
BSR 0801 **	8	1	0.8	8.15	2°15'	7.3	3.7×1	780	1650	95	16	14	3	1.8	10	2	BSR 0801 **
BSR 0802 **	8	2	1.5875	8.30	4°23'	6.6	3.7×1	2400	4100	111	20	20	4	2.5	16	2	BSR 0802 **
BSR 0802.5	8	2.5	1.5875	8.00	5°41'	6.3	2.7×1	1850	3000	80	16	16	3	1.8	8	4	BSR 0802.5
BSR 0805	8	5	1.5875	8.30	10°51'	6.6	2.7×1	1850	3000	82	18	28	4	2.5	20	4	BSR 0805

- 注1)标准螺纹旋向为右旋。
 注2)设计时,由于生产及组装螺母的关系,请使滚珠丝杠的两个轴端不超过丝杠轴底径。
 需要单侧台阶型时,请垂询本公司。
 注3)标准螺母不带密封。
 不能安装密封,敬请注意。
 注4)刚性
 表中的刚性值,是在相当于基本额定动负载Ca的30%的轴向负载作用时,根据轴向弹性位移量计算的理论值。
 轴向负载与上述条件不同时,可通过A823页的公式计算。
 注5)不锈钢冷轧滚珠丝杠
 螺母型号后带**者可提供不锈钢冷轧滚珠丝杠。

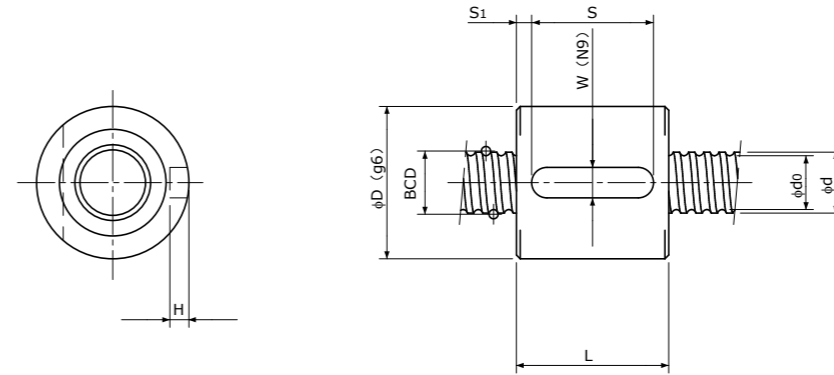
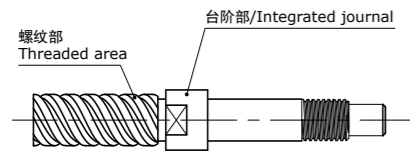
- Note 1) All models are Right-hand screw.
 Note 2) The diameter of the Screw Shaft both ends must be less than the Screw Shaft Root diameter, because of production and Nut assembly reason. If bigger end-journal than Shaft diameter is required, please consult KSS.
 Note 3) Ball Nut dimension is without seal at the both ends. All type of Ball Nuts cannot equip with seals.
 Note 4) Rigidity
 The Rigidity values shown in the table are theoretical values calculated from the amount of Elastic Displacement under the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca.
 For Axial load condition other than the above, see the formula in page A823, you can calculate Rigidity using this formula.
 Note 5) Stainless Rolled Ball Screw
 Stainless Rolled Ball Screw is available for Ball Nut Model Number marked **.

Rolled Ball Screws 冷轧滚珠丝杠

Sleeve type Single Nut 套筒型单螺母

Backlash type 齿侧间隙型

- 也可生产对轴端直径进行了加粗设计的台阶型冷轧加工（下图），详情请垂询本公司。（轴端直径φ12以下）
- Rolled Ball Screws with integrated journal are available (φ12 or less only), which have larger diameter than threaded area shown below.



Unit(单位):mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸						Ball Nut Model number 螺母型号
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		D	L	W	H	S	S ₁	
BSR 1002 **	10	2	1.5875	10.30	3°32'	8.6	3.7×1	2700	5300	134	23	20	5	3	16	2.0	BSR 1002 **
BSR 1003	10	3	2.0	10.30	5°18'	8.2	3.7×1	3900	7200	140	24	26	5	3	20	3	BSR 1003
BSR 1004	10	4	2.0	10.30	7°03'	8.2	2.7×1	3000	5200	104	24	26	5	3	20	3	BSR 1004
BSR 1005	10	5	2.0	10.30	8°47'	8.2	2.7×1	3000	5200	103	23	26	5	3	16	5	BSR 1005
BSR 1006	10	6	2.0	10.30	10°30'	8.2	2.7×1	3000	5000	102	26	31	5	3	20	5.5	BSR 1006
BSR 1202	12	2	1.5875	12.30	2°58'	10.6	3.7×1	3000	6400	156	25	20	5	3	16	2	BSR 1202
BSR 1402	14	2	1.5875	14.30	2°33'	12.6	3.7×1	3200	7500	176	26	20	5	3	16	2	BSR 1402
BSR 1404	14	4	2.381	14.30	5°05'	11.8	3.7×1	5700	11600	187	30	31	5	3	25	3	BSR 1404

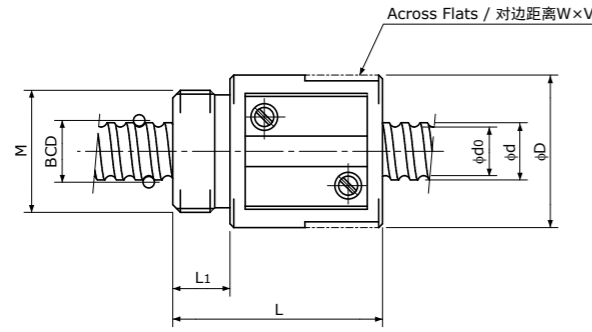
- 注1)标准螺纹旋向为右旋。
 注2)设计时,由于生产及组装螺母的关系,请使滚珠丝杠的两个轴端不超过丝杠轴底径。
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- Note 1)All models are Right-hand screw.
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 Note 4)Rigidity
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 Note 5)Stainless Rolled Ball Screw
 Stainless Rolled Ball Screw is available for Ball Nut Model Number marked **.

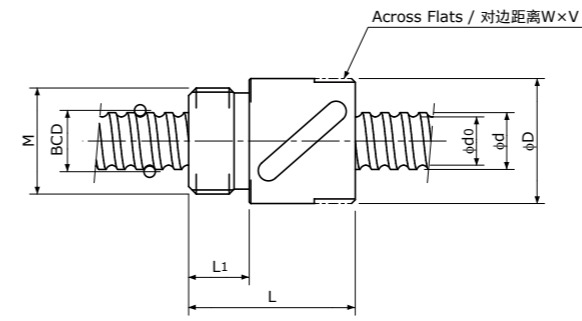
Rolled Ball Screws 冷轧滚珠丝杠

Single Nut with M-thread 带公制螺纹单螺母

Backlash type 齿侧间隙型

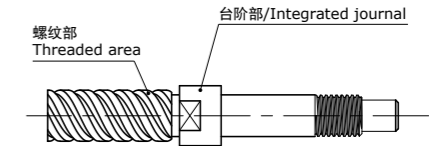


Type-1: Return-plate type
复式回路板循环方式



Type-2: Return-tube type
回路管循环方式

- 也可生产对轴端直径进行了加粗设计的台阶型冷轧加工（下图），详情请垂询本公司。（轴端直径φ12以下）
- Rolled Ball Screws with integrated journal are available (φ12 or less only), which have larger diameter than threaded area shown below.



Unit(单位):mm

Ball Nut Model number 螺母型号	Shaft nominal dia. 丝杠轴公称外径 d	Lead 导程	Ball size 丝杠直径	BCD 钢珠中心直径	Lead angle 导程角	Root dia. 底径 d ₀	Number of Circuit 循环数	Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm	Nut dimension 螺母尺寸						Ball Nut Model number 螺母型号	
								Dynamic 额定动负载 Ca	Static 额定静负载 Coa		Nut type 螺母类型	D	L	L ₁	Across Flats width 对边距离 W	Across Flats length 对边距离长度 V		M
MSR 0401 B	4	1	0.8	4.15	4°23'	3.3	3.7×1	560	790	54	1	11	17	4	10	6	M9×0.75	MSR 0401 B
MSR 0802 B **	8	2	1.5875	8.30	4°23'	6.6	3.7×1	2400	4100	111	1	20	27.5	7.5	18	5	M16×1.0	MSR 0802 B **
MSR 0802.5 T(1)	8	2.5	1.5875	8.00	5°41'	6.3	3.5×1	2300	3900	102	2	16.5	22	8	14	4	M14×1.0	MSR 0802.5 T(1)
MSR 0802.5 T(2)	8	2.5	1.5875	8.00	5°41'	6.3	3.5×1	2300	3900	102	2	17.5	25.5	7.5	15	4	M15×1.0	MSR 0802.5 T(2)
MSR 0805 A	8	5	1.5875	8.30	10°51'	6.6	2.7×1	1850	3000	82	1	18	32.5	7.5	16	5	M15×1.0	MSR 0805 A
MSR 1002 B **	10	2	1.5875	10.30	3°32'	8.6	3.7×1	2700	5300	134	1	23	27.5	7.5	21	5	M17×1.0	MSR 1002 B **
MSR 1003 B	10	3	2.0	10.30	5°18'	8.2	3.7×1	3900	7200	140	1	24	32	8	22	5	M18×1.0	MSR 1003 B
MSR 1202 B	12	2	1.5875	12.30	2°58'	10.6	3.7×1	3000	6400	156	1	25	30	10	23	5	M20×1.0	MSR 1202 B
MSR 1402 B	14	2	1.5875	14.30	2°33'	12.6	3.7×1	3200	7500	176	1	26	30	10	23	5	M22×1.5	MSR 1402 B
MSR 1404 B	14	4	2.381	14.30	5°05'	11.8	3.7×1	5700	11600	187	1	30	38	10	27	8	M25×1.0	MSR 1404 B

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