



Vol. 11.1

KSS 综合产品目录

Master Catalogue of KSS Products



前言 Introduction

承蒙客户长期以来对KSS产品的惠顾，在此深表谢意。
近几年来，随着机电一体化设备的飞速发展，
对各种机械装置也同样提出了高精度化、小型化的要求。
本公司自1960年成立以来，
以在螺纹量规(标准)生产中培育起来的超精密仪器领域制造技术为基础，
将生产范围扩大到了精密进给丝杠、微型精密滚珠丝杠的生产。
随后，又率先把握时代需求，进一步将生产领域扩大到了微型标准滚珠丝杠的生产。
这正是本公司对超精密技术不懈追求的精神与社会需求不谋而合，孜孜以求的结果。

Thank you for your interest in KSS products.
With the recent rapid development of mechatronics products, there is an ever-increasing demand for greater precision and reduced size for a wide range of mechanisms.
Since its founding in 1960, KSS has widened its manufacturing scope from a base of manufacturing technology in the ultra-precision field. Beginning with thread gauges, our product line has grown to include Precision Lead Screws, Precision Miniature Ball Screws, as well as Standard Miniature Ball Screws, that have anticipated later demand.
We are confident that such developments have resulted from our diligence in the field of ultra precision technology, which has fulfilled the needs of society.

本次，我们全新编写了KSS综合产品目录。
除了对以往标准库存品进行升级换代以外，
还增加了一些新的产品型号，并介绍了进给丝杠、树脂导程丝杠、成套产品等，
大幅提高了客户的使用便利性。

希望您能够从这些丰富多彩的产品中找到最适合您使用的产品，
也希望这些产品能够帮助您实现满足时代需求的高精密定位、驱动技术的小型化和降低成本，
并为您各种产品的设计和开发助一臂之力！

今后，为了满足客户更高的需求，
本公司将一如既往，不断积累各种技术、充分利用各种经验专长，
为开发新技术和新产品而奋勇向前。
欢迎广大客户惠顾！

With the release of this new Catalog, both standardized & customized new models have been added.
In addition, Lead Screws, Resin Lead Screws have been combined as well as Unit-products.
This catalogue is focused on the usability by including index table over the whole series.

We trust that you will be able to find all of the products you require among the comprehensive range of KSS products in this catalog, and we are sure that these products will play a vital role in meeting today's needs in precision positioning, further miniaturization in drive technology, cost reductions, and assisting in the design and development of a wide variety of products.

We will continue to apply our expertise and technology to the development of new technology and new products, as we work to satisfy our customers' most advanced needs.
We hope you find our new catalog, featuring the latest products from KSS, be helpful.



公司标志的三条边表示：

—制造部门

专业技术（Know How）
卓越品质（Super Quality）
安全运作（Safety Motion）

—营业部门

热情（Kindness）
速度（Speed）
服务（Service）

KSS这三个字母凸出三角形之外，
寓意打破陈规、锐意创新。
企业标准色为**绿色**，
体现了年轻、活泼、朝气蓬勃的企业的风貌。

What dose the KSS logo signify?

—Manufacturing Division:

Know-How
Superior Quality
Safety Motion

—Sales Division:

Kindness
Speed
Service

The letters KSS extend out from the triangular logo, symbolizing our constant technological breakthroughs.
The **green** corporate color signifies a business that is youthful, bright, and active.



KSS产品简介

Outline of KSS Products

■滚珠丝杠 / Ball Screws



标准库存品
精密滚珠丝杠 / 冷轧滚珠丝杠(A101~)
Standurd products
Precision Ball Screws / Rolled Ball Screws (A101~)

齐备有标准滚珠丝杠(SG、SD、SR、SSR、SRT、SSRT), 只需对轴端进行加工,即可按所需形状在短期内供货。
轴端形状也根据安装方式不同而实现了标准化。

These series are KSS standard Ball Screws, called SG, SR, SSR, SRT, SSRT. These types of products can be delivered shortly with end-journal machining.
End-journal profile is also standardized.

接单生产
精密滚珠丝杠 / 冷轧滚珠丝杠(A501~)
Customized products
Precision Ball Screws / Rolled Ball Screws (A501~)

为了满足客户的各种设计需求,除标准品以外,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。

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.

■油脂 / Grease



微型滚珠丝杠专用油脂 (B101~)
Original Grease for Miniature Ball Screws (B101~)

无损微型滚珠丝杠的动作性、润滑性能卓越的原装油脂。还备有无尘室专用油脂。

This grease has high lubrication performance without deteriorating Ball Screw function.
The original Grease for Clean room usage is also available.

■精密进给丝杠 / Precision Lead Screws



精密进给丝杠(C301~)
Plection Lead Screws (C301~)

可选择进给丝杠特有的小间距产品。螺纹面采用精密加工技术,是一款表面粗糙度低、导程误差小,低扭矩和低磨损的三角丝杠。

Ultra Small Pitch is available, which only Lead Screws achieve. With precise grinding technology on flank surface, fine surface roughness and low wobble become reality. This is the triangular Screw with low torque and less wear.

■树脂螺母滑动丝杠 / Lead Screws with Plastic Nuts



树脂导程丝杠(D101~)
Resin Lead Screws(D101~)

该系列采用不锈钢轴与树脂螺母的组合,实现了卓越的耐腐蚀性。是最适于轻负载搬运的经济型产品。

This series have good corrosion resistance by a combination of Stainless Shaft and Plastic Nut. It is reasonable price and suitable for transport with light Load.

■电机直连型滚珠丝杠 (滑动丝杠) / Direct Motor Drive Ball Screws (Lead Screws)



魔博系列(MB)(F101~)
MoBo series(MB) (F101~)

是在驱动丝杠(滚珠丝杠或滑动丝杠)的轴端直接连接步进电机、不需要联轴器的紧凑型直线执行元件。

This is the compact liner Actuator without Coupling.
Drive Screw(Ball Screw or Lead Screw) Shaft is mounted directly onto Motor Shaft, which leads to save total length.

■微型执行器 / Miniature Actuator



灵活可选执行器 (G101~)
Flex Actuator(G101~)

通过组合不同精度(进给丝杠)、速度(导程)、移动距离(行程)、负载(电机)的产品,可广泛用于各种用途。

There are many variety of choices among accuracy(Screw type), speed(Screw Lead), travel length and power(Motor type).

■组合产品 / Multi-purpose products



微型滚珠丝杠花键(J101~)
Miniature Ball Screw with Ball Spline(J101~)

仅使用单件产品,即可实现直动(Z)、旋转(θ)、吸附动作的组合产品。通过小径滚珠丝杠和小径滚珠花键的重叠,最大限度地实现了小型化。

This is a combined product which is possible for linear and rotational movement as well as suction at the same time with one unit.
Achieved developing very compact product as "Overlap type" using Miniature Ball Screws and Miniature Ball Splines.

■外围设备 / Attachements related KSS products



滚珠丝杠支架组件 (E101~)
Ball Screw Support Units (E101~)

KSS推出了最适合微型滚珠丝杠轴端的支架组件系列产品。请务必与滚珠丝杠配合使用。

KSS Support Units are suitable for Miniature Ball Screw end journal.
Several types of Support Units are available with Ball Screws.



步进电机驱动器(H101)
Stepping Motor Driver(H101)

是最适合KSS成套产品的步进电机驱动器。

These are recommended Stepping Motor Driver, which can be used for KSS Unit Products.

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滚珠丝杠 轴径与导程速查表

Table of Shaft dia. and Lead combination

【表中各符号的含义 / Description】

Shaft dia. 轴径(㎜)	Lead / 导程(mm)	
	0.5	
	1.8	A505 FBS
3	A205 SG	A505 FBS

Standard Products in stock / 标准库存品

Customized Products / 接单生产

Model No. / 型号

page / 刊载页码

按螺母形状分类的精密滚珠丝杠及冷轧滚珠丝杠的型号一览表 / Nut style list for Precision Ball Screws & Rolled Ball Screws.

Nut style/螺母形状	Precision Ball Screws/精密滚珠丝杠				Rolled Ball Screws/冷轧滚珠丝杠			
	Standard Products/标准库存品		Customized Products/接单生产		Standard Products/标准库存品		Customized Products/接单生产	
Single Nut with Flange/带法兰单螺母	SG		FKB FBS FDB FEB		SR SSR SRT SSRT		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		—		—	
Double Nut with Flange/带法兰双螺母	—		FSBS		—		—	
Sleeve type Double Nut/套筒型双螺母	—		SWBS		—		—	
Bi-directional Nut with Flange/双向螺母	SD		FBS* FKB*		—		—	

※标准库存品的详情请参照第A201页。 注)*表示双向螺母。
※Please refer to page A201 regarding the detail of Standard Products Note)* means Bi-directional Nut with Flange.

轴径-导程速查表(按型号分类) / Table of Shaft dia. and Lead combination(Model distinction)

	Lead / 导程 (mm)													Lead / 导程 (mm)															
	0.5		1		1.5	2		2.5		3	4			5		6		8		10		12		15		20		25	30
Shaft dia. 轴径 (mm)	1.8		A505 FBS																										
	3	A205 SG	A505 FBS	A206 SG	A505 FBS A529 BS																								
	4		A505 FBS	A207 SG A237 SD A245 SR A281 SRT	A505 FKB A505 FBS A529 BS A539 MS A557 FKB* A557 FBS* A567 MRB A573 BSR A577 MSR		A208 SG A246 SR A282 SRT			A505 FBS A529 BS		A505 FEB																	
	5		A507 FBS		A507 FKB A507 FBS A529 BS A557 FKB* A557 FBS*						A209 SG A247 SR A283 SRT	A507 FBS A529 BS A567 MRB A573 BSR																	
	6		A509 FBS	A210 SG A238 SD A248 SR A273 SSR A284 SRT A301 SSRT	A509 FKB A509 FBS A529 BS A543 KS A557 FKB* A557 FBS* A567 MRB A573 BSR	A509 FBS A529 BS	A211 SG A249 SR A285 SRT		A212 SG	A509 FBS A529 BS A545 FSBS A551 SWBS						A213 SG A250 SR A286 SRT	A509 FEB A567 MRB		A214 SG A251 SR A287 SRT	A509 FEB A567 MRB		A509 FEB							
	8		A511 FBS	A215 SG A239 SD A252 SR A274 SSR A288 SRT A302 SSRT	A511 FKB A511 FBS A531 BS A543 KS A557 FKB* A539 MS A557 FBS* A567 MRB A573 BSR	A511 FKB A511 FBS A531 BS A539 MS A557 FKB* A557 FBS*	A216 SG A240 SD A253 SR A275 SSR A289 SRT A303 SSRT		A217 SG A254 SR A290 SRT	A513 FDB A513 FBS A531 BS A539 MS A545 FSBS A551 SWBS A567 MRB A573 BSR A577 MSR	A513 FBS A531 BS A539 MS A545 FSBS A551 SWBS	A218 SG	A513 FBS A531 BS A539 MS		A219 SG A255 SR A291 SRT	A513 FBS A531 BS A539 MS A567 MRB A573 BSR A577 MSR		A220 SG A256 SR A292 SRT	A513 FEB A567 MRB	A257 SR	A513 FEB A567 MRB	A221 SG A258 SR A293 SRT	A513 FEB A567 MRB						
	10			A222 SG	A515 FKB A515 FBS A533 BS A543 KS A559 FKB* A559 FBS*	A515 FKB A515 FBS A533 BS A559 FKB* A559 FBS*	A223 SG A241 SD A259 SR A276 SSR A294 SRT A304 SSRT			A515 FKB A515 FBS A533 BS A547 FSBS A553 SWBS A559 FKB* A559 FBS*	A517 FBS A533 BS A547 FSBS A553 SWBS A559 FBS*	A224 SG A260 SR		A225 SG A261 SR A295 SRT	A517 FDB A517 FBS A533 BS A559 FBS* A569 MRB A575 BSR		A569 MRB A575 BSR		A226 SG A262 SR A296 SRT	A517 FEB A569 MRB		A517 FEB A569 MRB	A227 SG A263 SR A297 SRT	A517 FEB A569 MRB	A264 SR A298 SRT	A517 FEB A569 MRB	A517 FEB	A517 FEB	
	12				A519 FKB A519 FBS A535 BS A561 FKB* A561 FBS*		A228 SG A242 SD A265 SR A299 SRT			A519 FKB A519 FBS A535 BS A547 FSBS A553 SWBS A561 FKB* A561 FBS* A571 MRB A575 BSR A577 MSR	A519 FKB A519 FBS A535 BS A547 FSBS A553 SWBS A561 FKB* A561 FBS*			A519 FBS A535 BS A541 MS A547 FSBS A553 SWBS A561 FBS*				A229 SG A266 SR A300 SRT	A519 FEB A571 MRB										
	13																					A521 FEB A571 MRB		A521 FEB A571 MRB		A521 FEB A571 MRB			
	14				A523 FBS A535 BS A563 FBS*		A230 SG A267 SR			A523 FKB A523 FBS A535 BS A549 FSBS A555 SWBS A563 FKB* A563 FBS* A571 MRB A575 BSR A577 MSR	A523 FKB A523 FBS A535 BS A549 FSBS A555 SWBS A563 FKB* A563 FBS*	A231 SG A268 SR	A523 FKB A523 FBS A535 BS A549 FSBS A555 SWBS A563 FKB* A563 FBS* A571 MRB A575 BSR A577 MSR		A232 SG A269 SR	A525 FEB A525 FBS A571 MRB					A233 SG A270 SR	A525 FEB A525 FBS A571 MRB				A234 SG A271 SR	A525 FEB A525 FBS A571 MRB		A525 FEB
15											A525 FBS			A232 SG A269 SR	A525 FEB A525 FBS A571 MRB					A233 SG A270 SR	A525 FEB A525 FBS A571 MRB				A234 SG A271 SR	A525 FEB A525 FBS A571 MRB		A525 FEB	
16				A527 FBS A537 BS A565 FBS*					A527 FKB A527 FBS A537 BS A549 FSBS A555 SWBS A565 FKB* A565 FBS*	A527 FKB A527 FBS A537 BS A549 FSBS A555 SWBS A565 FKB* A565 FBS*		A527 FKB A527 FBS A537 BS A549 FSBS A555 SWBS A565 FKB* A565 FBS*			A527 FBS A537 BS A549 FSBS A555 SWBS A565 FBS*														
20															A527 FBS						A527 FBS								

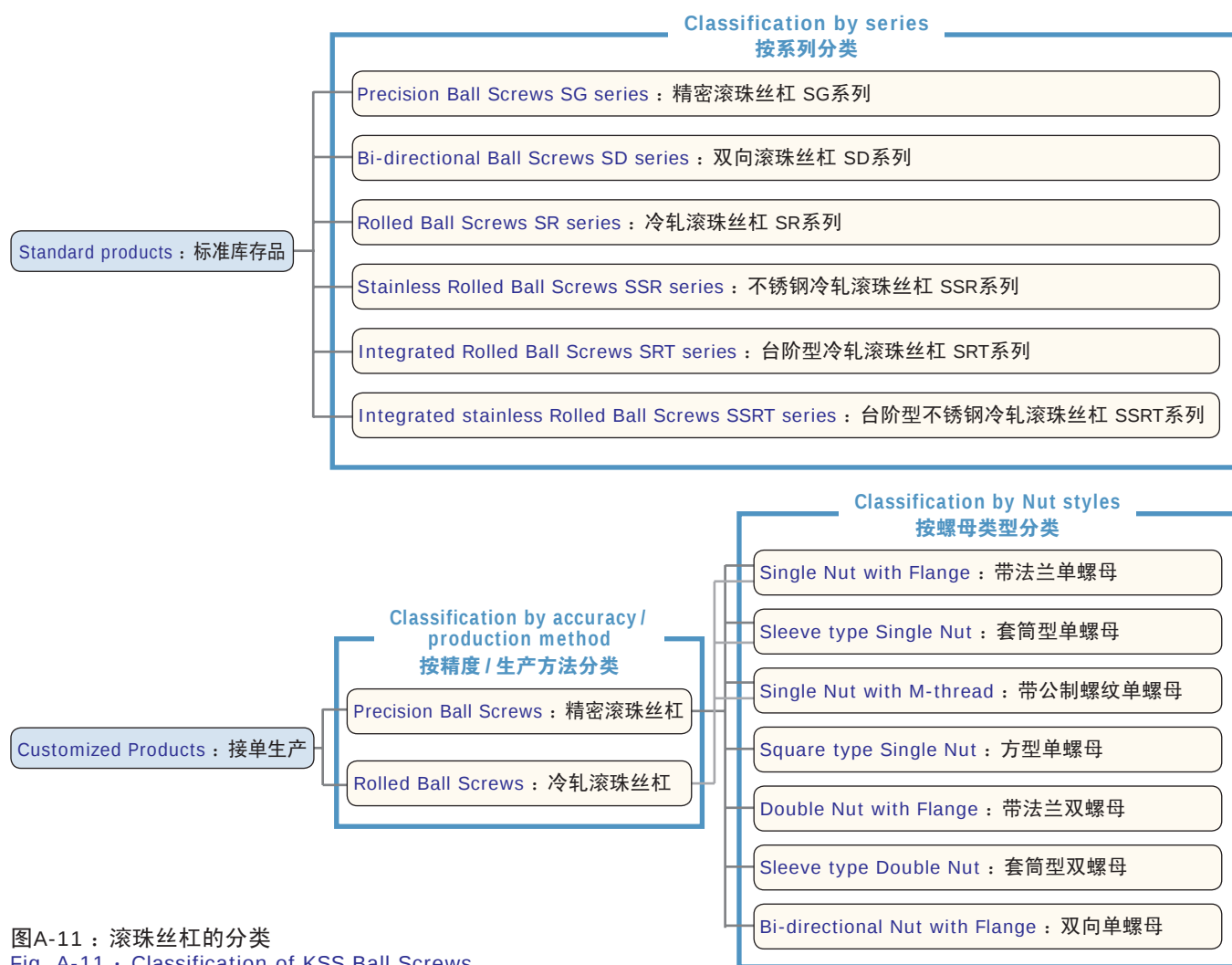
滚珠丝杠篇 Ball Screws

序言 Outline

自1964年开始生产、销售滚珠丝杠以来，作为微型滚珠丝杠行业的先锋，本公司一直积极致力于各种产品的开发。本次，在即将迎来公司成立50周年之际，我们将迄今为止所开发的各种产品荟萃在了这本产品目录中，并从注重实用性的角度出发，对内容进行了修订。

●KSS滚珠丝杠的分类

为了让您进一步深入了解KSS滚珠丝杠，以下对本公司滚珠丝杠的种类和分类进行了说明。



图A-11：滚珠丝杠的分类
Fig. A-11 : Classification of KSS Ball Screws

●标准库存品

为满足客户要求，实现短期交货，本公司备有特定型号的标准库存品。轴端形状实现了标准化，可有效缩减客户的设计时间。此外，凭借本公司独有的追加加工技术，可对轴端进行高精度加工。如图A-11所示，标准库存品种类繁多，精密滚珠丝杠、冷轧滚珠丝杠均可从中选择。

Since KSS started production and sales of Ball Screw in 1964, we have been working on product development as a pioneer of Miniature Ball Screws. At this time, prior to 50 years anniversary, we have combined developed products until now into one catalogue, revised and focused on usability contents.

●Classification of KSS Ball Screws

For better understanding of KSS Ball Screws, kinds and classification of KSS Ball Screws are as follows.

●Standard Products

To meet customer's request of quick delivery, KSS has specified model type in stock. The end-journal configuration is standardized and it is possible to reduce numbers of design process by customer. Moreover, since we have end machining knowhow, high accurate end machining is possible. Standard products can be chosen from many kinds of Precision Ball Screws and Rolled Ball Screws shown in Fig. A-11.

●接单生产

对于标准库存品以外的型号，本公司承接各种接单生产。为减少客户在设计方面花费的时间，螺母尺寸按照图A-11所示的螺母类型，实现了不同型号尺寸的标准化。对于非标准化的型号、形状、尺寸，如果您有需求，可随时咨询洽谈。此外，本公司还提供不锈钢、特殊材料的产品及表面处理等，欢迎垂询。

●精密滚珠丝杠和冷轧滚珠丝杠

本公司的滚珠丝杠生产工序因客户的精度要求而异。大体可分为采用研磨加工制成的高精度精密滚珠丝杠和采用滚丝模形成螺纹槽的冷轧滚珠丝杠。C5以上精度等级的滚珠丝杠一般采用研磨加工（精密滚珠丝杠），C7、C10级的滚珠丝杠则采用冷轧加工。对于无滚丝模（冷轧加工模具）的型号，也可采用研磨加工生产C7、C10级产品。



通过螺纹磨床进行的高精度螺纹槽加工
High accurate shaft groove process by Grinding machine



通过滚丝模进行的冷轧加工
Rolling process by Rolling dies

●质量和环保活动 Approach of quality and environment



KSS滚珠丝杠包括设计、制造在内，通过了ISO-9001认证，并具备完善的出厂检查、可追溯性等质量管理体系，可放心使用。
KSS Ball Screws including design, production are qualified by ISO-9001. Since quality management system such as shipping inspection, traceability is organized, KSS products can be used with safety.



在环境方面，本公司不仅通过了ISO-14001认证，还积极使用符合RoHS指令的零件，致力于环保型设计和削减CO₂排量。
For environmental side, KSS is qualified by ISO-14001. We make an effort to reduce CO₂ and take care of environmentally friendly design by using parts, which conform to RoHS regulation.

●出口管理

本公司的产品、技术出口均以遵守外汇法、外贸法及其他相关法令为基本方针。因此，本公司谢绝以军事用途（大规模杀伤武器、武器与兵器相关领域）为目的的产品出口。关于本公司产品是否属于出口管理法中管制物品清单的管制对象，请登录KSS网站查看。
<http://www.kssballscrew.com/cn/index.htm>
此外，希望获取KSS受管与否判断资料时，请在KSS网站上填写受管与否判断委托书后与本公司联系。

●Customized products

Products other than standardized model are customized products. To reduce numbers of design process by customer, dimensions of each model are standardized as Nut type shown in Fig. A-11. Please consult KSS if you need products which are not standardized model, configuration, dimension are requested. Please also inquire KSS when stainless steel products, special material, surface treatment are needed.

●Precision Ball Screws and Rolled Ball Screws

Production procedures vary by accuracy requested from customers. Precision Ball Screws with high accuracy by Grinding process and Rolled Ball Screws with formed groove by Rolling dies (Tooling for Rolling process) can be classified. Generally, C5 or higher grade is manufactured by Grinding process and accuracy of C7, C10 are manufactured by Rolling process. It is also possible to produce C7, C10 by Grinding when Rolling dies do not exist.

●Export administration

Our policy is to comply with Foreign Exchange, Foreign Trade Act, and other related laws when KSS products and technologies are exported. Therefore if the purpose of using our products is military use (weapon of mass destruction, things related with arms), we decline to export our products. Please refer to KSS homepage regarding list regulation by Export administration.
<http://www.kssballscrew.com>

标准库存品

Standard Products

KSS滚珠丝杠标准库存品分为以下几类。如选择这些标准库存品,即可在短期内供货。

●精密滚珠丝杠 Precision Ball Screws



SG系列(精密滚珠丝杠) SG series(Precision Ball Screws)

- 通过将固定侧轴端形状标准化、支撑侧轴端自由化,设定标准行程。
- 支撑侧轴端未进行加工,因此可根据所需行程进行追加加工。
- 分为C3(轴向间隙为0)、C5(轴向间隙为5μm以下)两种。
- Configuration of fixed side end-journal is standardized, supported side end-journal is free type and standard travel is set up.
- Since supported side end-journal is unfinished, it is possible to do additional end machining with your requested thread length.
- There are C3(Axial play 0), C5(Axial play 5μm or less) available.



SD系列(精密双向滚珠丝杠) SD series(Bi-directional Ball Screws)

- 可单轴左右开闭的经济型滚珠丝杠。
- 库存品的固定侧、支撑侧轴端均未进行加工,提高了设计自由度。
- 分为C3(轴向间隙为0)、C5(轴向间隙为5μm以下)两种。
- These are economical Ball Screws because a shaft has bi-directional thread.
- Since fixed and supported side end-journal are unfinished, design flexibility is enlarged.
- There are C3(Axial play 0), C5(Axial play 5μm or less) available.

●冷轧滚珠丝杠 Rolled Ball Screws



SR系列(冷轧滚珠丝杠)/SSR系列(不锈钢冷轧滚珠丝杠) SR series(Rolled Ball Screws) / SSR series(Stainless Rolled Ball Screws)

- 通过槽冷轧加工制成的经济型库存品。
- 库存品的固定侧、支撑侧轴端均未进行加工,提高了设计自由度。
- 分为Ct7(轴向间隙20μm以下)、Ct10(轴向间隙50μm以下)两种。
- 不锈钢材质的冷轧滚珠丝杠(SSR系列)也备有的标准库存品。
- Standard and reasonable price products by Rolling formed process.
- Since fixed and supported side end-journal are unfinished, design flexibility is enlarged.
- There are Ct7(Axial play 20μm or less), Ct7(Axial play 50μm or less) available.
- There are also Rolled Ball Screws made of stainless steel(SSR series) in stock.



SRT



SSRT

SRT系列(台阶型冷轧滚珠丝杠)/SSRT系列(台阶型不锈钢冷轧滚珠丝杠) SRT series(Integrated Rolled Ball Screws) SSRT series(Integrated stainless Rolled Ball Screws)

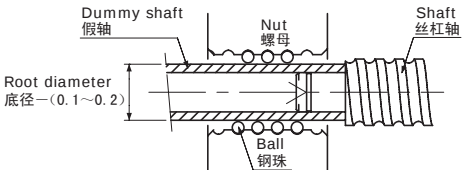
- 冷轧滚珠丝杠库存品的固定侧轴端较粗,未进行加工。
- 与传统冷轧滚珠丝杠相比,进一步提高了设计自由度。
- 轴端形状采用可与SG系列兼容的设计。
- 备有台阶型不锈钢冷轧滚珠丝杠(SSRT系列)的标准库存品。
- Fixed side end-journal is set up bigger than Shaft nominal diameter and unfinished.
- More design flexibility compared to current Rolled Ball screws.
- It is possible to design end-journal configuration compatible with SG series.
- There are also Integrated Rolled Ball Screws made of stainless steel(SSRT series) in stock.

KSS has several varieties of standard products as follows. It is possible to make quick delivery to customers by using standard products.

●轴端追加加工

凭借本公司独有的追加加工技术,可进行无精度劣化的轴端加工。如需轴端追加加工,请与本公司联系。追加加工时的注意事项如下所示。

- 1)建议由本公司进行轴端追加加工。如果由其他公司进行轴端追加加工,本公司将不能保证追加加工后的精度,敬请谅解。
- 2)对于产品目录中所示标准形状以外的追加加工,请附上追加加工指示图(示意图)进行指示。
- 3)由于不进行螺母的追加加工,因此请对照尺寸表设计法兰形状等。
- 4)润滑
使用滚珠丝杠时,请务必涂抹润滑剂。
KSS标准库存品以长期存放为前提,因此在涂抹防锈油后进行了真空包装。
如果在委托追加加工时指定了润滑剂,交货时将在滚珠丝杠上涂抹该指定润滑剂。
此外,防锈油并非润滑剂,使用前请用精制煤油等清洗滚珠丝杠,去除防锈油后涂抹润滑剂(油脂或润滑油)。
请每隔2~3个月检查一次油脂。使用过程中油脂变脏时,请擦去旧的油脂后涂抹新油脂。
- 5)螺母的自重下落
以间隙规格使用滚珠丝杠时,螺母会因自重而下落,敬请注意。
- 6)由客户进行的追加加工
对于客户自行进行的追加加工,本公司将不予保证精度。不得已而由客户自行进行追加加工时,除上述注意事项外,还应注意以下各点。
 - 防止粉尘进入螺母内部
追加加工时,请注意防止粉尘进入螺母内部。
不拆下螺母而直接对丝杠轴进行追加加工时,请用塑料袋等包住螺母、或用胶带密封螺母两端,切实保护螺母。
 - 拆下螺母时
拆下螺母时,请按照图A-21所示使用假轴。假轴根据客户要求提供。
通过假轴拆卸或重新组装螺母时,请在确认钢珠与螺纹槽啮合的同时,沉着缓慢地进行操作。
 - 追加加工后的清洗
追加加工后,请用清洁的精制煤油将附着在滚珠丝杠上的脏物清洗干净。
 - 涂抹润滑剂
使用追加加工后的产品之前,请先涂抹润滑剂。
 - 存放
追加加工后需长期存放时,请切实进行防锈处理。



图A-21 : 拆卸假轴和螺母
Fig. A-21 : Dummy shaft and Nut removal

- 1)We recommend additional end-journal machining is done by KSS. We do not guarantee accuracy after re-works done by other than KSS.
- 2)When additional end-journal machining other than standard configuration in catalogue is requested, please send us drawing with end-journal profile on it.
- 3)Additional machining is not applied to the Nut. Please design flange configuration according to our dimension table.
- 4)Lubrication
In Ball Screws use, lubricant should be applied on them.
KSS Ball Screws are in vacuum wrapping with anti-rust oil due to purpose for long term stock.
If you need specified lubricant, we will supply Ball Screws with lubricant you requested when requesting additional end-journal machining.
Since anti-rust oil is not lubricant, Ball Screws should be washed off anti-rust oil with clean Kerosene and apply lubricant (Grease or lubricating oil).
Please check the lubricant condition every 2 or 3months. If grease is contaminated, remove old grease, and replace with the new one.
- 5)Ball Nut falling by weight
If Ball Screw is not preloaded, Ball Nut will fall down due to its own weight. Care must be taken.
- 6)Additional end-journal machining by customer
Additional end-journal machining done by customer is out of our guarantee, but in case of unavoidably conducting, please take caution regarding above precautions as well as following points.
 - Invasion of dust inside Nut
Care must be taken regarding invasion of dust inside Nut when additional end-journal machining.
If additional end-journal machining is being done to the Shaft with Ball Nut, wrap the Nut with vinyl, sealing up both ends and surely protect it from dust.
 - Nut removal
In case of Nut removal, please use dummy shaft shown in Fig. A-21. We can supply dummy shaft with products if you request.
Make sure Balls and Screw Shaft groove are meshing correctly and remove the Nut slowly as well as re-assembling.
 - Cleaning after additional end-journal machining
After additional end-journal machining, Ball Screws should be washed dust off with clean Kerosene.
 - Applying lubrication
After additional end-journal machining, apply lubricant before using Ball Screw.
 - Storage
After additional end-journal machining, surely conduct anti-rust treatment when Ball Screws are in long term stock.

SG系列 精密滚珠丝杠标准库存品

SG series Standardized Precision Ball Screws

齐备有C3级、C5级精密滚珠丝杠，固定侧轴端事先经过标准化加工。
只要对支撑侧轴端进行加工，便可按所需形状在短期内供货。

Precision Ball Screws which are accuracy C3, C5 and have machined shaft end at fixed side in advance are available. Short delivery is available by machining supported end in accordance with customer's request.

●丝杠轴公称外径与导程的组合 Combination of Shaft nominal dia. & Lead Unit(单位): mm

Lead 导程	0.5	1	2	2.5	4	5	6	8	10	12	15	20
Shaft dia. 公称外径												
3	A205	A206										
4		A207	A208									
5					A209							
6		A210	A211	A212			A213		A214			
8		A215	A216	A217	A218	A219		A220		A221		
10		A222	A223		A224	A225			A226		A227	
12			A228						A229			
14			A230		A231							
15						A232			A233			A234

注1) 表中的数字表示产品刊载页码。
Note 1) The numbers in a table : showing a page in this catalogue.

●精度等级和轴向间隙
SG系列（精密滚珠丝杠标准库存品）的精度等级有JIS C3和JIS C5两种。轴向间隙根据精度等级不同备有0mm（预压：C3）和0.005mm以下（C5）两种。

●材质和表面硬度
SG系列（精密滚珠丝杠标准库存品）的丝杠轴和螺母均采用SCM415（渗碳淬火），滚珠丝杠部分的表面硬度为HRC58~62。

●润 滑
为防止生锈，未对轴端进行加工的SG系列（精密滚珠丝杠标准库存品）产品均涂抹有防锈油。由于防锈油不具备润滑性，因此在使用前请另行涂抹润滑剂。
如无特殊指定，建议使用KSS原装润滑油脂（MSG No.2）。

●接单生产
上述标准品以外的产品均为接单生产。详情请垂询本公司。

●Accuracy Grade & Axial play
Accuracy grade of SG series (Standardized Precision Ball Screws) are based on JIS C3 and JIS C5. According to accuracy grade, Axial play 0 (Preload : C3) and 0.005mm or less (C5) are in stock.

●Material & Surface hardness
SG series (Standardized Precision Ball Screws) consists of Shaft and Nut materials SCM415 (Carburizing and quenching) and Surface hardness is HRC58~62.

●Lubrication
SG series (Standardized Precision Ball Screws) without end-journal machining will be applied with anti-rust oil for rust prevention. Anti-rust oil does not have lubricating function so that please apply Grease or lubrication oil when using the Ball Screws.
If there is no specific instruction, KSS would recommend our original Grease (MSG No.2) as standard lubricant.
Please feel free to contact us.

●Customized products
It will be a customized product other than the above. Please ask KSS.

●公称型号的构成
希望对SG系列进行追加加工时，请用以下公称型号进行指示。

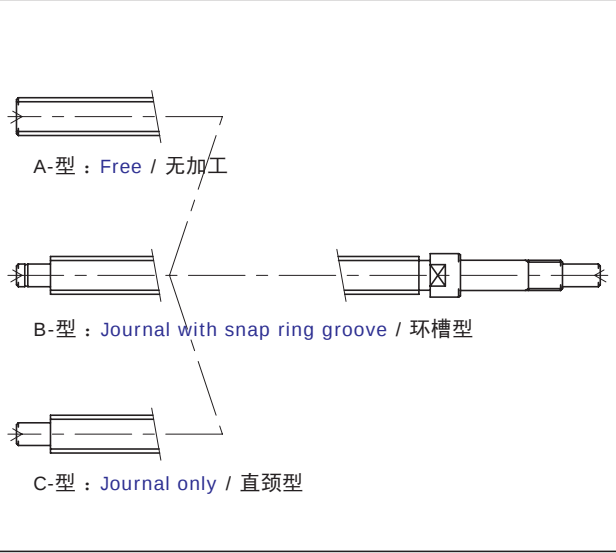
SG 04 01 — 046 R 085 C3 B 1 X
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ①系列符号
- ②丝杠轴公称外径(mm)
- ③导程(mm)
- ④螺纹部长度(mm)
(追加加工后以1mm为单位指定)
- ⑤螺纹旋向(R=右旋)
- ⑥丝杠轴总长(mm)
(以1mm为单位指定)
- ⑦精度等级(C3或C5)
- ⑧支撑侧轴端加工型
(参照图A-22: A型、B型、C型)
- ⑨涂抹的油脂
0: 本公司推荐的润滑脂(MSG No.2)
1: 防锈油(Non Ruster PZ2)
2: Multemp PS2
3: 其他
- ⑩螺母法兰朝向(参照图A-23)

●Model number notation
Please use model number below when additional end-journal machining is requested.

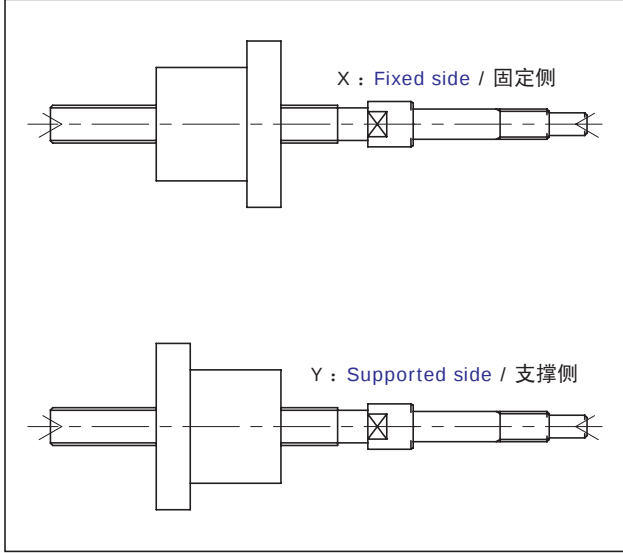
- ①Ball Screws Series No.
- ②Screw Shaft nominal diameter(mm)
- ③Lead(mm)
- ④Screw thread length(mm)
(Specify in 1mm units after end-journal machining)
- ⑤Thread direction(R=Right-hand)
- ⑥Screw Shaft total length(mm)
(Specify in 1mm units)
- ⑦Accuracy grade(C3 or C5)
- ⑧Shaft supported end profile
(Refer to Fig. A-22 below : A-type,B-type,C-type)
- ⑨Anti-rust oil or Lubricant
0: KSS grease (MSG No.2)
1: Anti-rust oil(Non Ruster PZ2)
2: Multemp PS2 grease
3: Other
- ⑩Nut Flange direction (Refer to Fig. A-23 below)

图A-22 : 支撑侧轴端加工型
Fig. A-22 : Shaft supported end profile



注1)各种规格的轴端形状在各页中有详细介绍。
注2)不进行螺母的追加加工。
注3)本规格若有变更，恕不另行通告。
注4)希望进行A、B、C以外的轴端加工时，请垂询本公司。

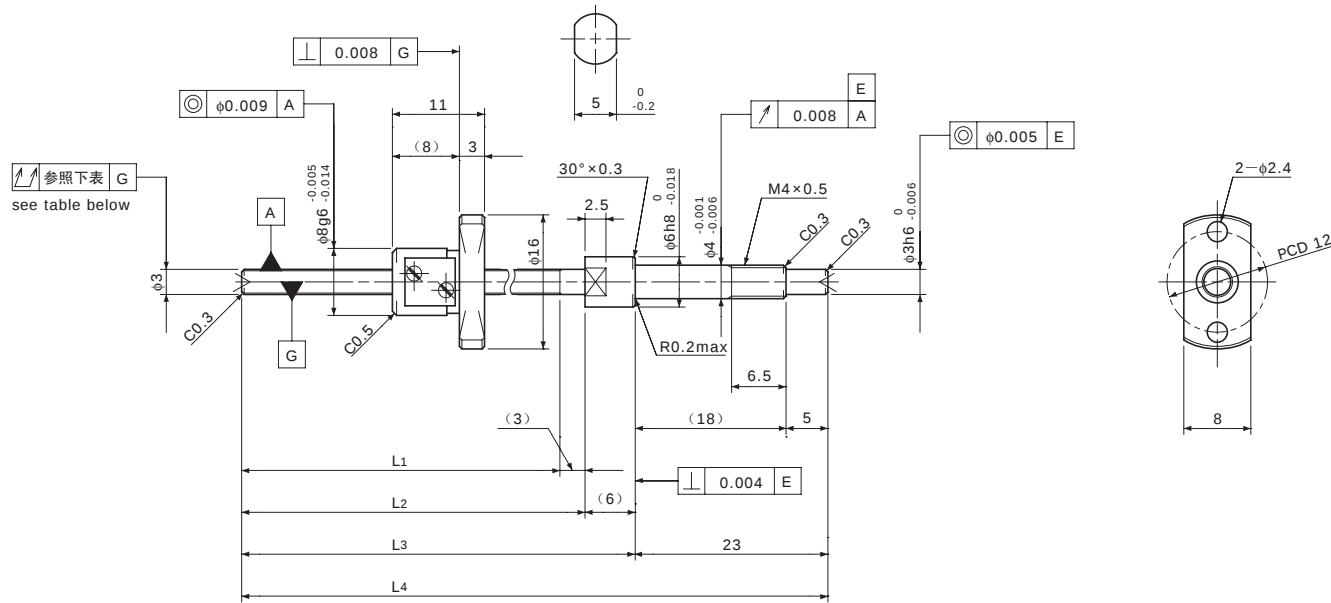
图A-23 : 螺母法兰朝向
Fig. A-23 : Nut Flange direction



Note 1)The detail of end-journal dimension for each size is shown from next page.
Note 2)KSS does not make additional Nut machining.
Note 3)The specification is subject to change without notice.
Note 4)If the other configuration except (A,B,C)is requested, please contact KSS.

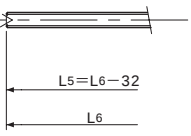
Standard products in stock SG series
标准库存品 SG系列

SG0300.5 | Shaft dia.(轴径) $\phi 3$ Lead(导程)0.5mm | C3



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	$\phi 0.4$
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	$\phi 2.6$
Number of circuit 循环数	2.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	
	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧 : — Fixed-side 固定侧 : MSU-4C/4G, EK4

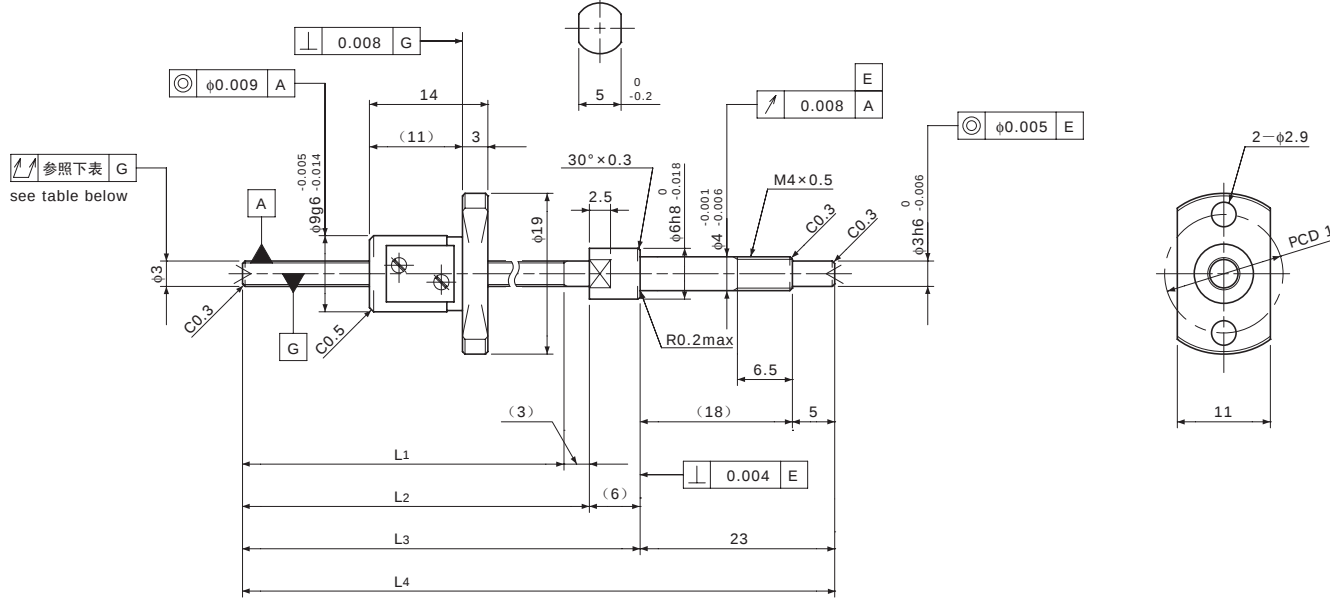
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	L ₄	Travel deviation 代表移动量误差 e _p	Variation 波动 V _u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG0300.5-038R070C3	25	C3	38	41	47	70	±0.008	0.008	0.025	~0.005	—	150	220

Note)Please refer to p-A204 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A204。

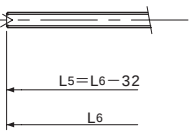
Standard products in stock SG series
标准库存品 SG系列

SG0301 | Shaft dia.(轴径) $\phi 3$ Lead(导程)1mm | C3



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	$\phi 0.6$
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	$\phi 2.4$
Number of circuit 循环数	3.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	
	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧 : — Fixed-side 固定侧 : MSU-4C/4G, EK4

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	L ₄	Travel deviation 代表移动量误差 e _p	Variation 波动 V _u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG0301-038R070C3	20	C3	38	41	47	70	±0.008	0.008	0.025	~0.005	—	330	440

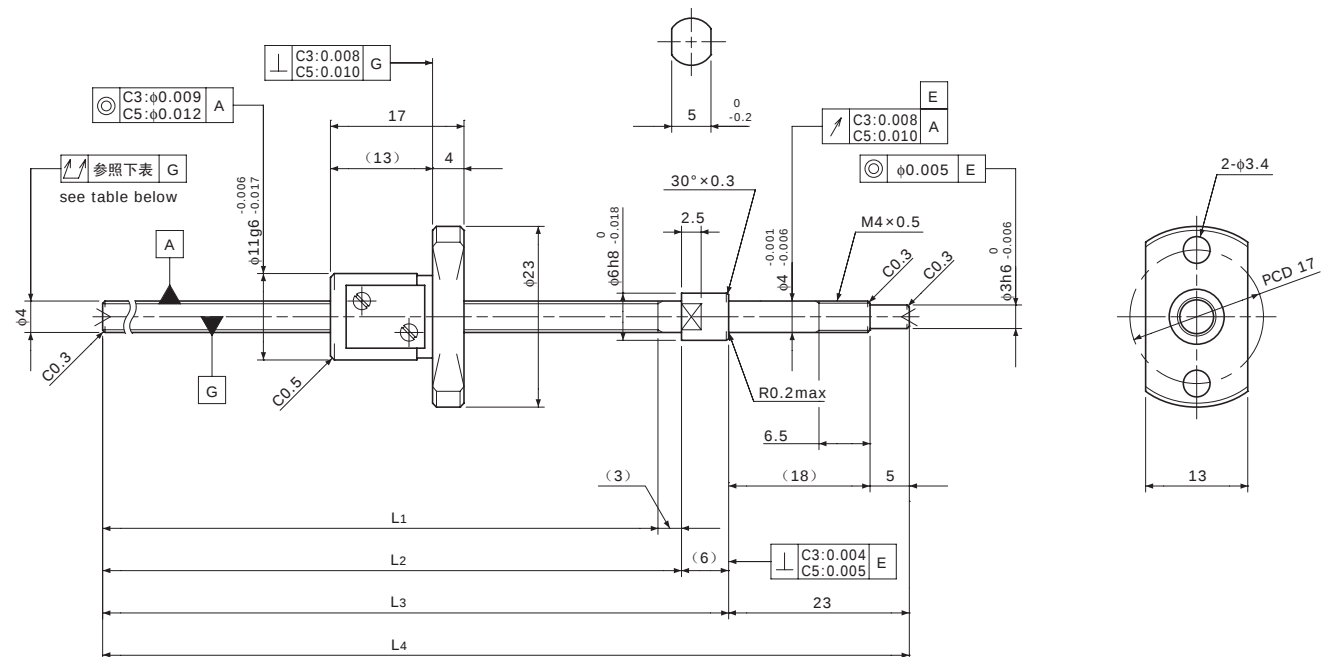
Note)Please refer to p-A204 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG0401

Shaft dia.(轴径)φ4 Lead(导程)1mm

C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ0.8
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ3.3
Number of circuit 循环数	3.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	B型
C型	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧 : MSU-4CS/4GS, SUP03-S Fixed-side 固定侧 : MSU-4C/4G, EK4

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e _p	Variation 波动 V _u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG0401-063R095C3	45	C3	63	66	72	95	±0.008	0.008	0.025	0 Spacer Ball 间隔钢珠 (1:1)	~0.004	350	400
SG0401-083R115C3	65	C3	83	86	92	115	±0.008	0.008	0.025				
SG0401-103R135C3	85	C3	103	106	112	135	±0.010	0.008	0.035				
SG0401-063R095C5	45	C5	63	66	72	95	±0.018	0.018	0.035	~0.005	—	560	790
SG0401-083R115C5	65	C5	83	86	92	115	±0.018	0.018	0.035				
SG0401-103R135C5	85	C5	103	106	112	135	±0.020	0.018	0.050				

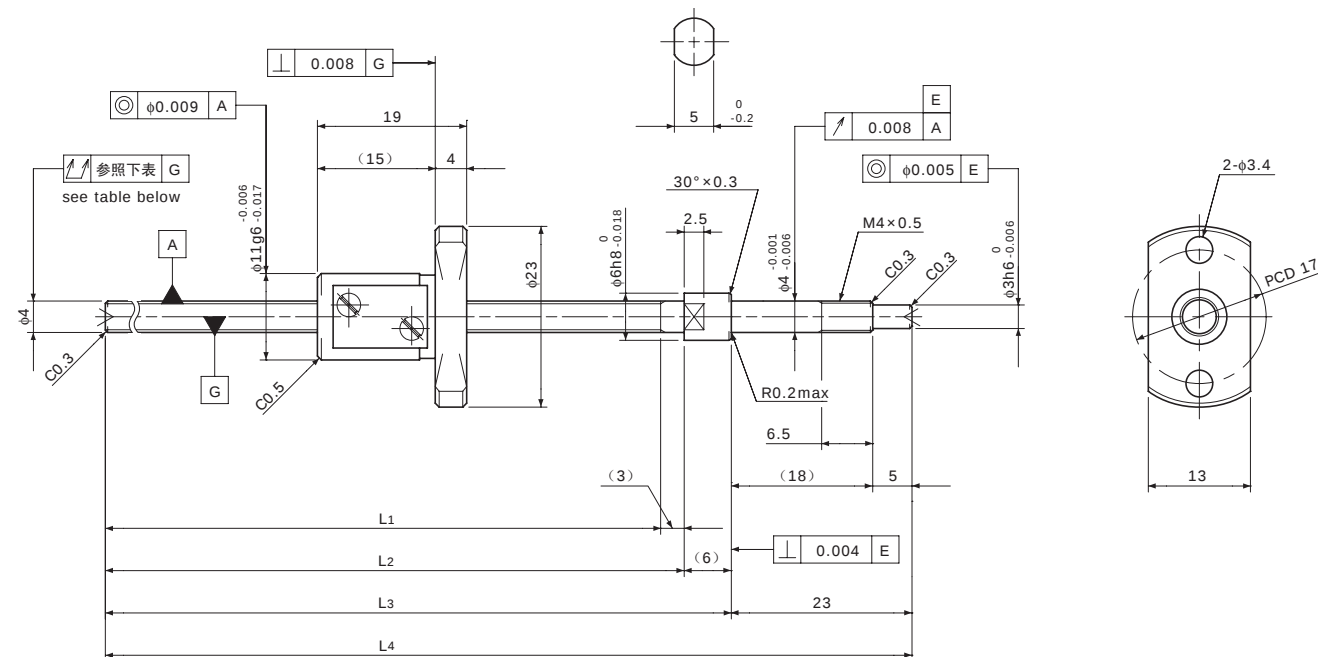
Note)Please refer to p-A204 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG0402

Shaft dia.(轴径)φ4 Lead(导程)2mm

C3



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ0.8
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ3.3
Number of circuit 循环数	2.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	B型
C型	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧 : MSU-4CS/4GS, SUP03-S Fixed-side 固定侧 : MSU-4C/4G, EK4

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e _p	Variation 波动 V _u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG0402-103R135C3	80	C3	103	106	112	135	±0.010	0.008	0.035	~0.005	—	420	570

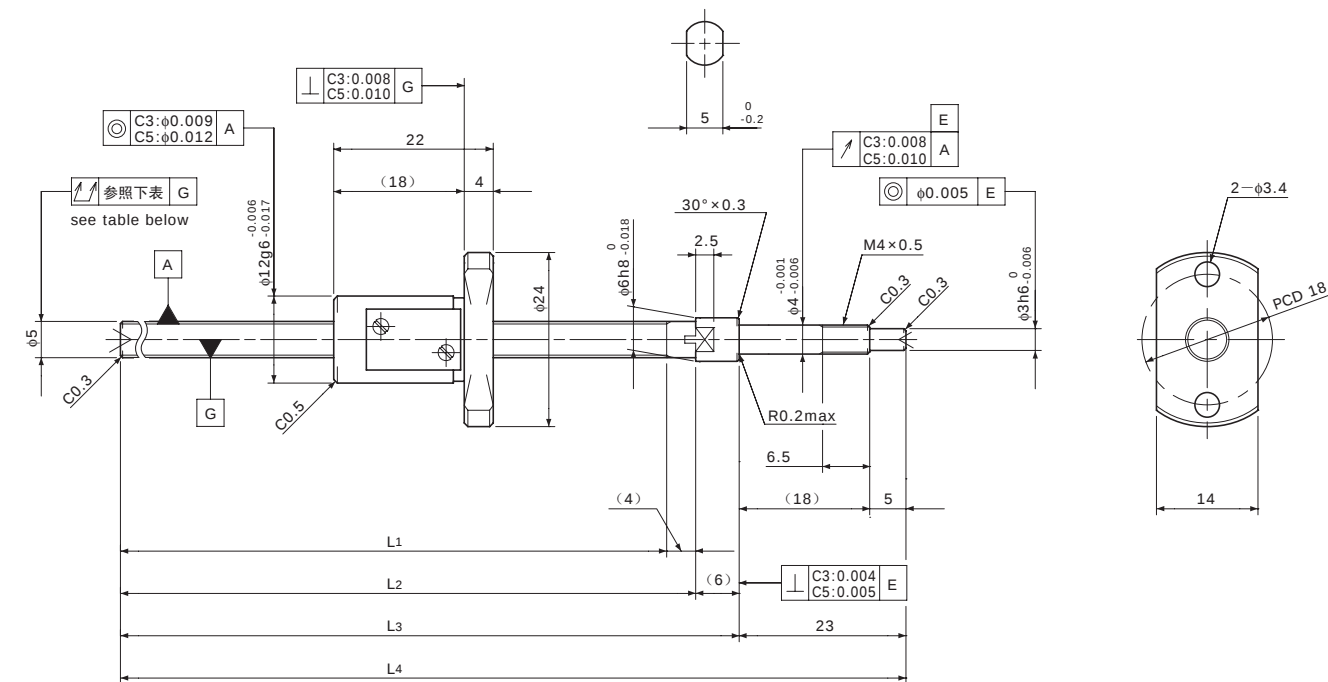
Note)Please refer to p-A204 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG0504

Shaft dia.(轴径) $\phi 5$ Lead(导程) 4mm

C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	$\phi 0.8$
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	$\phi 4.3$
Number of circuit 循环数	2.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	B型
C型	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧 : MSU-4CS/4GS, SUP03-S Fixed-side 固定侧 : MSU-4C/4G, EK4

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e_p	Variation 波动 V_u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG0504-062R095C3	40	C3	62	66	72	95	± 0.008	0.008	0.025	0 Spacer Ball 间隔钢珠 (1:1)	~ 0.005	300	360
SG0504-112R145C3	90	C3	112	116	122	145	± 0.010	0.008	0.035			470	720
SG0504-062R095C5	40	C5	62	66	72	95	± 0.018	0.018	0.035	~ 0.005	—	470	720
SG0504-112R145C5	90	C5	112	116	122	145	± 0.020	0.018	0.050			470	720

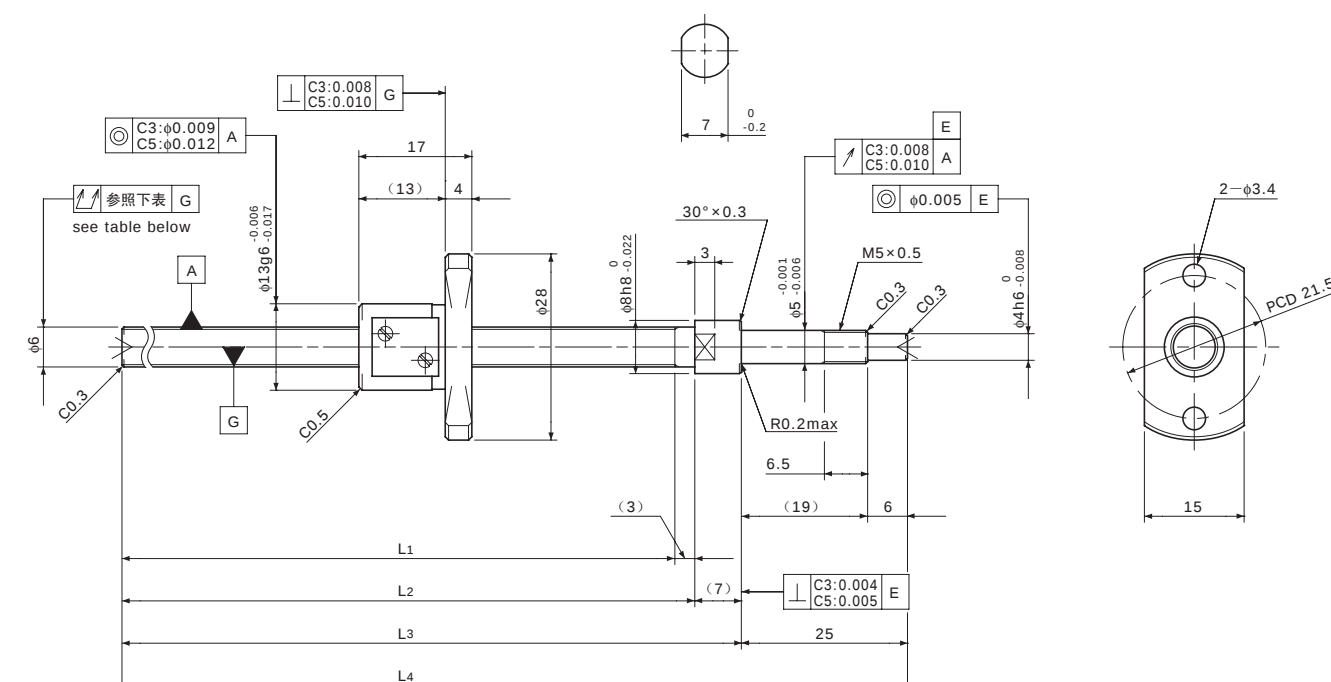
Note) Please refer to p-A204 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG0601

Shaft dia.(轴径) $\phi 6$ Lead(导程) 1mm

C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	$\phi 0.8$
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	$\phi 5.3$
Number of circuit 循环数	3.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	B型
C型	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧 : MSU-5CS/5GS, SUP04-S Fixed-side 固定侧 : MSU-5C/5G, EK5

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e_p	Variation 波动 V_u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG0601-085R120C3	65	C3	85	88	95	120	± 0.008	0.008	0.025	0 Spacer Ball 间隔钢珠 (1:1)	~ 0.006	430	610
SG0601-110R145C3	90	C3	110	113	120	145	± 0.010	0.008	0.035			680	1200
SG0601-135R170C3	115	C3	135	138	145	170	± 0.010	0.008	0.035	~ 0.005	—	680	1200
SG0601-085R120C5	65	C5	85	88	95	120	± 0.018	0.018	0.035			680	1200
SG0601-110R145C5	90	C5	110	113	120	145	± 0.020	0.018	0.050	~ 0.005	—	680	1200
SG0601-135R170C5	115	C5	135	138	145	170	± 0.020	0.018	0.050			680	1200

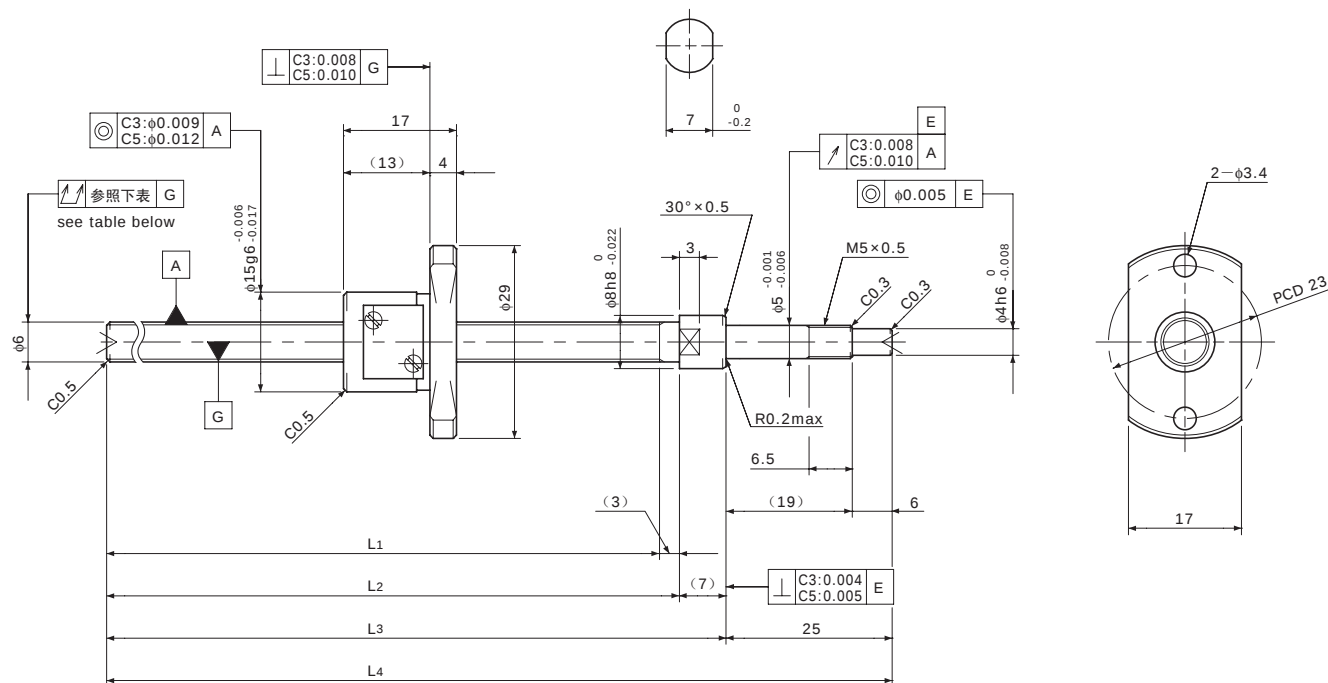
Note) Please refer to p-A204 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG0602

Shaft dia.(轴径) $\phi 6$ Lead(导程) 2mm

C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	$\phi 1.0$
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	$\phi 5.1$
Number of circuit 循环数	2.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	B型
C型	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧 : MSU-5CS/5GS, SUP04-S Fixed-side 固定侧 : MSU-5C/5G, EK5

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e_p	Variation 波动 V_u				Dynamic 额定动负载 C_a	Static 额定静负载 C_oa
SG0602-085R120C3	65	C3	85	88	95	120	± 0.008	0.008	0.025	0 Spacer Ball 间隔钢珠 (1:1)	0.003~0.007	470	590
SG0602-135R170C3	115	C3	135	138	145	170	± 0.010	0.008	0.035				
SG0602-085R120C5	65	C5	85	88	95	120	± 0.018	0.018	0.035	~0.005	—	750	1200
SG0602-135R170C5	115	C5	135	138	145	170	± 0.020	0.018	0.050				

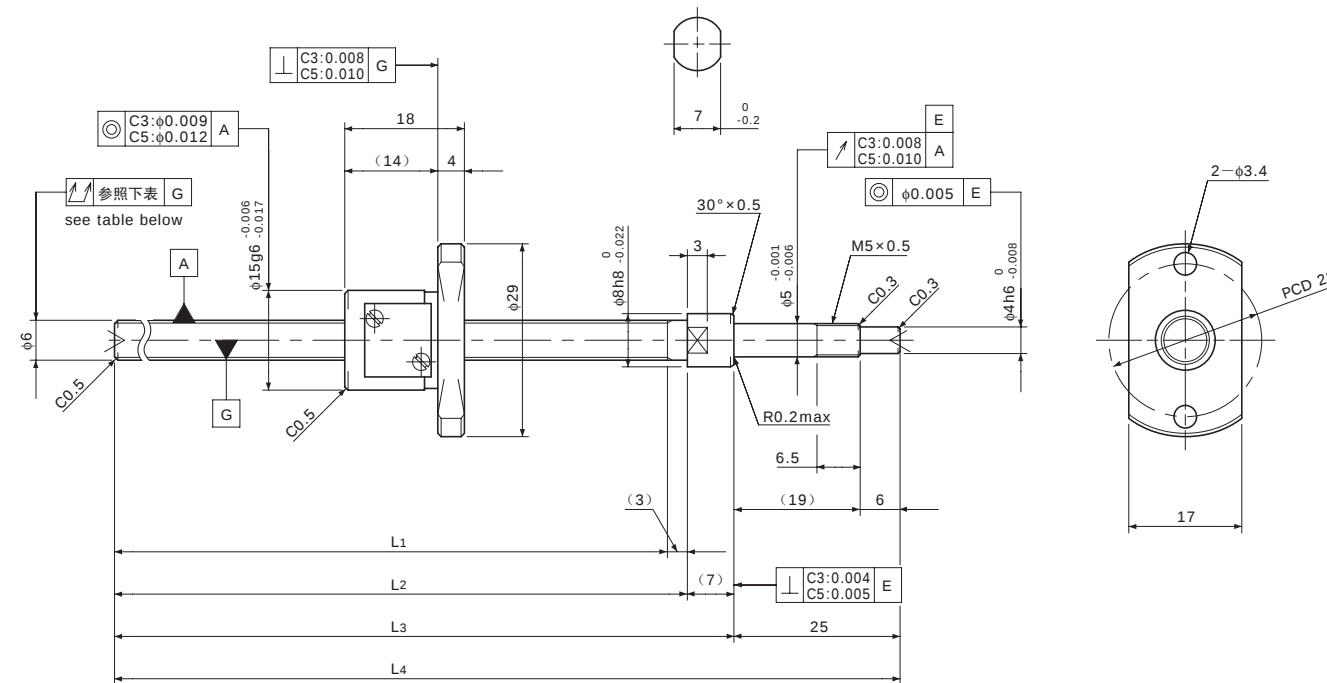
Note) Please refer to p-A204 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG0602.5

Shaft dia.(轴径) $\phi 6$ Lead(导程) 2.5mm

C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	$\phi 1.0$
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	$\phi 5.1$
Number of circuit 循环数	2.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	B型
C型	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧 : MSU-5CS/5GS, SUP04-S Fixed-side 固定侧 : MSU-5C/5G, EK5

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e_p	Variation 波动 V_u				Dynamic 额定动负载 C_a	Static 额定静负载 C_oa
SG0602.5-085R120C3	65	C3	85	88	95	120	± 0.008	0.008	0.025	0 Spacer Ball 间隔钢珠 (1:1)	0.003~0.007	470	590
SG0602.5-135R170C3	115	C3	135	138	145	170	± 0.010	0.008	0.035				
SG0602.5-085R120C5	65	C5	85	88	95	120	± 0.018	0.018	0.035	~0.005	—	750	1200
SG0602.5-135R170C5	115	C5	135	138	145	170	± 0.020	0.018	0.050				

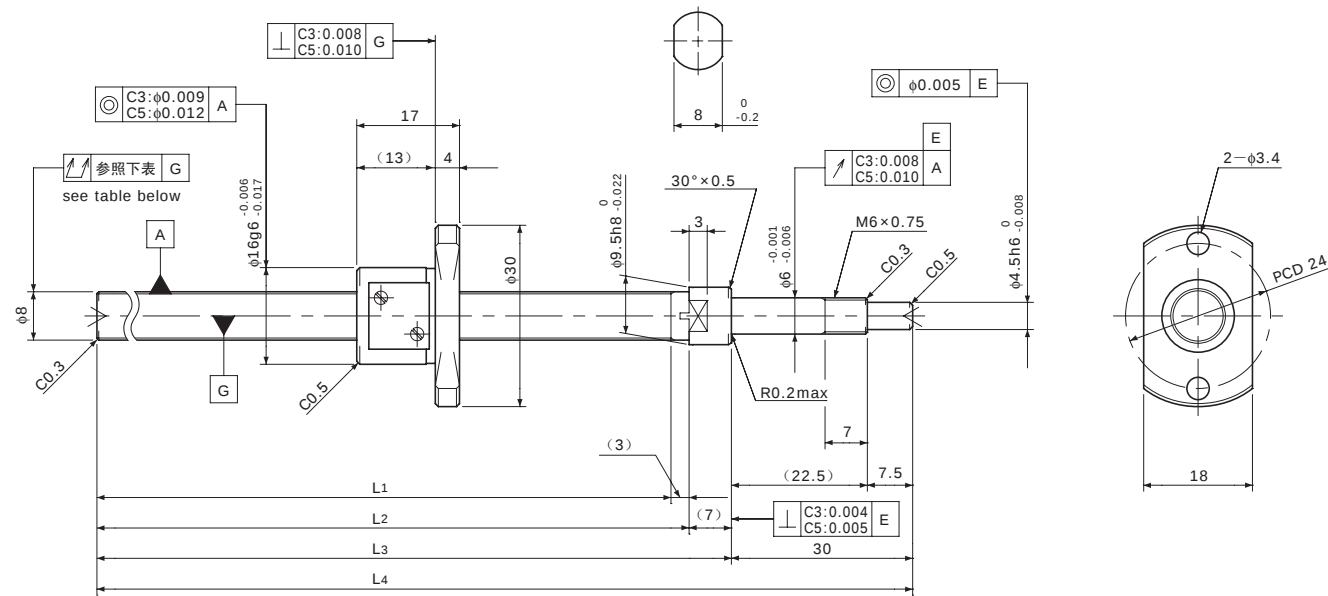
Note) Please refer to p-A204 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG0801

Shaft dia.(轴径)φ8 Lead(导程)1mm

C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ0.8
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ7.3
Number of circuit 循环数	3.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	B型
C型	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧 : MSU-6CS/6GS, EF6 Fixed-side 固定侧 : MSU-6C/6G, EK6

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e _p	Variation 波动 V _u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG0801-100R140C3	80	C3	100	103	110	140	±0.008	0.008	0.035	0 Spacer Ball 间隔钢珠 (1:1)	0.002~0.008	490	820
SG0801-130R170C3	110	C3	130	133	140	170	±0.010	0.008	0.035				
SG0801-160R200C3	140	C3	160	163	170	200	±0.010	0.008	0.035				
SG0801-210R250C3	190	C3	210	213	220	250	±0.012	0.008	0.050				
SG0801-100R140C5	80	C5	100	103	110	140	±0.018	0.018	0.050	~0.005	—	780	1650
SG0801-130R170C5	110	C5	130	133	140	170	±0.020	0.018	0.050				
SG0801-160R200C5	140	C5	160	163	170	200	±0.020	0.018	0.050				
SG0801-210R250C5	190	C5	210	213	220	250	±0.023	0.018	0.065				

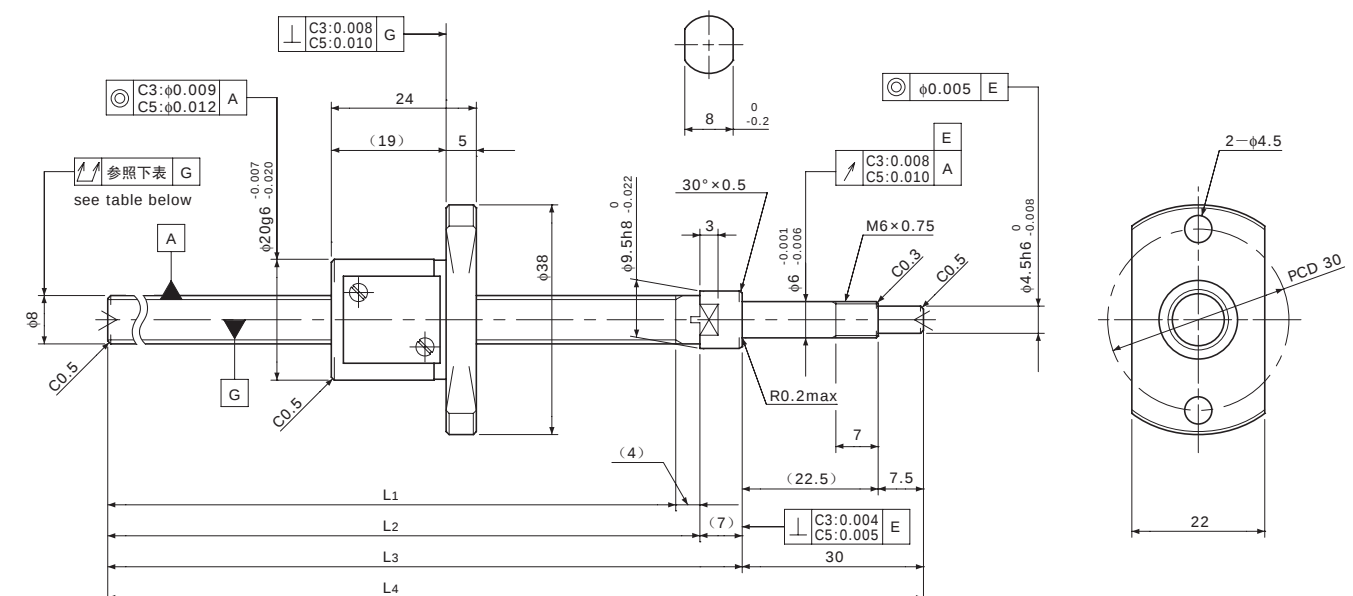
Note) Please refer to p-A204 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG0802

Shaft dia.(轴径)φ8 Lead(导程)2mm

C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ1.5875
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ6.6
Number of circuit 循环数	3.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	B型
C型	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧 : MSU-6CS/6GS, EF6 Fixed-side 固定侧 : MSU-6C/6G, EK6

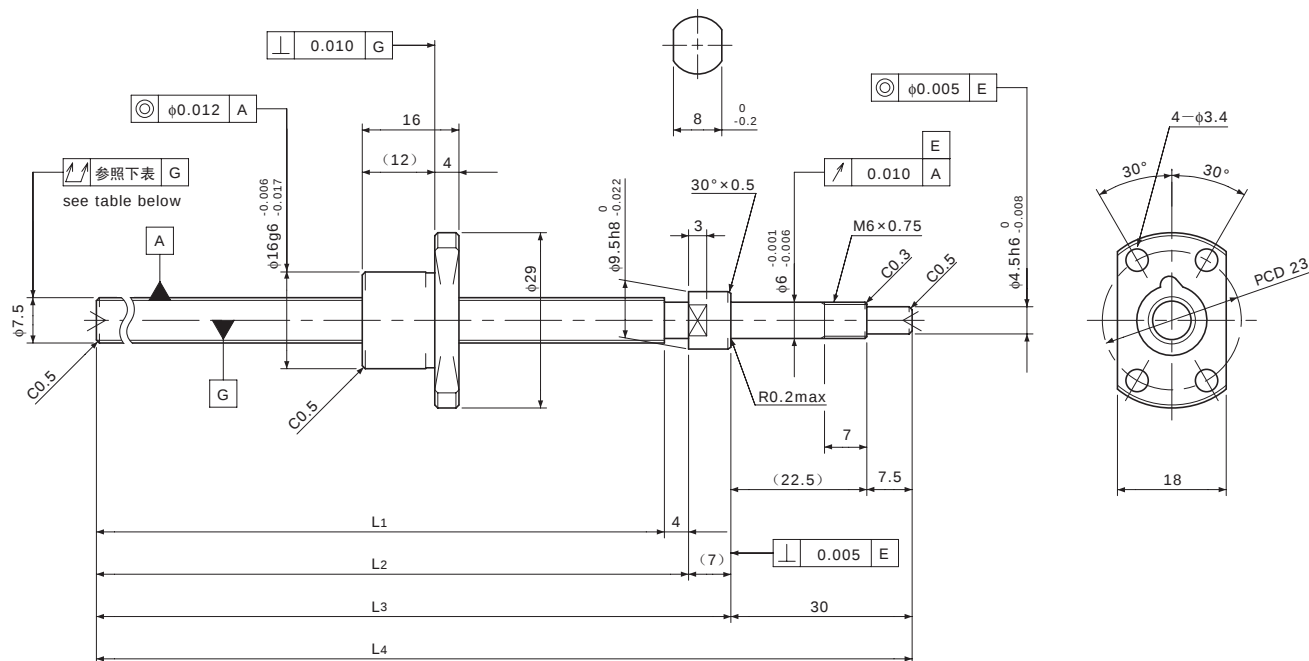
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e _p	Variation 波动 V _u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG0802-099R140C3	75	C3	99	103	110	140	±0.008	0.008	0.035	0 Spacer Ball 间隔钢珠 (1:1)	0.004~0.020	1550	2100
SG0802-129R170C3	105	C3	129	133	140	170	±0.010	0.008	0.035				
SG0802-159R200C3	135	C3	159	163	170	200	±0.010	0.008	0.035				
SG0802-209R250C3	185	C3	209	213	220	250	±0.012	0.008	0.050				
SG0802-099R140C5	75	C5	99	103	110	140	±0.018	0.018	0.050	~0.005	—	2400	4100
SG0802-129R170C5	105	C5	129	133	140	170	±0.020	0.018	0.050				
SG0802-159R200C5	135	C5	159	163	170	200	±0.020	0.018	0.050				
SG0802-209R250C5	185	C5	209	213	220	250	±0.023	0.018	0.065				

Note) Please refer to p-A204 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG0802.5 | Shaft dia.(轴径)φ8 Lead(导程)2.5mm | C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ1.5875
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ6.3
Number of circuit 循环数	2.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	B型
C型	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧 : MSU-6CS/6GS, EF6 Fixed-side 固定侧 : MSU-6C/6G, EK6

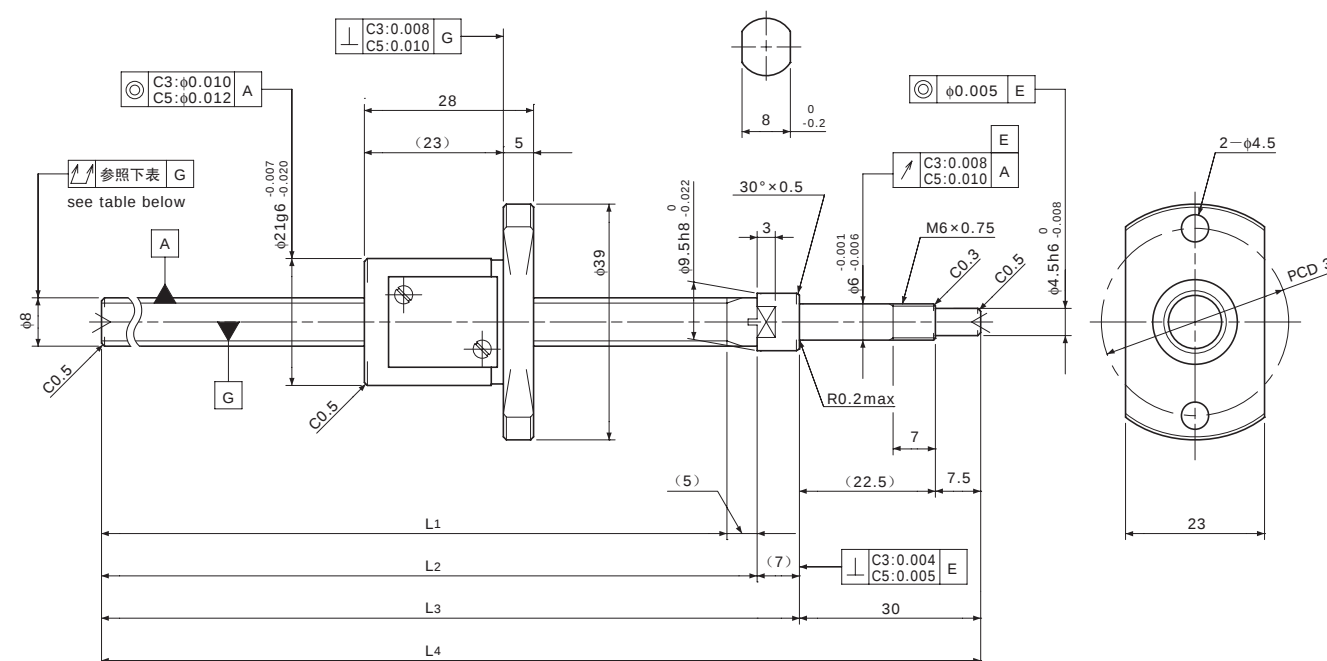
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e _p	Variation 波动 V _u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG0802.5-129R170C5	110	C5	129	133	140	170	±0.020	0.018	0.050	~0.005	—	1850	3000
SG0802.5-209R250C5	190	C5	209	213	220	250	±0.023	0.018	0.065				

Note)Please refer to p-A204 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG0804 | Shaft dia.(轴径)φ8 Lead(导程)4mm | C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ2.0
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ6.2
Number of circuit 循环数	2.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	B型
C型	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧 : MSU-6CS/6GS, EF6 Fixed-side 固定侧 : MSU-6C/6G, EK6

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e _p	Variation 波动 V _u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG0804-098R140C3	70	C3	98	103	110	140	±0.008	0.008	0.035	0 Spacer Ball 间隔钢珠 (1:1)	~0.015	1650	2100
SG0804-208R250C3	180	C3	208	213	220	250	±0.012	0.008	0.050				
SG0804-098R140C5	70	C5	98	103	110	140	±0.018	0.018	0.050	~0.005	—	2600	4200
SG0804-208R250C5	180	C5	208	213	220	250	±0.023	0.018	0.065				

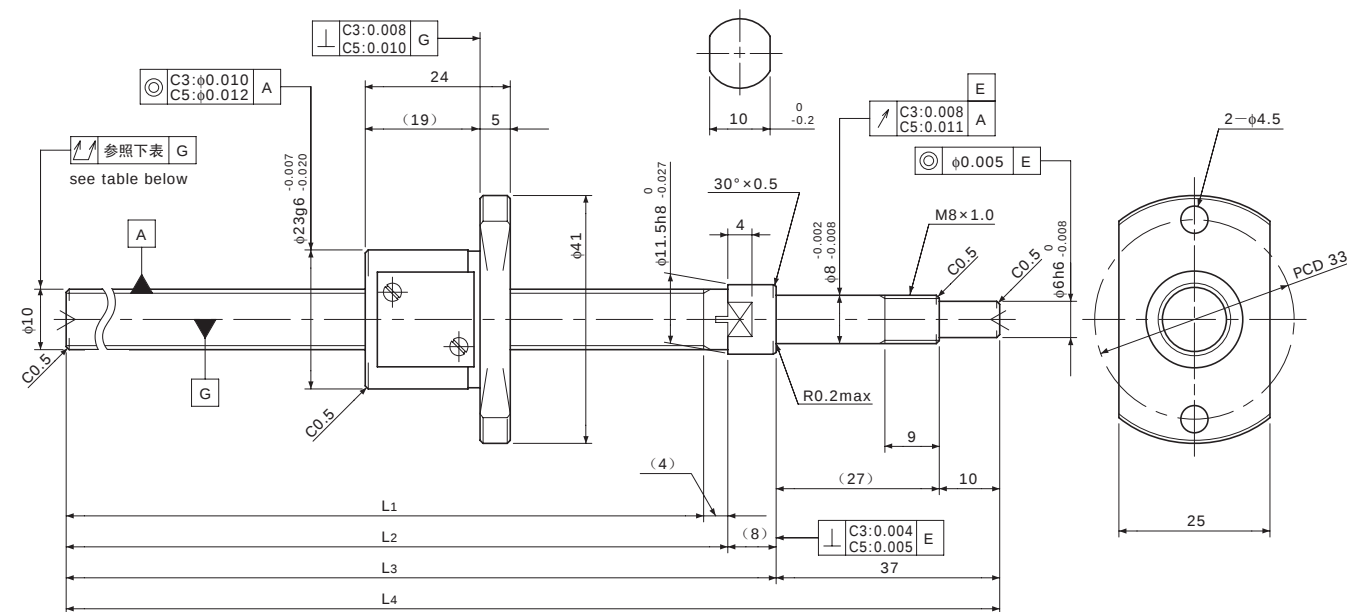
Note)Please refer to p-A204 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG1002

Shaft dia.(轴径) $\phi 10$ Lead(导程)2mm

C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	$\phi 1.5875$
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	$\phi 8.6$
Number of circuit 循环数	3.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	B型
C型	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧 : MSU-8CS/8GS, EF8 Fixed-side 固定侧 : MSU-8C/8G, EK8

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e_p	Variation 波动 V_u				Dynamic 额定动负载 C_a	Static 额定静负载 C_oa
SG1002-111R160C3	85	C3	111	115	123	160	± 0.010	0.008	0.035	0 Spacer Ball 间隔钢珠 (1:1)	0.006~0.030	1750	2700
SG1002-161R210C3	135	C3	161	165	173	210	± 0.010	0.008	0.040				
SG1002-211R260C3	185	C3	211	215	223	260	± 0.012	0.008	0.040				
SG1002-261R310C3	235	C3	261	265	273	310	± 0.012	0.008	0.040				
SG1002-111R160C5	85	C5	111	115	123	160	± 0.020	0.018	0.040	~0.005	—	2700	5300
SG1002-161R210C5	135	C5	161	165	173	210	± 0.020	0.018	0.055				
SG1002-211R260C5	185	C5	211	215	223	260	± 0.023	0.018	0.055				
SG1002-261R310C5	235	C5	261	265	273	310	± 0.023	0.018	0.055				

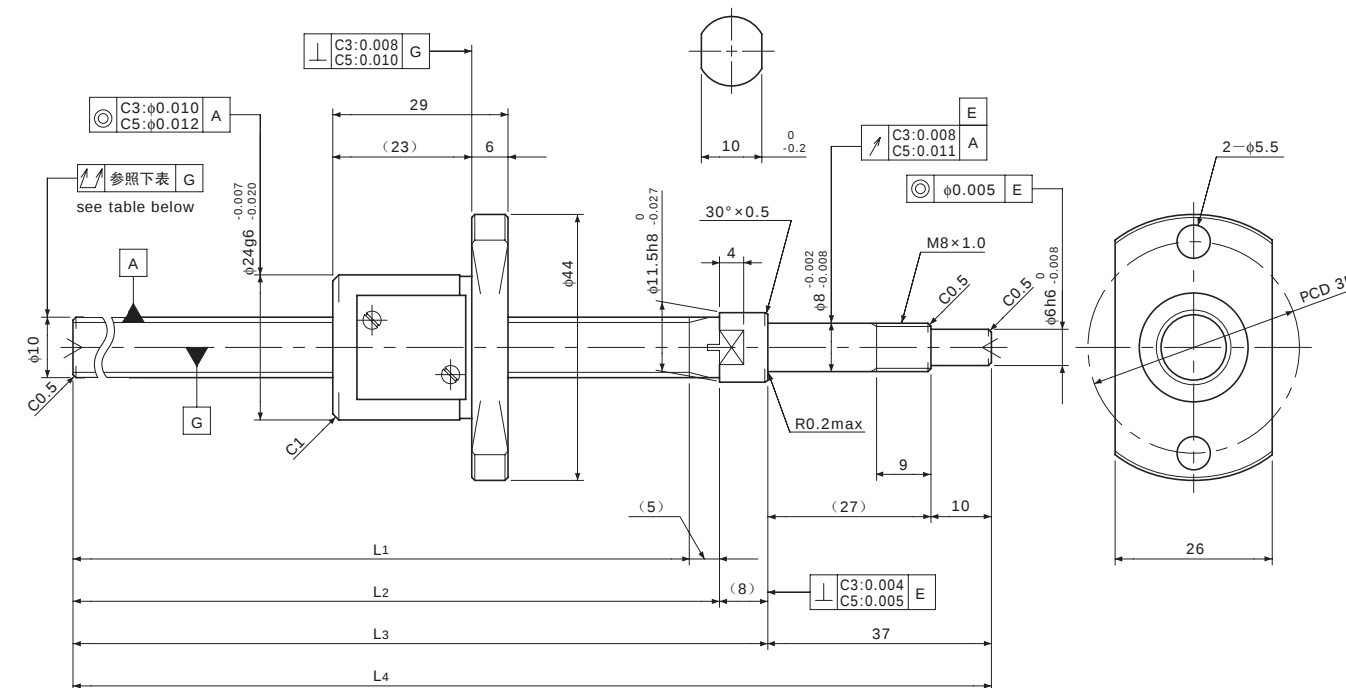
Note) Please refer to p-A204 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG1004

Shaft dia.(轴径) $\phi 10$ Lead(导程)4mm

C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	$\phi 2.0$
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	$\phi 8.2$
Number of circuit 循环数	2.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	B型
C型	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧 : MSU-8CS/8GS, EF8 Fixed-side 固定侧 : MSU-8C/8G, EK8

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e_p	Variation 波动 V_u				Dynamic 额定动负载 C_a	Static 额定静负载 C_oa
SG1004-110R160C3	80	C3	110	115	123	160	± 0.010	0.008	0.035	0 Spacer Ball 间隔钢珠 (1:1)	0.005~0.040	1800	2600
SG1004-260R310C3	230	C3	260	265	273	310	± 0.012	0.008	0.040				
SG1004-110R160C5	80	C5	110	115	123	160	± 0.020	0.018	0.040	~0.005	—	3000	5200
SG1004-260R310C5	230	C5	260	265	273	310	± 0.023	0.018	0.055				

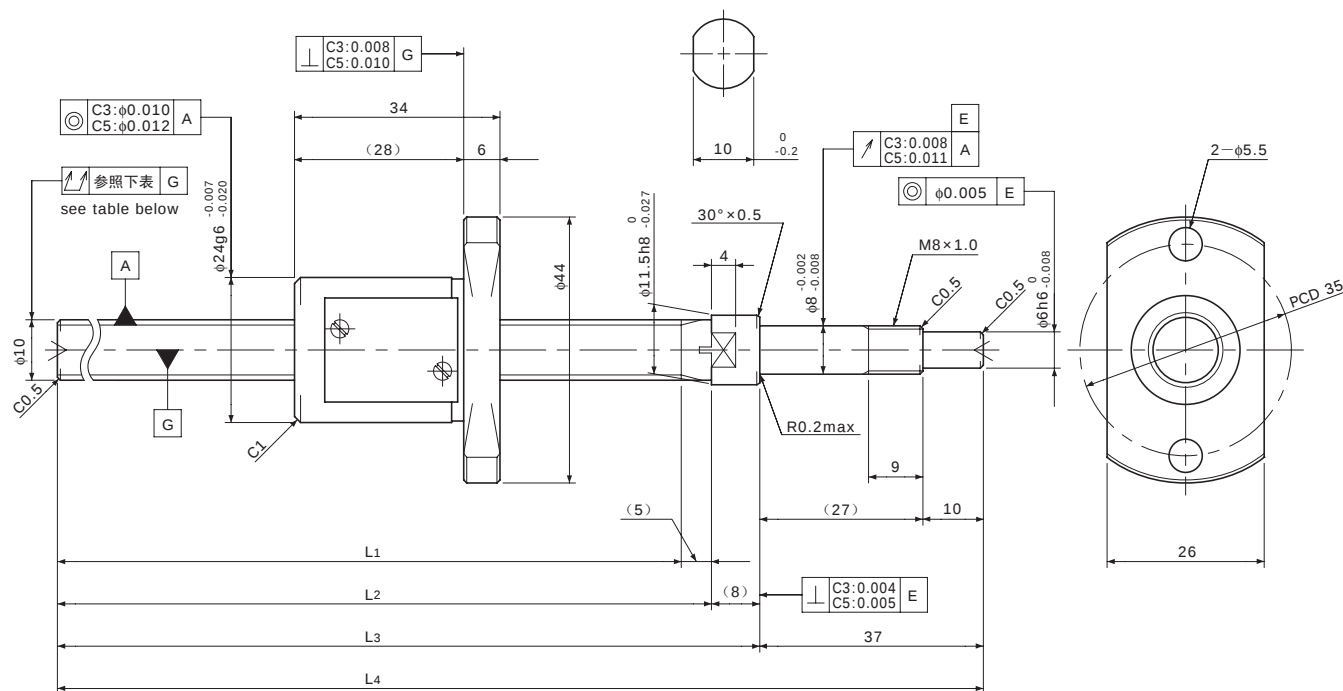
Note) Please refer to p-A204 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG1005

Shaft dia.(轴径)φ10 Lead(导程)5mm

C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ2.0
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ8.2
Number of circuit 循环数	2.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	B型
C型	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧 : MSU-8CS/8GS, EF8 Fixed-side 固定侧 : MSU-8C/8G, EK8

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e _p	Variation 波动 V _u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG1005-110R160C3	75	C3	110	115	123	160	±0.010	0.008	0.035	0 Spacer Ball 间隔钢珠 (1:1)	0.005~0.040	1800	2600
SG1005-260R310C3	225	C3	260	265	273	310	±0.012	0.008	0.040				
SG1005-110R160C5	75	C5	110	115	123	160	±0.020	0.018	0.040	~0.005	—	3000	5200
SG1005-260R310C5	225	C5	260	265	273	310	±0.023	0.018	0.055				

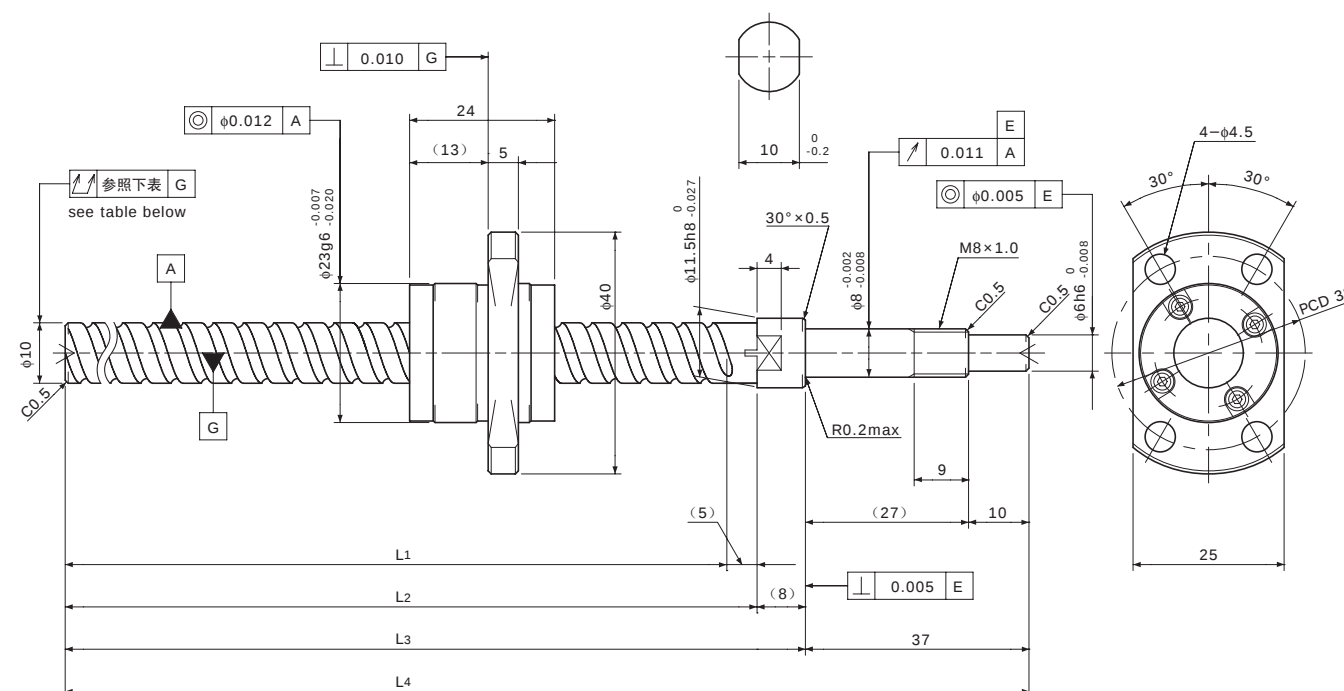
Note)Please refer to p-A204 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG1010

Shaft dia.(轴径)φ10 Lead(导程)10mm

C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ2.0
Number of thread 螺纹条数	2
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ8.4
Number of circuit 循环数	1.6×2
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	B型
C型	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧 : MSU-8CS/8GS, EF8 Fixed-side 固定侧 : MSU-8C/8G, EK8

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e _p	Variation 波动 V _u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG1010-110R160C5	85	C5	110	115	123	160	±0.020	0.018	0.040	~0.005	—	3300	5900
SG1010-260R310C5	235	C5	260	265	273	310	±0.023	0.018	0.055				

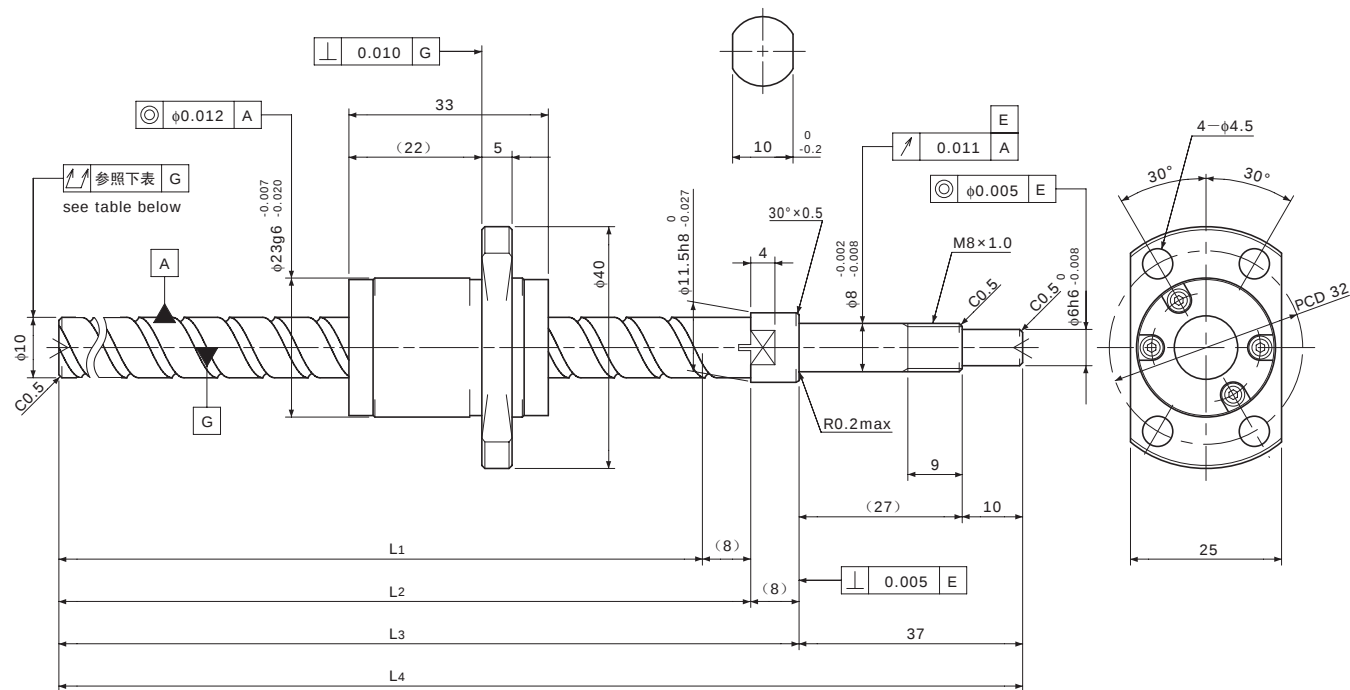
Note)Please refer to p-A204 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG1015

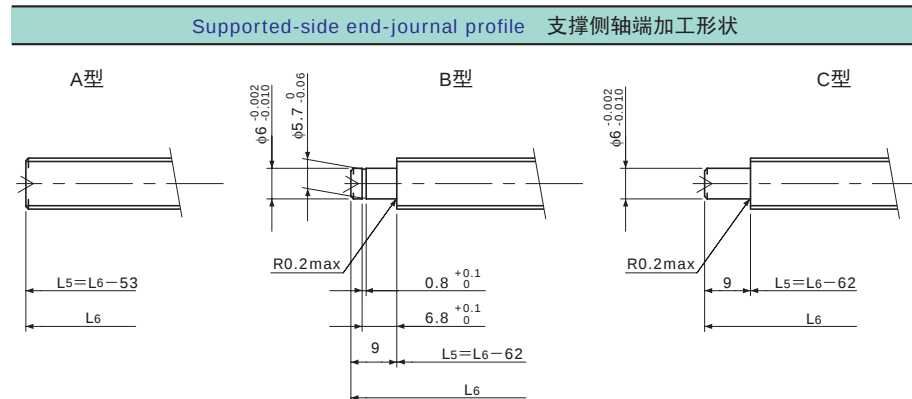
Shaft dia.(轴径)φ10 Lead(导程)15mm

C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ2.0
Number of thread 螺纹条数	2
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ8.4
Number of circuit 循环数	1.6×2
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油



L5: Thread length after end-journal machining. 追加加工后的螺纹部长度
L6: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件	
Supported-side 支撑侧	MSU-8CS/8GS, EF8
Fixed-side 固定侧	MSU-8C/8G, EK8

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e_p	Variation 波动 V_u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG1015-107R160C5	70	C5	107	115	123	160	±0.020	0.018	0.040	~0.005	—	3300	6400
SG1015-257R310C5	220	C5	257	265	273	310	±0.023	0.018	0.055				

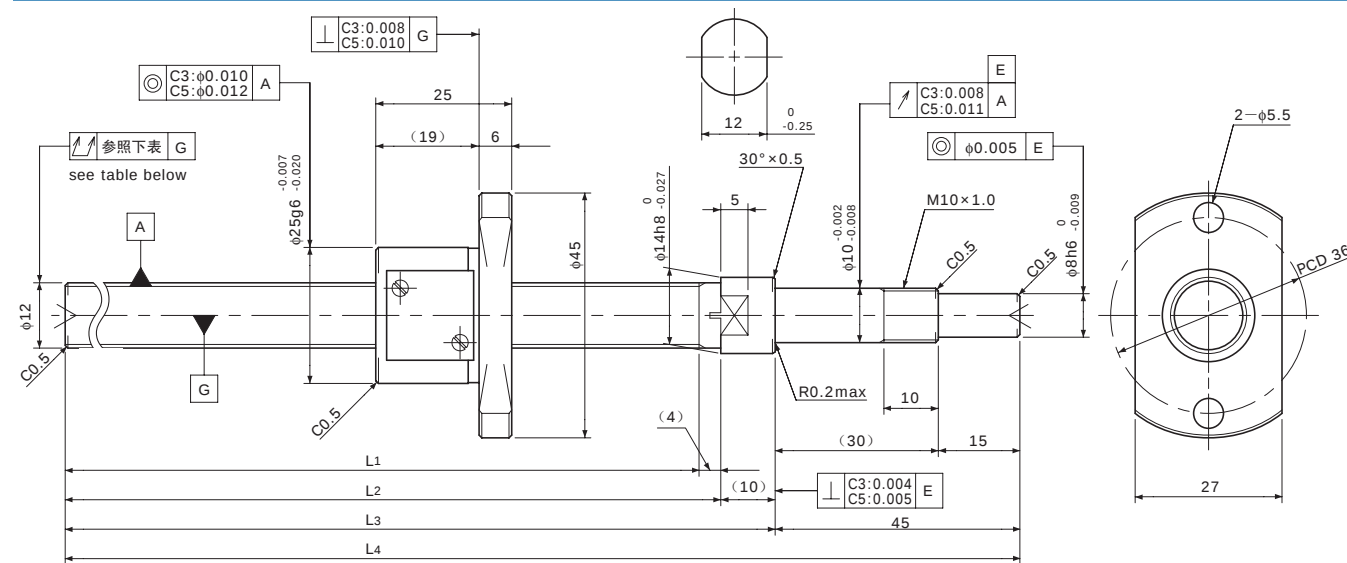
Note)Please refer to p-A204 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG1202

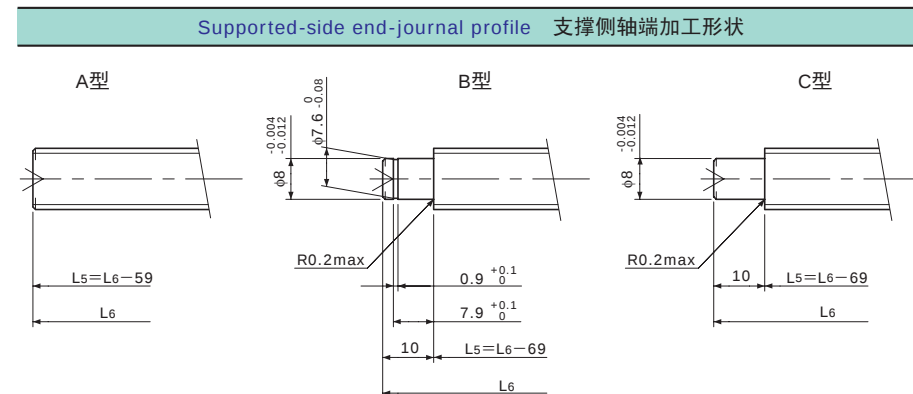
Shaft dia.(轴径)φ12 Lead(导程)2mm

C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ1.5875
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ10.6
Number of circuit 循环数	3.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油



L5: Thread length after end-journal machining. 追加加工后的螺纹部长度
L6: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件	
Supported-side 支撑侧	EF10
Fixed-side 固定侧	EK10

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e_p	Variation 波动 V_u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG1202-141R200C3	115	C3	141	145	155	200	±0.010	0.008	0.035	0 Spacer Ball 间隔钢珠 (1:1)	0.008~0.040	1900	3200
SG1202-191R250C3	165	C3	191	195	205	250	±0.010	0.008	0.040				
SG1202-241R300C3	215	C3	241	245	255	300	±0.012	0.008	0.040				
SG1202-291R350C3	265	C3	291	295	305	350	±0.012	0.008	0.050				
SG1202-341R400C3	315	C3	341	345	355	400	±0.013	0.010	0.050	~0.005	—	3000	6400
SG1202-141R200C5	115	C5	141	145	155	200	±0.020	0.018	0.040				
SG1202-191R250C5	165	C5	191	195	205	250	±0.020	0.018	0.055				
SG1202-241R300C5	215	C5	241	245	255	300	±0.023	0.018	0.055				
SG1202-291R350C5	265	C5	291	295	305	350	±0.023	0.018	0.065				
SG1202-341R400C5	315	C5	341	345	355	400	±0.025	0.020	0.065				

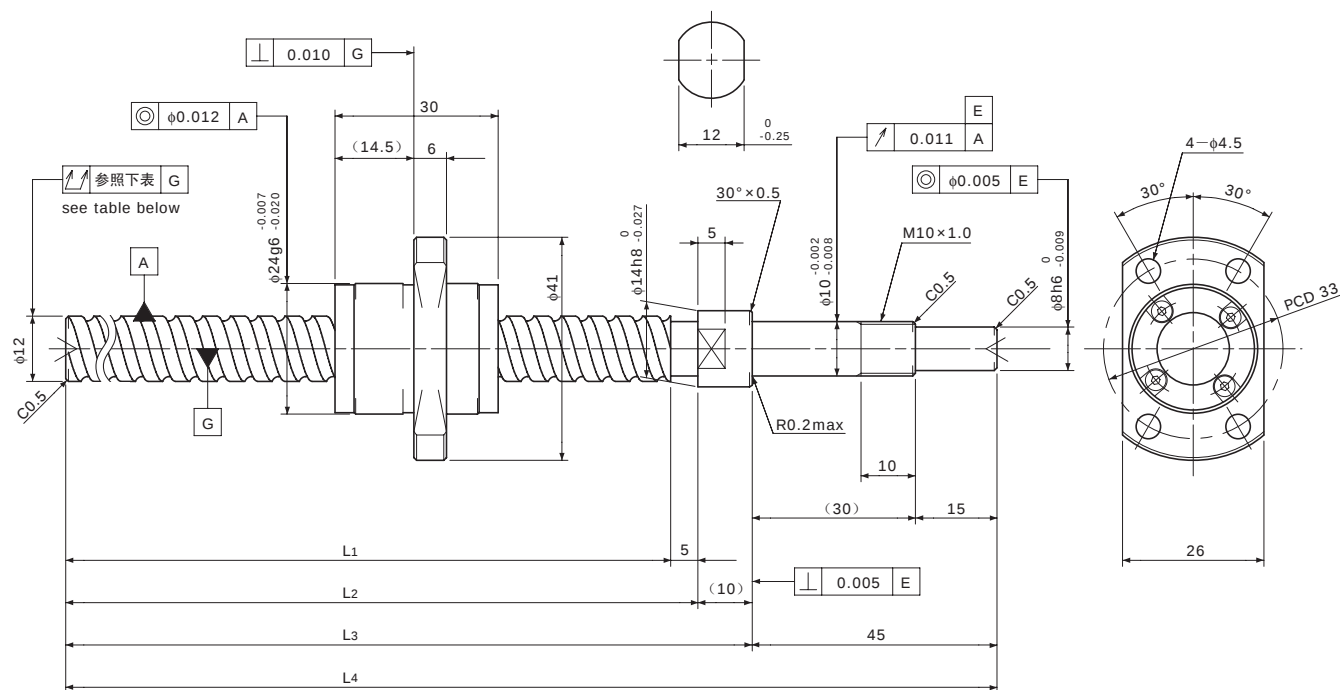
Note)Please refer to p-A204 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG1210

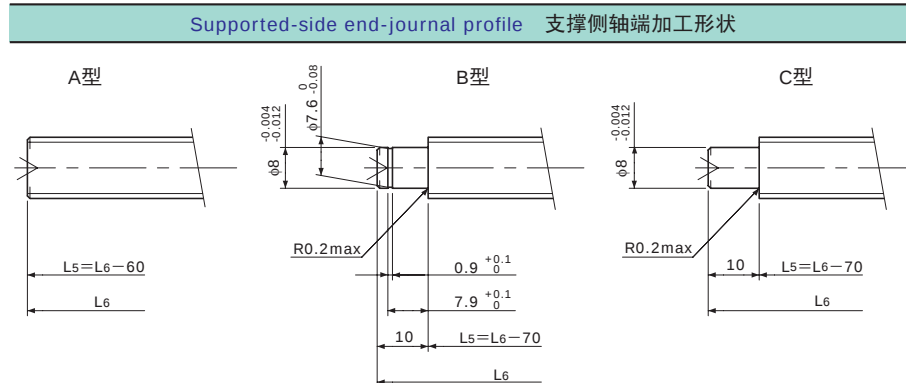
Shaft dia.(轴径)φ12 Lead(导程)10mm

C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ2.381
Number of thread 螺纹条数	2
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ10.2
Number of circuit 循环数	1.7×2
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油



L5: Thread length after end-journal machining. 追加加工后的螺纹部长度
L6: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件	
Supported-side 支撑侧	EF10
Fixed-side 固定侧	EK10

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	L ₄	Travel deviation 代表移动量误差 e _p	Variation 波动 V _u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG1210-240R300C5	210	C5	240	245	255	300	±0.023	0.018	0.055	~0.005	—	5100	9800
SG1210-340R400C5	310	C5	340	345	355	400	±0.025	0.020	0.065				

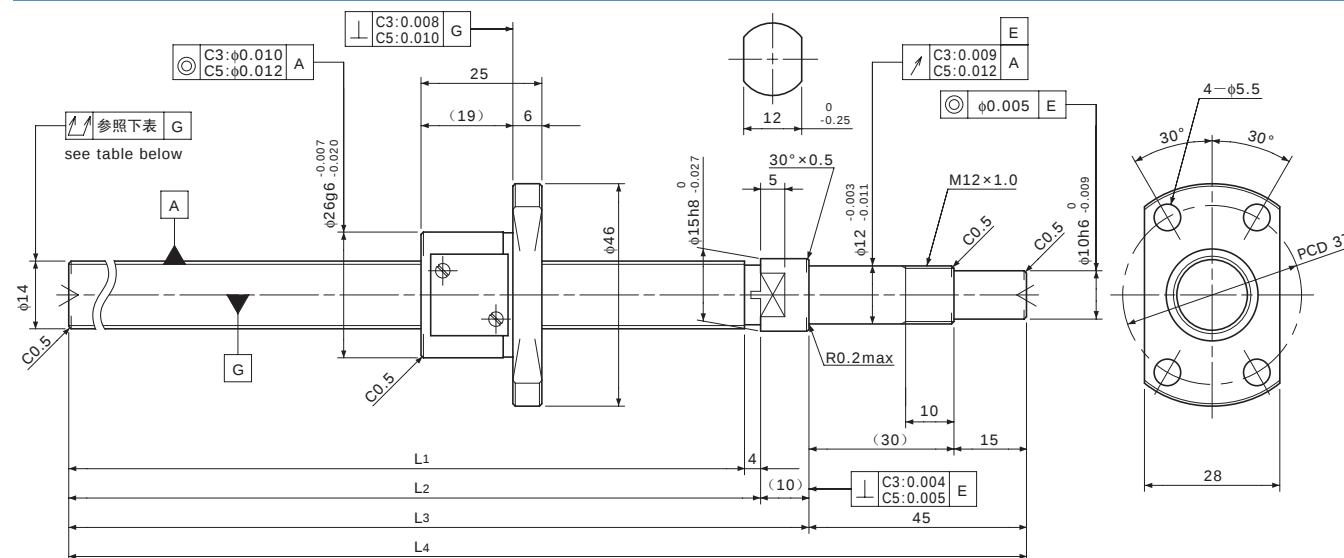
Note)Please refer to p-A204 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG1402

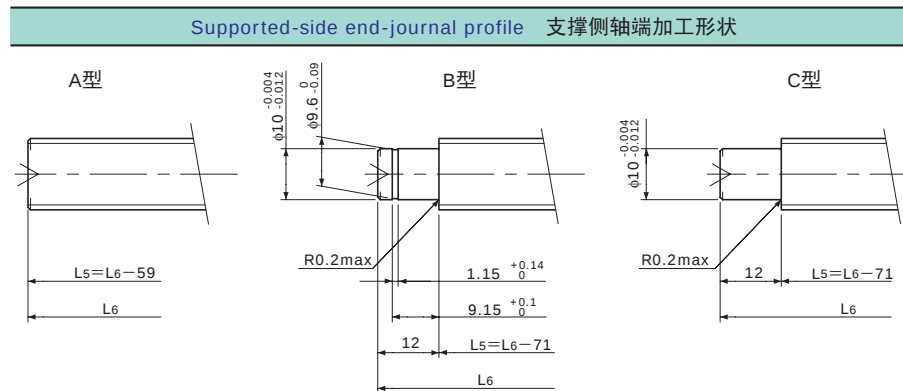
Shaft dia.(轴径)φ14 Lead(导程)2mm

C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ1.5875
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ12.6
Number of circuit 循环数	3.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油



L5: Thread length after end-journal machining. 追加加工后的螺纹部长度
L6: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件	
Supported-side 支撑侧	EF12
Fixed-side 固定侧	EK12

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	L ₄	Travel deviation 代表移动量误差 e _p	Variation 波动 V _u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG1402-141R200C3	115	C3	141	145	155	200	±0.010	0.008	0.025	0 Spacer Ball 间隔钢珠 (1:1)	0.010~ 0.050	2000	3800
SG1402-191R250C3	165	C3	191	195	205	250	±0.010	0.008	0.030				
SG1402-241R300C3	215	C3	241	245	255	300	±0.012	0.008	0.030				
SG1402-291R350C3	265	C3	291	295	305	350	±0.012	0.008	0.040				
SG1402-391R450C3	365	C3	391	395	405	450	±0.013	0.010	0.050	~0.005	—	3200	7500
SG1402-141R200C5	115	C5	141	145	155	200	±0.020	0.018	0.040				
SG1402-191R250C5	165	C5	191	195	205	250	±0.020	0.018	0.045				
SG1402-241R300C5	215	C5	241	245	255	300	±0.023	0.018	0.045				
SG1402-291R350C5	265	C5	291	295	305	350	±0.023	0.018	0.055				
SG1402-391R450C5	365	C5	391	395	405	450	±0.025	0.020	0.060				

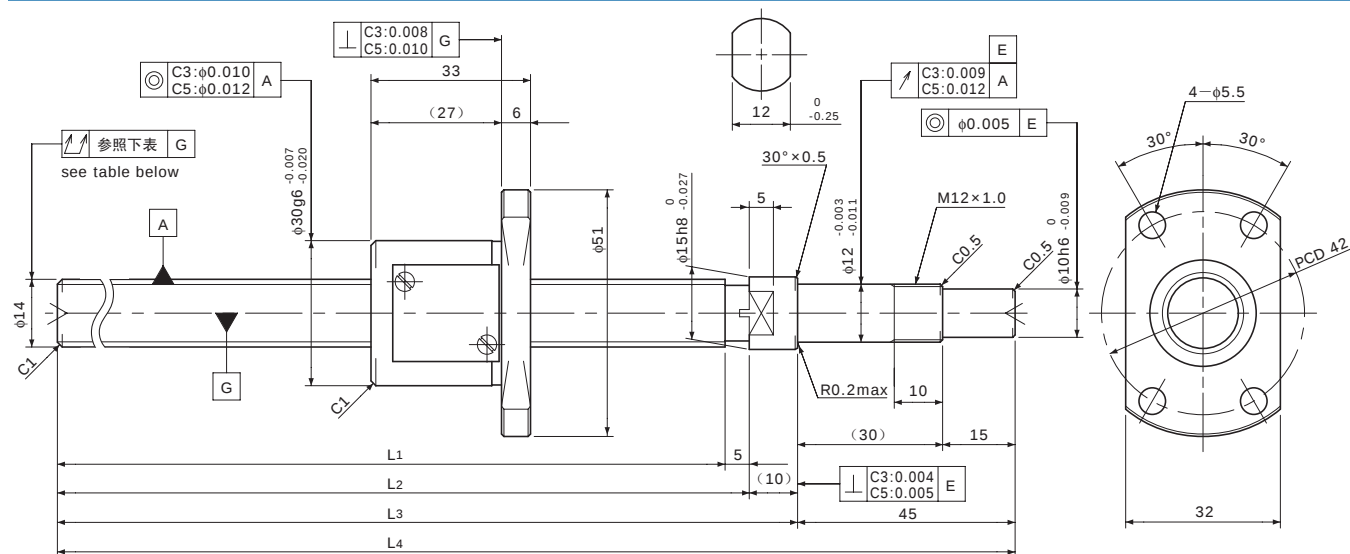
Note)Please refer to p-A204 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG1404

Shaft dia.(轴径)φ14 Lead(导程)4mm

C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ2.381
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ11.8
Number of circuit 循环数	3.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	B型
C型	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件 Supported-side 支撑侧 : EF12 Fixed-side 固定侧 : EK12	

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e _p	Variation 波动 V _u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG1404-190R250C3	155	C3	190	195	205	250	±0.010	0.008	0.030	0 Spacer Ball 间隔钢珠 (1:1)	0.020~ 0.070	3600	5800
SG1404-240R300C3	205	C3	240	245	255	300	±0.012	0.008	0.030				
SG1404-290R350C3	255	C3	290	295	305	350	±0.012	0.008	0.040				
SG1404-390R450C3	355	C3	390	395	405	450	±0.013	0.010	0.050				
SG1404-490R550C3	455	C3	490	495	505	550	±0.015	0.010	0.055				
SG1404-190R250C5	155	C5	190	195	205	250	±0.020	0.018	0.045	~0.005	—	5700	11600
SG1404-240R300C5	205	C5	240	245	255	300	±0.023	0.018	0.045				
SG1404-290R350C5	255	C5	290	295	305	350	±0.023	0.018	0.055				
SG1404-390R450C5	355	C5	390	395	405	450	±0.025	0.020	0.060				
SG1404-490R550C5	455	C5	490	495	505	550	±0.027	0.020	0.075				

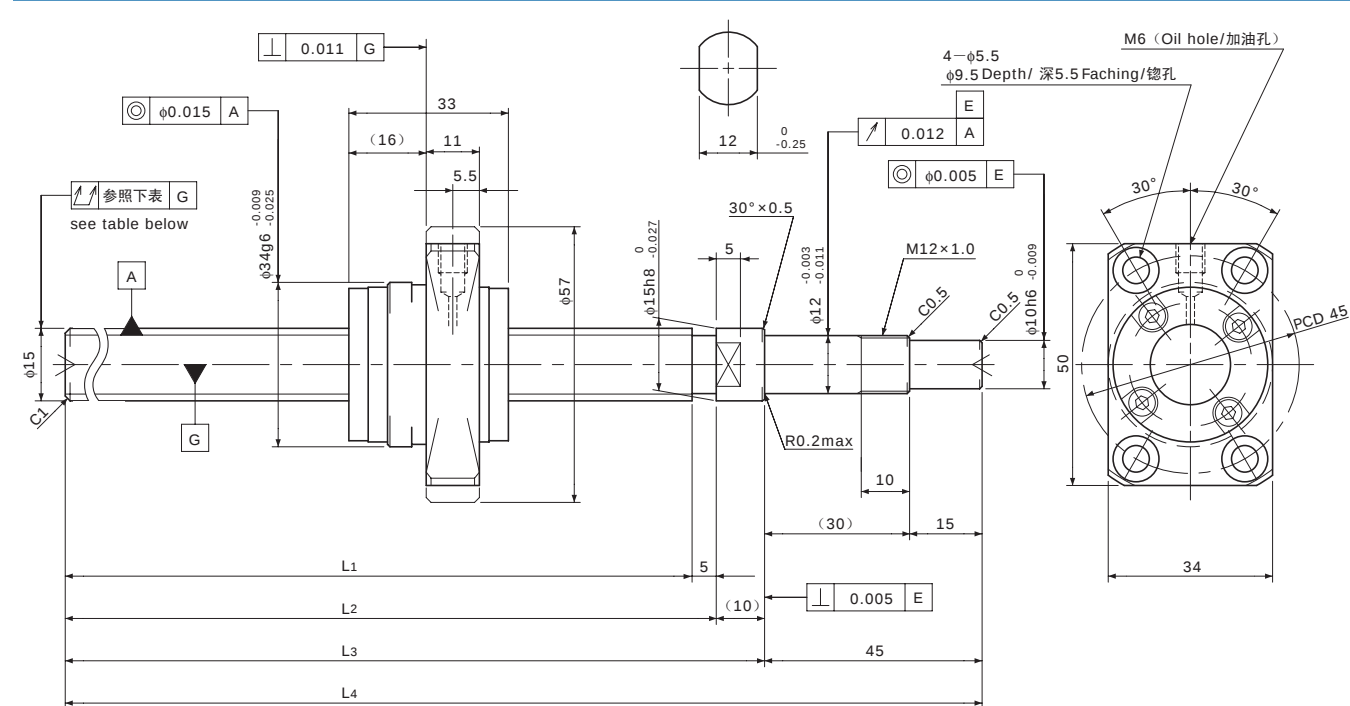
Note)Please refer to p-A204 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A204。

Standard products in stock SG series
标准库存品 SG系列

SG1505

Shaft dia.(轴径)φ15 Lead(导程)5mm

C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ3.175
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ12.2
Number of circuit 循环数	3.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Supported-side end-journal profile 支撑侧轴端加工形状	
A型	B型
C型	
L5: Thread length after end-journal machining. 追加加工后的螺纹部长度 L6: Total length after end-journal machining. 追加加工后的总长	
Support-unit Recommendation 推荐的支架组件 Supported-side 支撑侧 : EF12 Fixed-side 固定侧 : EK12	

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度				Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L1	L2	L3	L4	Travel deviation 代表移动量误差 e _p	Variation 波动 V _u				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SG1505-340R400C5	305	C5	340	345	355	400	±0.025	0.020	0.055	~0.005	—	8900	17000
SG1505-540R600C5	505	C5	540	545	555	600	±0.030	0.023	0.075				

Note)Please refer to p-A204 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A204。

SD系列 精密双向滚珠丝杠标准库存品

SD series Standardized Bi-directional Ball Screws

通过单轴即可进行左右开闭、定心、精密定位的经济型滚珠丝杠。
齐备有C3级、C5级研磨滚珠丝杠。

●丝杠轴公称外径与导程的组合

Combination of Shaft nominal dia. & Lead

Unit(单位): mm		
Lead 导程	1	2
Shaft dia. 公称外径		
4	A237	
6	A238	
8	A239	A240
10		A241
12		A242

注1)表中的数字表示产品刊载页码。
Note 1)The numbers in a table: showing a page in this catalogue.

●精度等级和轴向间隙
SD系列(精密双向滚珠丝杠标准库存品)的精度等级有JIS C3和JIS C5两种。
轴向间隙根据精度等级不同备有0mm(预压:C3)和0.005mm以下(C5)两种。

●材质和表面硬度
SD系列(精密双向滚珠丝杠标准库存品)的丝杠轴和螺母均采用SCM415(渗碳淬火),滚珠丝杠部分的表面硬度为HRC58~62。

●润滑
为防止生锈,未对轴端进行加工的SD系列(精密双向滚珠丝杠标准库存品)产品均涂抹有防锈油。由于防锈油不具备润滑性,因此在使用前请另行涂抹润滑剂。如无特殊指定,建议使用KSS原装润滑油脂(MSG No.2)。

●轴端形状
SD系列(精密双向滚珠丝杠标准库存品)的轴端形状未进行标准化。
委托KSS进行追加加工时,请附上指示轴端形状的图纸。

SD series are economical Ball Screws which moves bi-directionally with a shaft, and perform centering, precise positioning. There are Precision Ball Screws C3, C5 grade.

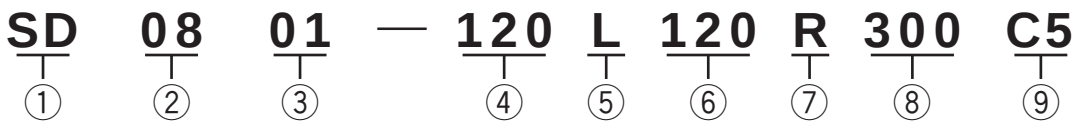
●Accuracy Grade & Axial play
Accuracy grades of SD series (Standardized Bi-directional Precision Ball Screws) are 2 kinds, JIS C3 and JIS C5. Axial play are 0(Preload : C3)and 0.005mm or less(C5) corresponding to accuracy grades in stock.

●Material & Surface hardness
Shafts and Nuts of SD series(Standardized Bi-directional Precision Ball Screws) adopts SCM415 (carburizing and quenching), surface hardness of Ball Screw part is HRC58-62.

●Lubrication
SD series(Standardized Bi-directional Precision Ball Screws) are applied with anti-rust oil for rust prevention when unfinished end journal. Since anti-rust oil is not lubricant, apply Grease or lubrication oil before using Ball Screws. If there is no specific instruction, KSS would recommend our original Grease (MSG No.2) as standard lubricant. Please feel free to contact us.

●End-journal profile
End-journal configuration of SD series (Standardized Bi-directional Precision Ball Screws) is not standardized. Please ask for KSS regarding additional machining with a drawing which shows end-journal profile.

●公称型号的构成
SD系列(精密双向滚珠丝杠标准库存品)的公称型号构成如下所示。



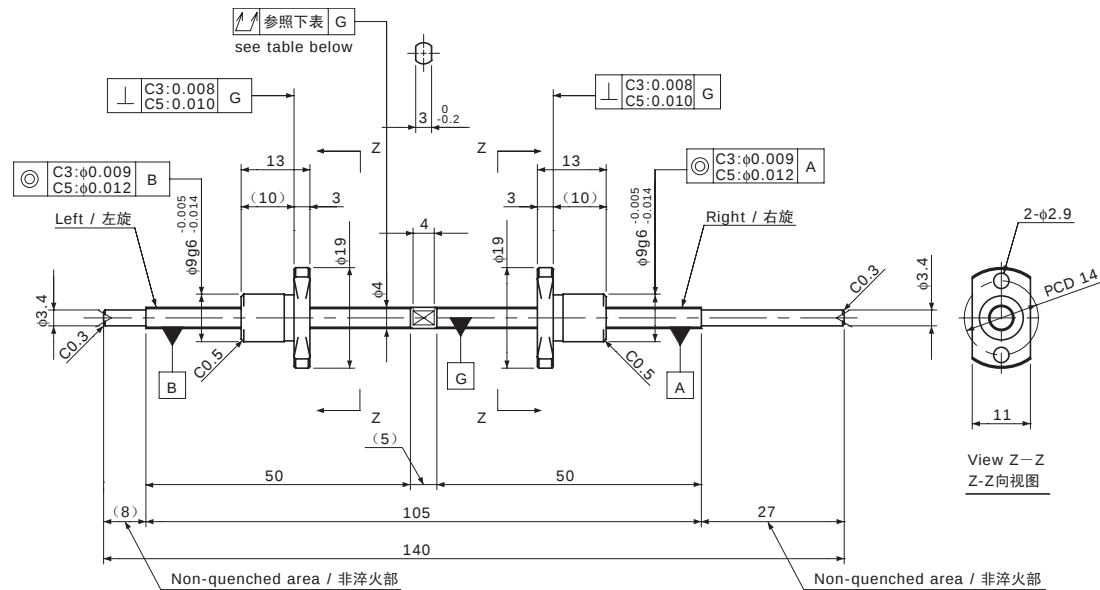
- ①双向滚珠丝杠的系列符号
- ②丝杠轴公称外径(mm)
- ③导程(mm)
- ④左旋螺纹部长度(mm)
- ⑤左旋符号
- ⑥右旋螺纹部长度(mm)
- ⑦右旋符号
- ⑧丝杠轴总长(mm)
- ⑨精度等级(C3或C5)

●Model number notation
Model number notation of SD series(Standardized Bi-directional Precision Ball Screws) is as follows.

- ①Bi-directional Ball Screws series No.
- ②Screw Shaft nominal diameter(mm)
- ③Lead(mm)
- ④Left-side thread length(mm)
- ⑤Left-hand
- ⑥Right-side thread length(mm)
- ⑦Right-hand
- ⑧Screw Shaft total length(mm)
- ⑨Accuracy grade(C3 or C5)

Standard products in stock SD series
标准库存品 SD系列

SD0401 | Shaft dia.(轴径) $\phi 4$ Lead(导程)1mm | C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	$\phi 0.6$
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Left&Right 左右
Shaft root dia. 丝杠轴底径	$\phi 3.4$
Number of circuit 循环数	1×3
Shaft,Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			Travel deviation 代表移动量误差 e_p	Variation 波动 V_u				Dynamic 额定动负载 C_a	Static 额定静负载 C_oa
SD0401-50L50R140C3	35	C3	± 0.008	0.008	0.035	0	~ 0.010	300	430
SD0401-50L50R140C5	35	C5	± 0.018	0.018	0.050	~ 0.005	—		

Note 1) Please designate end-journal profile with your sketch.

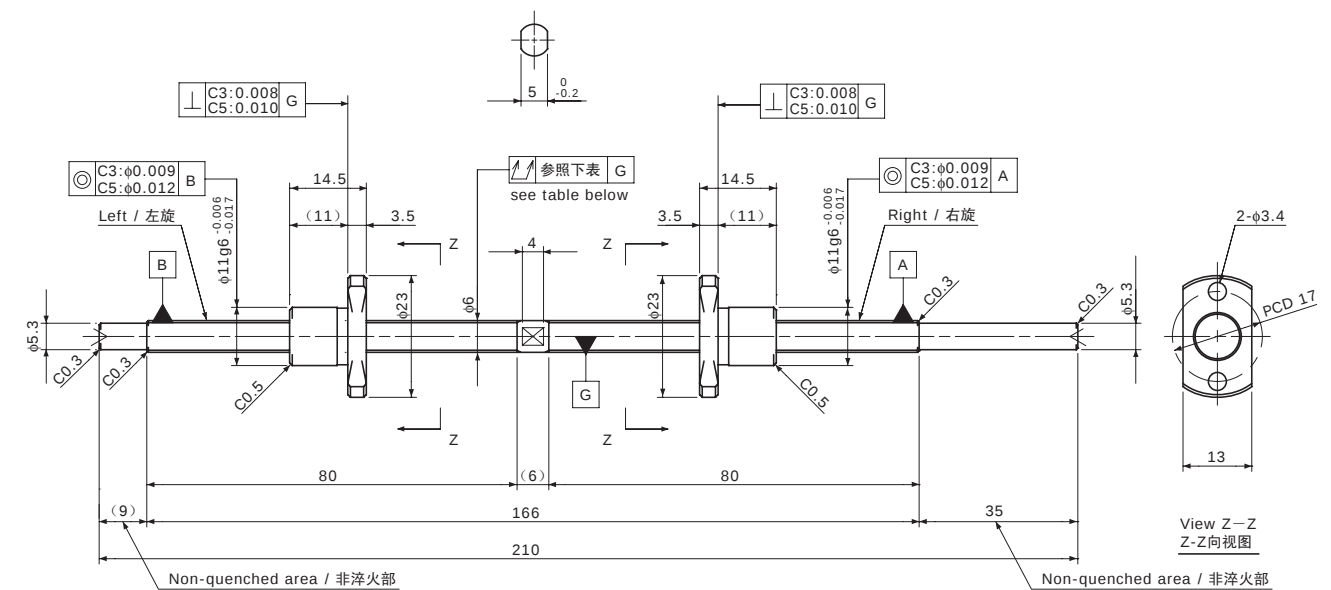
Note 2) Absolute position of both Nuts related to the Screw Shaft is not under the control.

注1)轴端的追加加工请结合图纸进行指示。

注2)未规定左右螺母相对于丝杠轴的绝对位置。

Standard products in stock SD series
标准库存品 SD系列

SD0601 | Shaft dia.(轴径) $\phi 6$ Lead(导程)1mm | C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	$\phi 0.8$
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Left&Right 左右
Shaft root dia. 丝杠轴底径	$\phi 5.3$
Number of circuit 循环数	1×3
Shaft,Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			Travel deviation 代表移动量误差 e_p	Variation 波动 V_u				Dynamic 额定动负载 C_a	Static 额定静负载 C_oa
SD0601-80L80R210C3	65	C3	± 0.008	0.008	0.050	0	~ 0.013	550	1000
SD0601-80L80R210C5	65	C5	± 0.018	0.018	0.065	~ 0.005	—		

Note 1) Please designate end-journal profile with your sketch.

Note 2) Absolute position of both Nuts related to the Screw Shaft is not under the control.

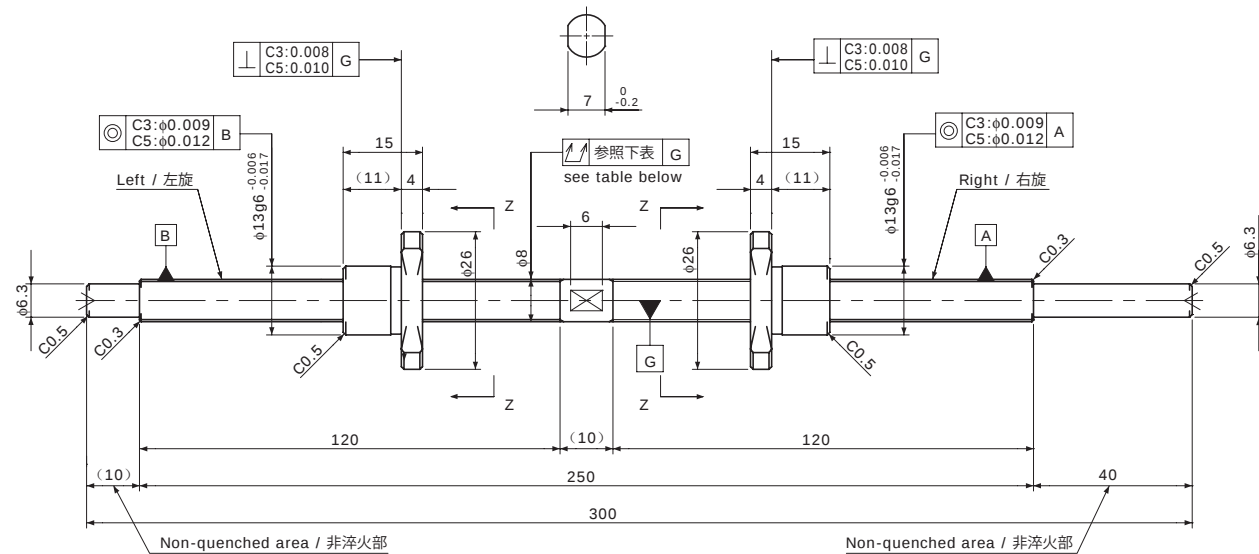
注1)轴端的追加加工请结合图纸进行指示。

注2)未规定左右螺母相对于丝杠轴的绝对位置。

Standard products in stock SD series
标准库存品 SD系列

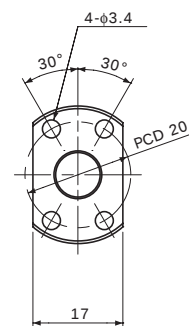
SD0801

Shaft dia.(轴径) $\phi 8$ Lead(导程) 1mm C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	$\phi 0.8$	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Left&Right 左右	
Shaft root dia. 丝杠轴底径	$\phi 7.3$	
Number of circuit 循环数	1×3	
Shaft,Nut material 轴、螺母材质	SCM415H	
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	



View Z-Z
Z-Z向视图

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			Travel deviation 代表移动量误差 e_p	Variation 波动 V_u				Dynamic 额定动负载 C_a	Static 额定静负载 C_{0a}
SD0801-120L120R300C3	105	C3	± 0.010	0.008	0.050	0	~ 0.018	650	1300
SD0801-120L120R300C5	105	C5	± 0.020	0.018	0.065	~ 0.005	—		

Note 1) Please designate end-journal profile with your sketch.

Note 2) Absolute position of both Nuts related to the Screw Shaft is not under the control.

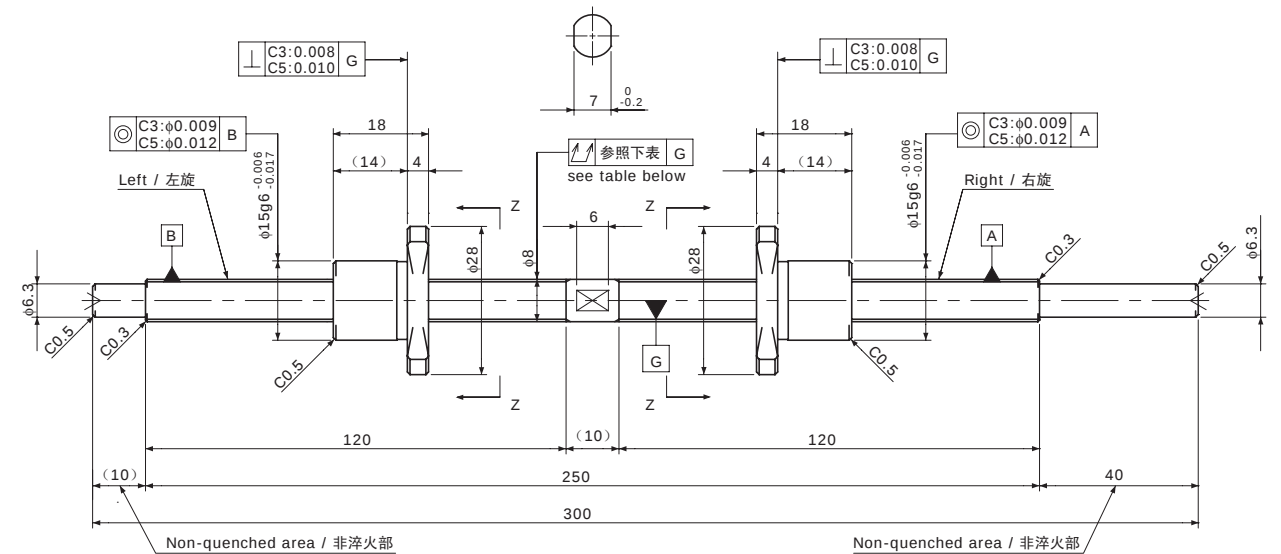
注1)轴端的追加加工请结合图纸进行指示。

注2)未规定左右螺母相对于丝杠轴的绝对位置。

Standard products in stock SD series
标准库存品 SD系列

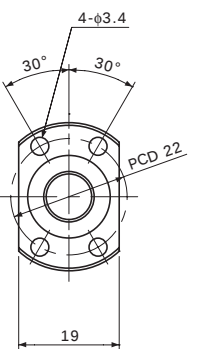
SD0802

Shaft dia.(轴径) $\phi 8$ Lead(导程) 2mm C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	$\phi 1.2$	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Left&Right 左右	
Shaft root dia. 丝杠轴底径	$\phi 7.0$	
Number of circuit 循环数	1×3	
Shaft,Nut material 轴、螺母材质	SCM415H	
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	



Vies Z-Z
Z-Z向视图

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			Travel deviation 代表移动量误差 e_p	Variation 波动 V_u				Dynamic 额定动负载 C_a	Static 额定静负载 C_{0a}
SD0802-120L120R300C3	100	C3	± 0.010	0.008	0.050	0	~ 0.020	1300	2300
SD0802-120L120R300C5	100	C5	± 0.020	0.018	0.065	~ 0.005	—		

Note 1) Please designate end-journal profile with your sketch.

Note 2) Absolute position of both Nuts related to the Screw Shaft is not under the control.

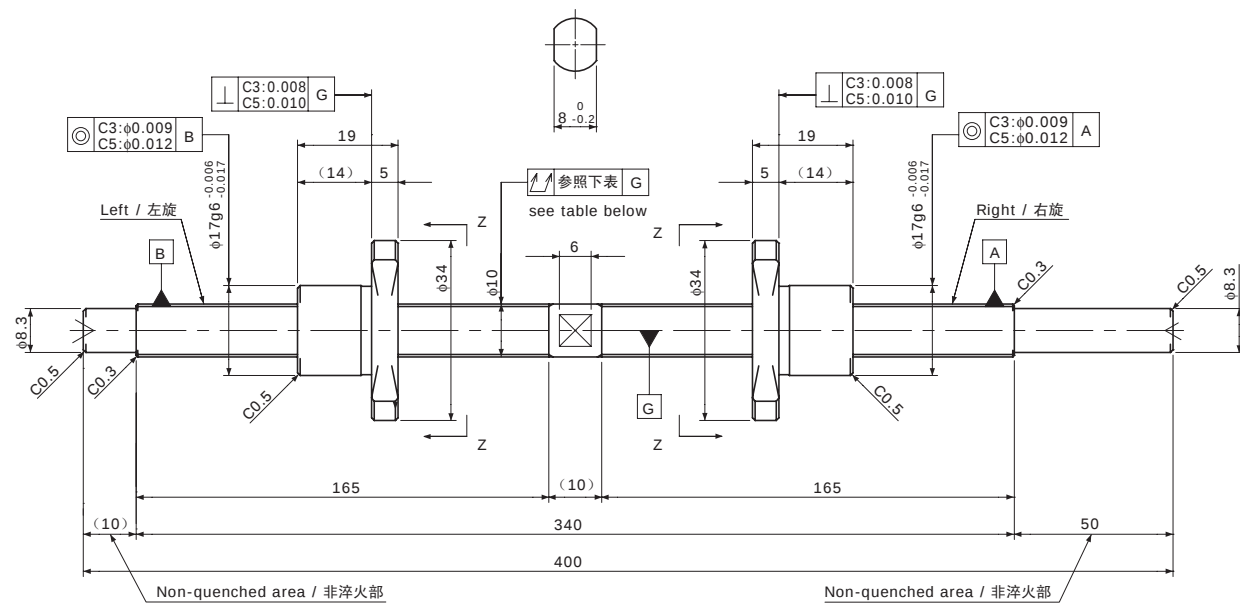
注1)轴端的追加加工请结合图纸进行指示。

注2)未规定左右螺母相对于丝杠轴的绝对位置。

Standard products in stock SD series
标准库存品 SD系列

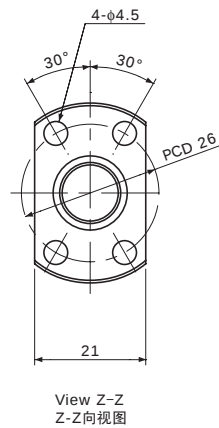
SD1002

Shaft dia.(轴径) $\phi 10$ Lead(导程)2mm C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	$\phi 1.2$	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Left&Right 左右	
Shaft root dia. 丝杠轴底径	$\phi 9.0$	
Number of circuit 循环数	1×3	
Shaft,Nut material 轴、螺母材质	SCM415H	
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	



Unit(单位): mm

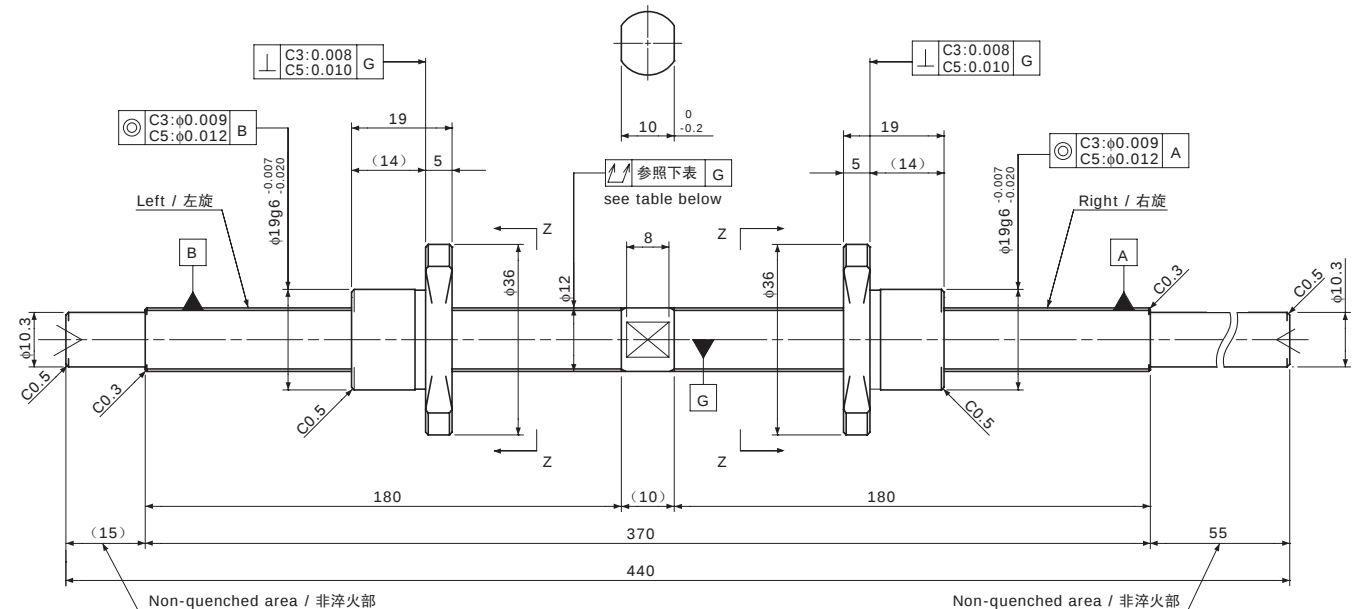
Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			Travel deviation 代表移动量误差 e_p	Variation 波动 V_u				Dynamic 额定动负载 C_a	Static 额定静负载 C_{0a}
SD1002-165L165R400C3	145	C3	± 0.010	0.008	0.050	0	~ 0.025	1450	3000
SD1002-165L165R400C5	145	C5	± 0.020	0.018	0.065	~ 0.005	—		

Note 1) Please designate end-journal profile with your sketch. 注1)轴端的追加加工请结合图纸进行指示。
Note 2) Absolute position of both Nuts related to the Screw Shaft is not under the control. 注2)未规定左右螺母相对于丝杠轴的绝对位置。

Standard products in stock SD series
标准库存品 SD系列

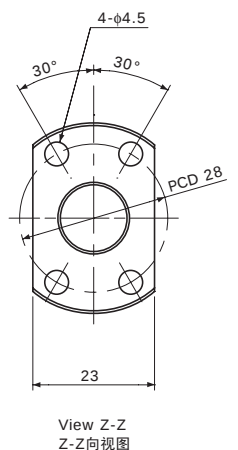
SD1202

Shaft dia.(轴径) $\phi 12$ Lead(导程)2mm C3&C5



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	$\phi 1.2$	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Left&Right 左右	
Shaft root dia. 丝杠轴底径	$\phi 11.0$	
Number of circuit 循环数	1×3	
Shaft,Nut material 轴、螺母材质	SCM415H	
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	



Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			Travel deviation 代表移动量误差 e_p	Variation 波动 V_u				Dynamic 额定动负载 C_a	Static 额定静负载 C_{0a}
SD1202-180L180R440C3	160	C3	± 0.010	0.008	0.065	0	~ 0.035	1600	3700
SD1202-180L180R440C5	160	C5	± 0.020	0.018	0.080	~ 0.005	—		

Note 1) Please designate end-journal profile with your sketch. 注1)轴端的追加加工请结合图纸进行指示。
Note 2) Absolute position of both Nuts related to the Screw Shaft is not under the control. 注2)未规定左右螺母相对于丝杠轴的绝对位置。

SR/SSR系列 冷轧滚珠丝杠标准库存品

SR/SSR series Standardized Rolled Ball Screws

齐备有Ct7级、Ct10级冷轧滚珠丝杠的标准库存品。最适用于经济型设计，只需对轴端进行加工，即可在短期内供货。

此外，还可选用不锈钢冷轧滚珠丝杠系列。

Rolled Ball Screws with accuracy Ct7 and Ct10 are available in stock. It is suitable for low cost design. Rolled Ball Screws with end-journal machining are available for short delivery.

Stainless Rolled Ball Screws are also available.

●丝杠轴公称外径与导程的组合 Combination of Shaft nominal dia. & Lead

Unit(单位): mm

Lead 导程	1	2	2.5	4	5	6	8	10	12	15	20
Shaft dia. 公称外径											
4	A245	A246									
5				A247							
6	A248 A273	A249				A250		A251			
8	A252 A274	A253 A275	A254		A255		A256	A257	A258		
10		A259 A276		A260	A261			A262		A263	A264
12		A265						A266			
14		A267		A268							
15					A269			A270			A271

注1)用红色标示的型号可提供不锈钢冷轧滚珠丝杠。
注2)表中的数字表示产品刊载页码。
Note 1)The models marked red are available for Stainless Rolled Ball Screws.
Note 2)The numbers in a table : showing a page in this catalogue.

●公称型号的构成 Model number notation

SR 06 01 — 300 R 300 C7

① ② ③ ④ ⑤ ⑥ ⑦

- ①系列符号
SR : 冷轧滚珠丝杠
SSR: 不锈钢冷轧滚珠丝杠
- ②丝杠轴公称外径(mm)
- ③导程(mm)
- ④螺纹部长度(mm)
- ⑤螺纹旋向(R=右旋)
- ⑥丝杠轴总长(mm)
- ⑦精度等级(C7或C10)

- ①Rolled Ball Screws Series No.
SR : Rolled Ball Screws
SSR : Stainless Rolled Ball Screws
- ②Screw Shaft nominal diameter(mm)
- ③Lead(mm)
- ④Screw thread length(mm)
- ⑤Thread direction(R=Right-hand)
- ⑥Screw Shaft total length(mm)
- ⑦Accuracy grade(C7 or C10)

●精度等级和轴向间隙

SR系列(冷轧滚珠丝杠标准库存品)及SSR系列(不锈钢冷轧滚珠丝杠标准库存品)的精度等级有JIS Ct7和JIS Ct10两种。轴向间隙根据精度等级不同备有0.020mm以下(Ct7)及0.050mm以下(Ct10)两种。

●Accuracy Grade & Axial play

Accuracy grade of SR series (Standardized Rolled Ball Screws) and SSR series (Standardized Stainless Rolled Ball Screws) are based on JIS Ct7 and JIS Ct10. According to accuracy grade, Axial play 0.020mm or less (Ct7) and 0.050mm or less (Ct10) are in stock.

●材质和表面硬度

SR系列(冷轧滚珠丝杠标准库存品)及SSR系列(不锈钢冷轧滚珠丝杠标准库存品)的材质和表面硬度如下所示。

●Material & Surface hardness

Materials and Surface hardness of SR series (Standardized Rolled Ball Screws) and SSR series (Standardized Stainless Rolled Ball Screws) are as follows.

Products 产品类别	Material 材质	Heat treatment 热处理	Surface hardness 丝杠部分的表面硬度
Rolled Ball Screws (SR series) 普通冷轧 (SR系列)	Shaft/丝杠轴 : SCM415或SUJ2	Carburizing and Quenching or Quenching & Tempering 渗碳淬火或淬火、回火	HRC58 or more HRC58以上
	Nut / 螺母 : SCM415	Carburizing and Quenching 渗碳淬火	
Stainless Rolled Ball Screws (SSR series) 不锈钢冷轧 (SSR系列)	Shaft/丝杠轴 : SUS440C	Induction hardening 高频淬火	HRC55 or more HRC55以上
	Nut / 螺母 : SUS440C	Vacuum hardening 真空淬火	

●润 滑

为防止生锈，未对轴端进行加工的SR系列(冷轧滚珠丝杠标准库存品)及SSR系列(不锈钢冷轧滚珠丝杠标准库存品)产品均涂抹有防锈油。由于防锈油不具备润滑性，因此在使用前请另行涂抹润滑剂。

如无特殊指定，建议使用KSS原装润滑油脂(MSG No.2)。

●Lubrication

SR series (Standardized Rolled Ball Screws) and SSR series (Standardized Stainless Rolled Ball Screws) without end-journal machining are applied with anti-rust oil for rust prevention.

Anti-rust oil does not have lubricating function so that please apply the Grease or lubrication oil when using the Ball Screws.

If there is no specific instruction, KSS would recommend our original Grease (MSG No.2) as standard lubricant.

Please feel free to contact us.

●其他

SR系列(冷轧滚珠丝杠标准库存品)及SSR系列(不锈钢冷轧滚珠丝杠标准库存品)的轴端形状未进行标准化。联系本公司进行追加加工时，请客户提供规格图。

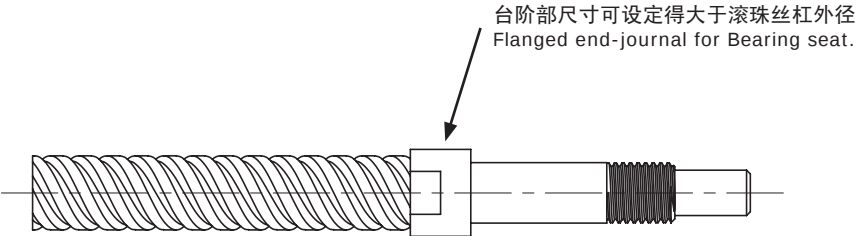
此外，固定侧轴端可设计得大于丝杠轴外径的“台阶型冷轧滚珠丝杠”(参照下图)也实现了产品系列化，详情请参照第A277页或垂询本公司。

●Others

End-journal configuration of SR series (Standardized Rolled Ball Screws) and SSR series (Standardized stainless Rolled Ball Screws) are not standardized. When you request additional machining, please send us a drawing with end-journal profile.

Rolled Ball Screws with Integrated end-journal, which is bigger Bearing face than supported seat, are available (SRT/SSRT series) as shown below.

Please refer to page A277 or ask KSS.

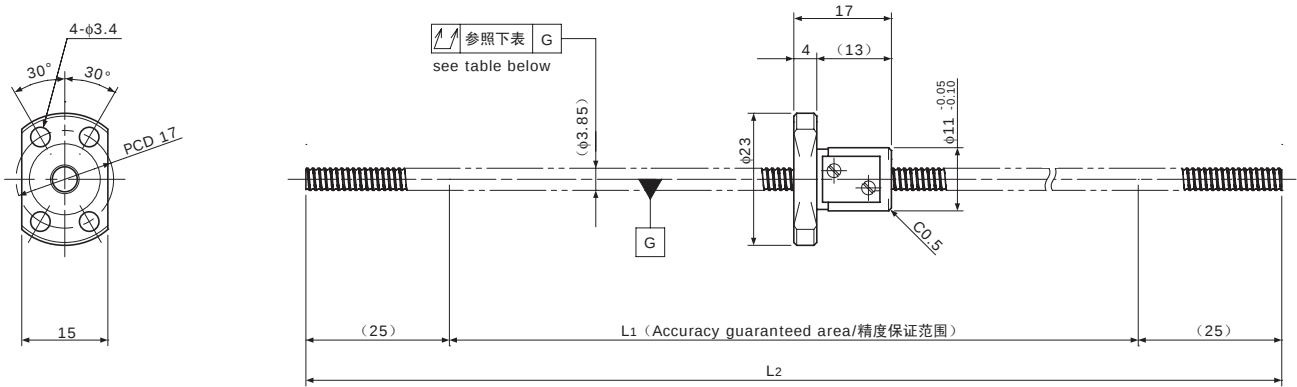


Standard products in stock SR series
标准库存品 SR系列

SR0401

Shaft dia.(轴径) $\phi 4$ Lead(导程)1mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	$\phi 0.8$	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	$\phi 3.3$	
Number of circuit 循环数	3.7×1	
Shaft, Nut material 轴、螺母材质	SCM415H	
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR0401-250R250C7	180	Ct7	200	250	± 0.06	0.05	0.200	~ 0.020	—	560	790
SR0401-250R250C10	180	Ct10	200	250	± 0.28	0.21	0.400	~ 0.050			

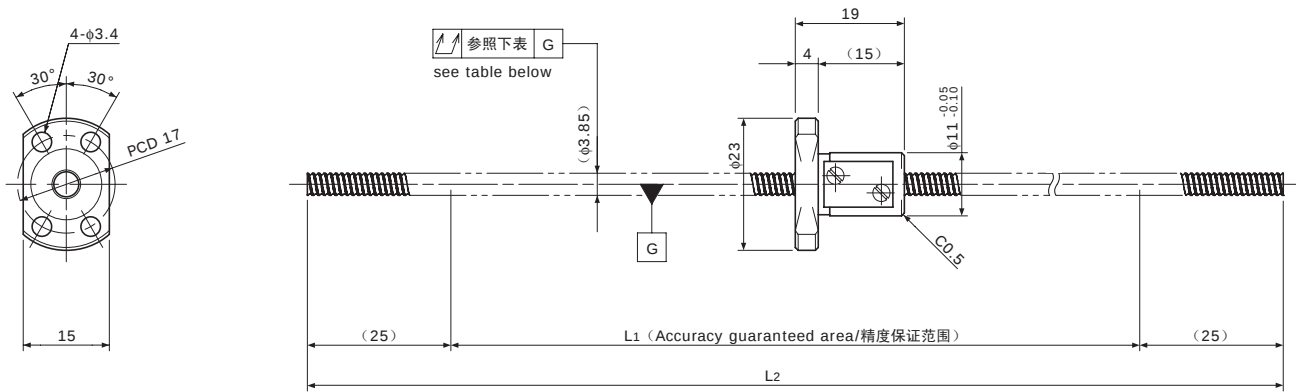
Note)Please designate end-journal profile with your sketch. 注)轴端的追加加工请结合图纸进行指示。

Standard products in stock SR series
标准库存品 SR系列

SR0402

Shaft dia.(轴径) $\phi 4$ Lead(导程)2mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	$\phi 0.8$	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	$\phi 3.3$	
Number of circuit 循环数	2.7×1	
Shaft, Nut material 轴、螺母材质	SCM415H	
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR0402-250R250C7	180	Ct7	200	250	± 0.06	0.05	0.200	~ 0.020	—	420	570
SR0402-250R250C10	180	Ct10	200	250	± 0.28	0.21	0.400	~ 0.050			

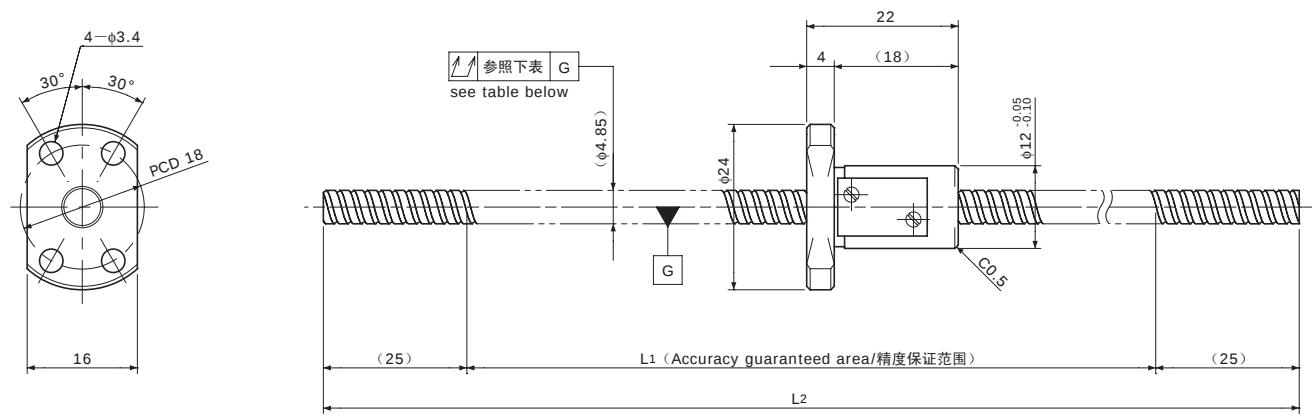
Note)Please designate end-journal profile with your sketch. 注)轴端的追加加工请结合图纸进行指示。

Standard products in stock SR series
标准库存品 SR系列

SR0504

Shaft dia.(轴径)φ5 Lead(导程)4mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ0.8	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ4.3	
Number of circuit 循环数	2.7×1	
Shaft, Nut material 轴、螺母材质	SCM415H	
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR0504-250R250C7	175	Ct7	200	250	±0.06	0.05	0.120	~0.020	—	470	720
SR0504-250R250C10	175	Ct10	200	250	±0.28	0.21	0.240	~0.050			

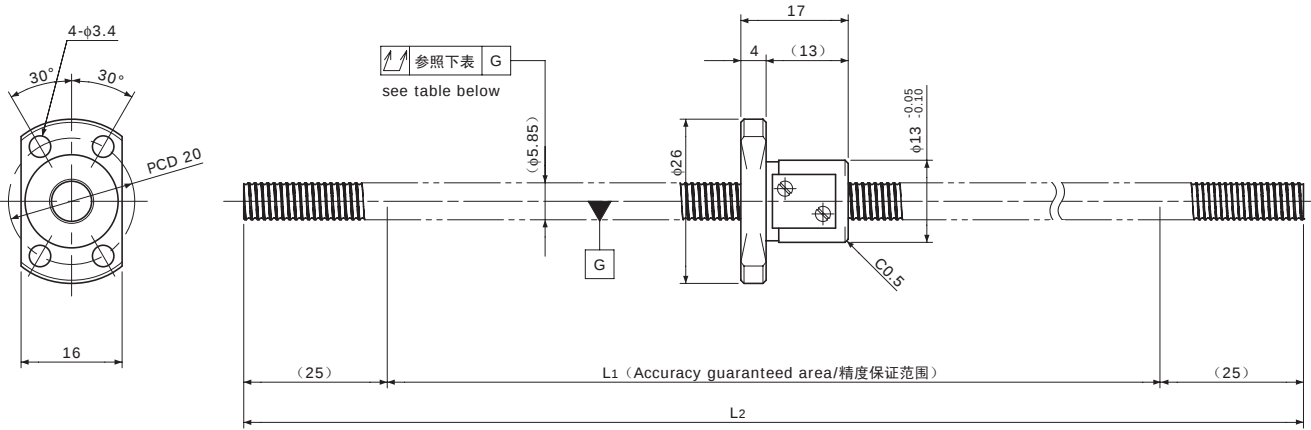
Note)Please designate end-journal profile with your sketch. 注)轴端的追加加工请结合图纸进行指示。

Standard products in stock SR series
标准库存品 SR系列

SR0601

Shaft dia.(轴径)φ6 Lead(导程)1mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ0.8	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ5.3	
Number of circuit 循环数	3.7×1	
Shaft, Nut material 轴、螺母材质	SCM415H	
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR0601-300R300C7	230	Ct7	250	300	±0.08	0.05	0.120	~0.020	—	680	1200
SR0601-300R300C10	230	Ct10	250	300	±0.35	0.21	0.240	~0.050			

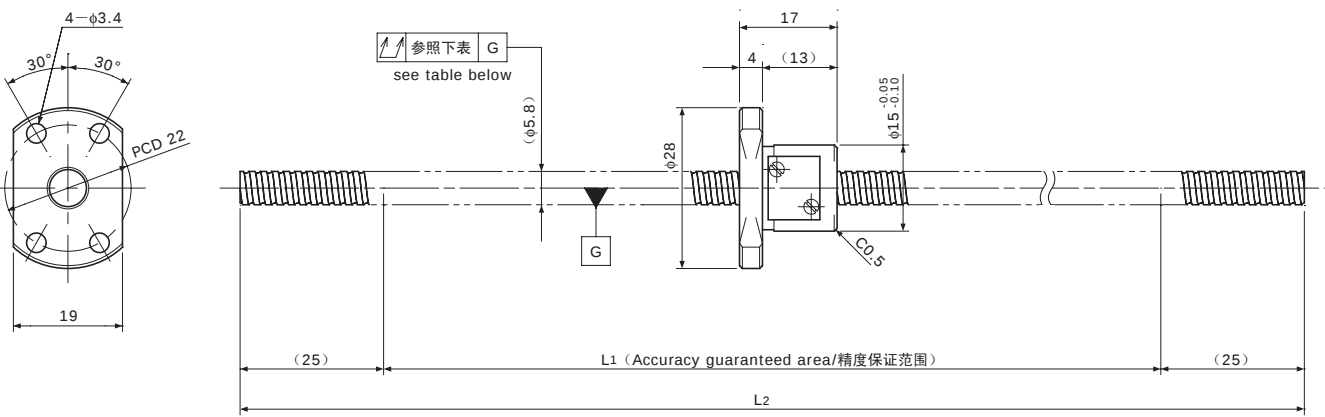
Note)Please designate end-journal profile with your sketch. 注)轴端的追加加工请结合图纸进行指示。

Standard products in stock SR series
标准库存品 SR系列

SR0602

Shaft dia.(轴径)φ6 Lead(导程)2mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径		φ1.0
Number of thread 螺纹条数		1
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径		φ5.1
Number of circuit 循环数		2.7×1
Shaft, Nut material 轴、螺母材质		SCM415H
Surface hardness 螺纹部表面硬度		HRC58~62 (Thread area)
Anti-rust treatment 防锈处理		Anti-rust oil 防锈油

Unit(单位): mm											
Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR0602-300R300C7	230	Ct7	250	300	±0.08	0.05	0.120	~0.020	—	750	1200
SR0602-300R300C10	230	Ct10	250	300	±0.35	0.21	0.240	~0.050			

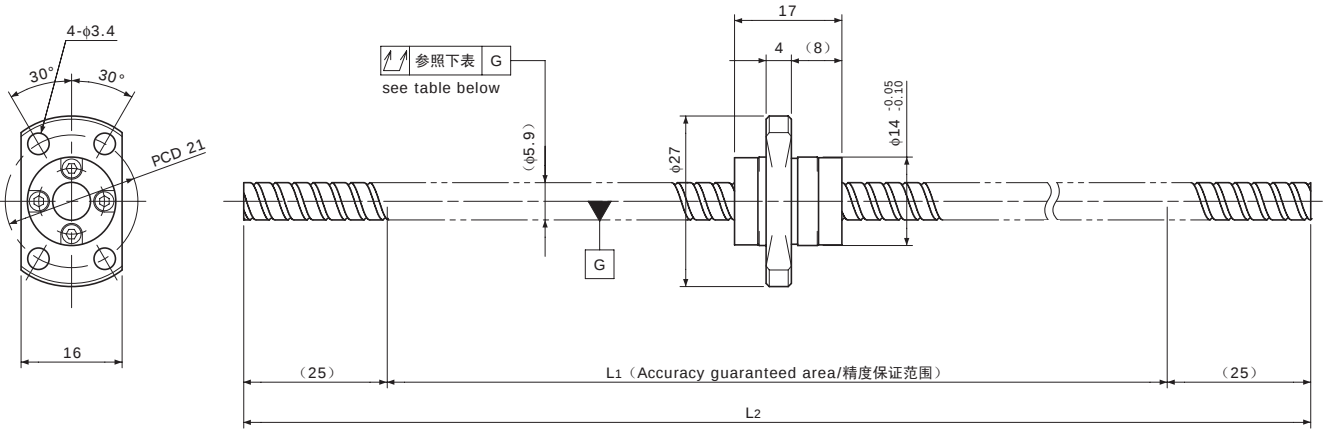
Note)Please designate end-journal profile with your sketch. 注)轴端的追加加工请结合图纸进行指示。

Standard products in stock SR series
标准库存品 SR系列

SR0606

Shaft dia.(轴径)φ6 Lead(导程)6mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径		φ1.0
Number of thread 螺纹条数		2
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径		φ5.2
Number of circuit 循环数		1.6×2
Shaft, Nut material 轴、螺母材质		SCM415H
Surface hardness 螺纹部表面硬度		HRC58~62 (Thread area)
Anti-rust treatment 防锈处理		Anti-rust oil 防锈油

Unit(单位):mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR0606-300R300C7	230	Ct7	250	300	±0.08	0.05	0.120	~0.020	—	870	1450
SR0606-300R300C10	230	Ct10	250	300	±0.35	0.21	0.240	~0.050			

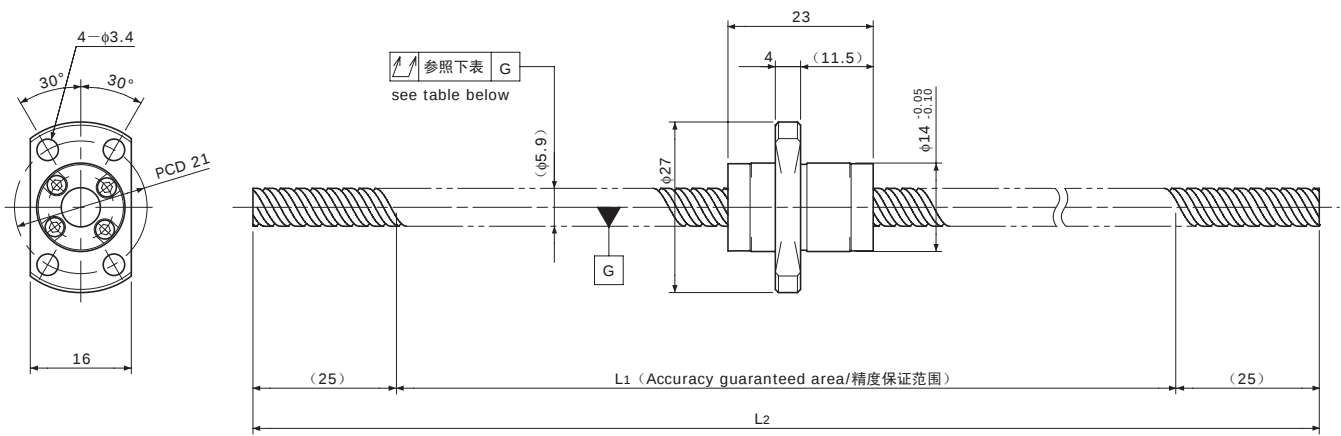
Note)Please designate end-journal profile with your sketch. 注)轴端的追加加工请结合图纸进行指示。

Standard products in stock SR series
标准库存品 SR系列

SR0610

Shaft dia.(轴径)φ6 Lead(导程)10mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ1.2	
Number of thread 螺纹条数	2	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ5.0	
Number of circuit 循环数	1.2×2	
Shaft, Nut material 轴、螺母材质	SCM415H	
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

Unit(单位): mm											
Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR0610-300R300C7	225	Ct7	250	300	±0.08	0.05	0.120	~0.020	—	950	1600
SR0610-300R300C10	225	Ct10	250	300	±0.35	0.21	0.240	~0.050			

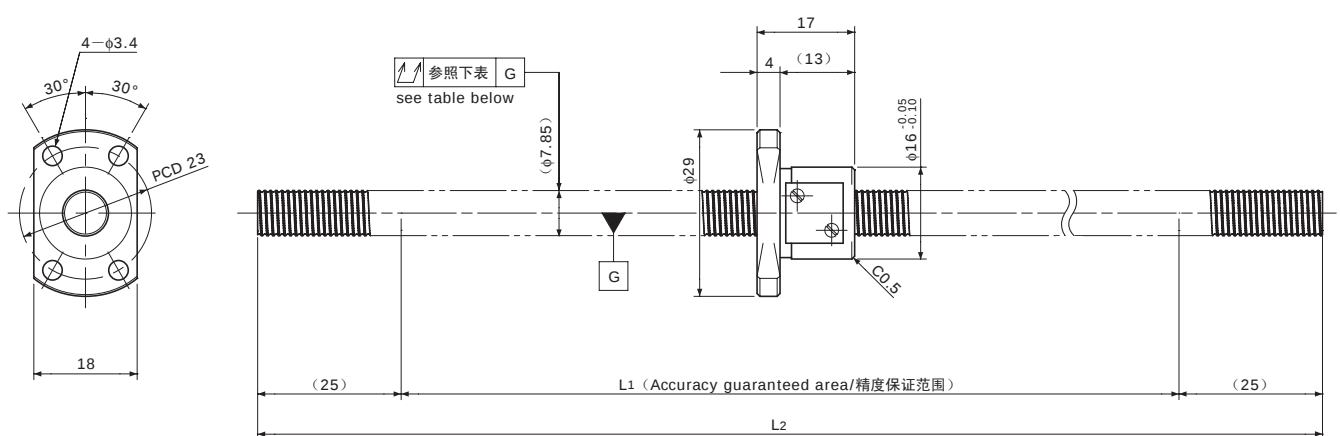
Note)Please designate end-journal profile with your sketch. 注)轴端的追加加工请结合图纸进行指示。

Standard products in stock SR series
标准库存品 SR系列

SR0801

Shaft dia.(轴径)φ8 Lead(导程)1mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ0.8	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ7.3	
Number of circuit 循环数	3.7×1	
Shaft, Nut material 轴、螺母材质	SCM415H	
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

Unit(单位): mm											
Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR0801-400R400C7	330	Ct7	350	400	±0.12	0.05	0.120	~0.020	—	780	1650
SR0801-400R400C10	330	Ct10	350	400	±0.49	0.21	0.240	~0.050			

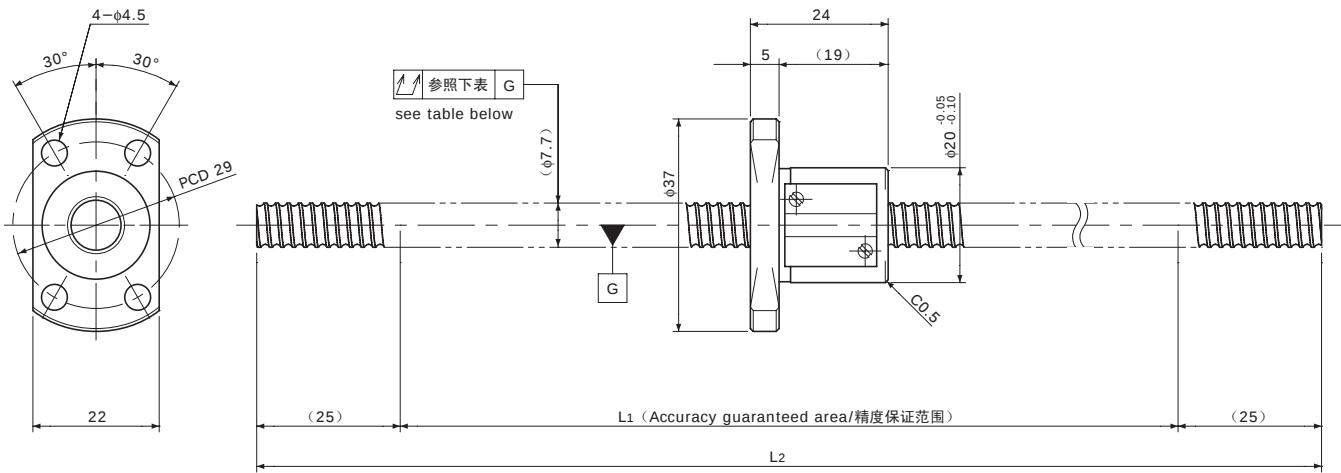
Note)Please designate end-journal profile with your sketch. 注)轴端的追加加工请结合图纸进行指示。

Standard products in stock SR series
标准库存品 SR系列

SR0802

Shaft dia.(轴径)φ8 Lead(导程)2mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ1.5875	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ6.6	
Number of circuit 循环数	3.7×1	
Shaft, Nut material 轴、螺母材质	SCM415H	
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR0802-400R400C7	325	Ct7	350	400	±0.12	0.05	0.120	~0.020	—	2400	4100
SR0802-400R400C10	325	Ct10	350	400	±0.49	0.21	0.240	~0.050			

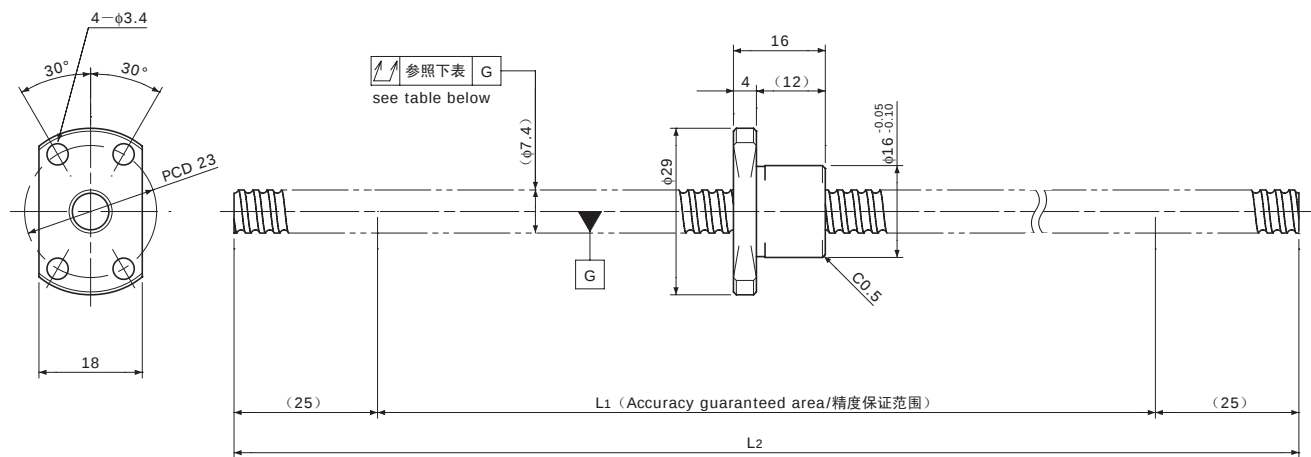
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Standard products in stock SR series
标准库存品 SR系列

SR0802.5

Shaft dia.(轴径)φ8 Lead(导程)2.5mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ1.5875	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ6.3	
Number of circuit 循环数	2.7×1	
Shaft, Nut material 轴、螺母材质	SCM415H	
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR0802.5-400R400C7	330	Ct7	350	400	±0.12	0.05	0.120	~0.020	—	1850	3000
SR0802.5-400R400C10	330	Ct10	350	400	±0.49	0.21	0.240	~0.050			

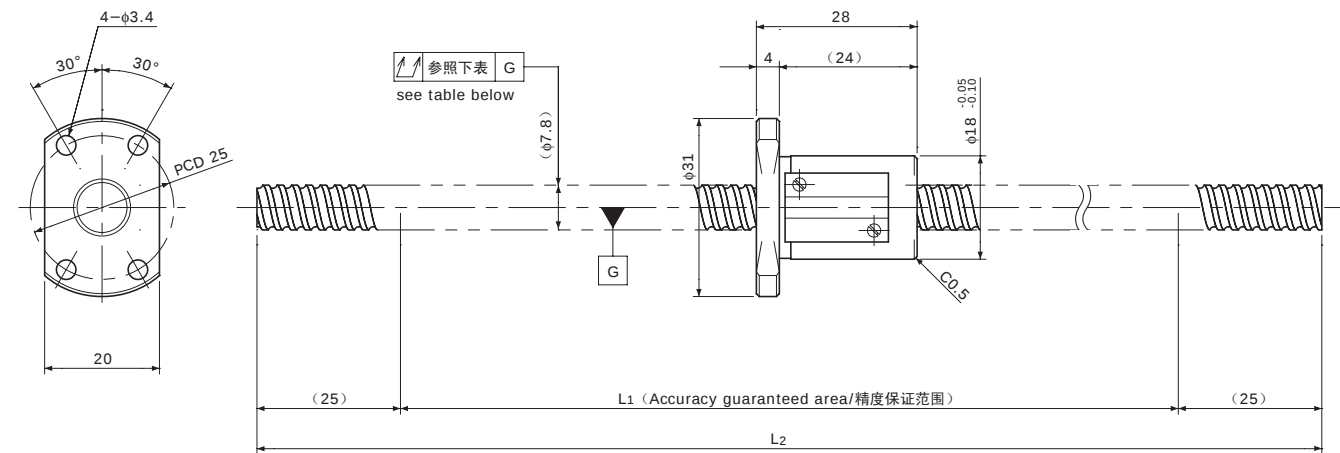
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Standard products in stock SR series
标准库存品 SR系列

SR0805

Shaft dia.(轴径)φ8 Lead(导程)5mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ1.5875
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ6.6
Number of circuit 循环数	2.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR0805-400R400C7	320	Ct7	350	400	±0.12	0.05	0.120	~0.020	—	1850	3000
SR0805-400R400C10	320	Ct10	350	400	±0.49	0.21	0.240	~0.050			

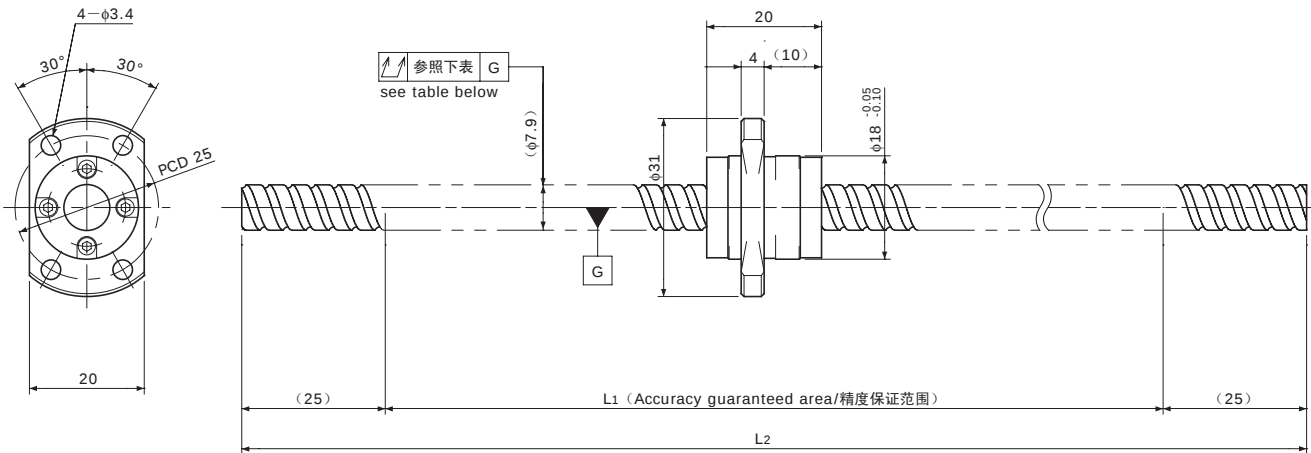
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Standard products in stock SR series
标准库存品 SR系列

SR0808

Shaft dia.(轴径)φ8 Lead(导程)8mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ1.5875
Number of thread 螺纹条数	2
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ6.7
Number of circuit 循环数	1.6×2
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR0808-400R400C7	330	Ct7	350	400	±0.12	0.05	0.120	~0.020	—	2200	3800
SR0808-400R400C10	330	Ct10	350	400	±0.49	0.21	0.240	~0.050			

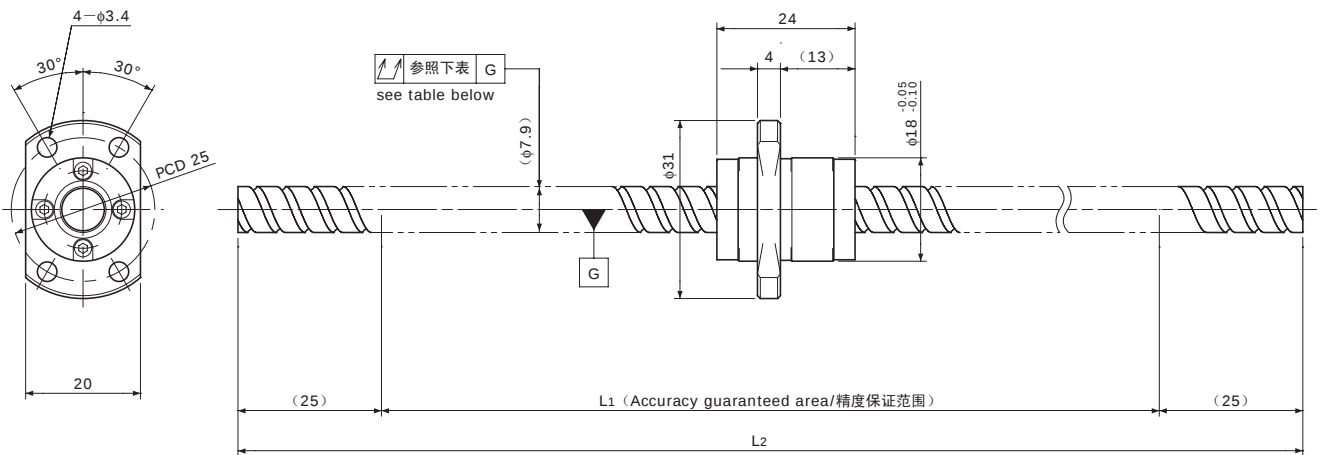
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Standard products in stock SR series
标准库存品 SR系列

SR0810

Shaft dia.(轴径)φ8 Lead(导程)10mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ1.5875
Number of thread 螺纹条数	2
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ6.7
Number of circuit 循环数	1.6×2
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR0810-400R400C7	325	Ct7	350	400	±0.12	0.05	0.120	~0.020	—	2200	3800
SR0810-400R400C10	325	Ct10	350	400	±0.49	0.21	0.240	~0.050			

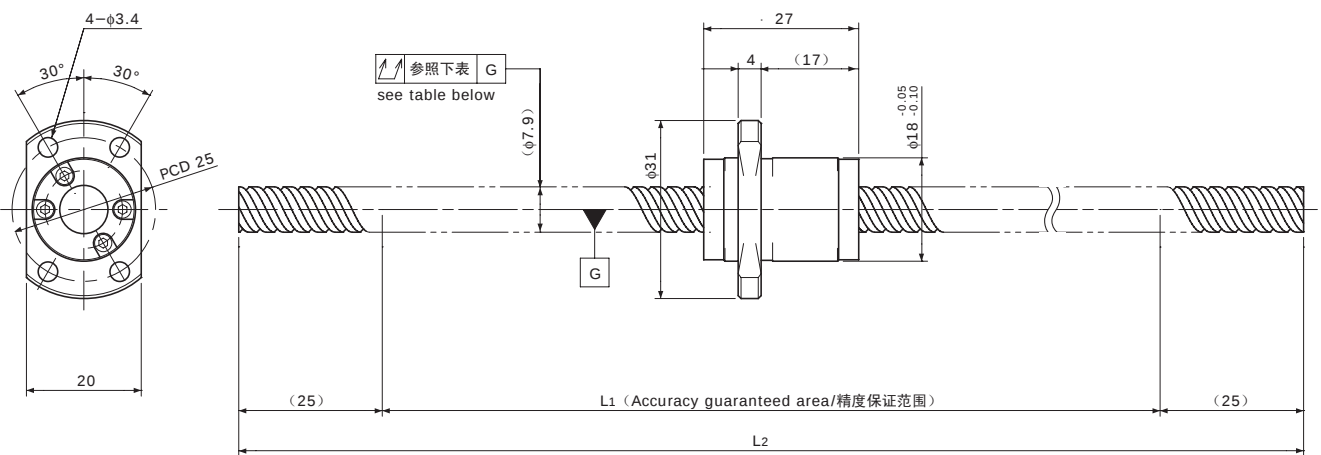
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Standard products in stock SR series
标准库存品 SR系列

SR0812

Shaft dia.(轴径)φ8 Lead(导程)12mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ1.5875
Number of thread 螺纹条数	2
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ6.7
Number of circuit 循环数	1.6×2
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR0812-400R400C7	320	Ct7	350	400	±0.12	0.05	0.120	~0.020	—	2200	4000
SR0812-400R400C10	320	Ct10	350	400	±0.49	0.21	0.240	~0.050			

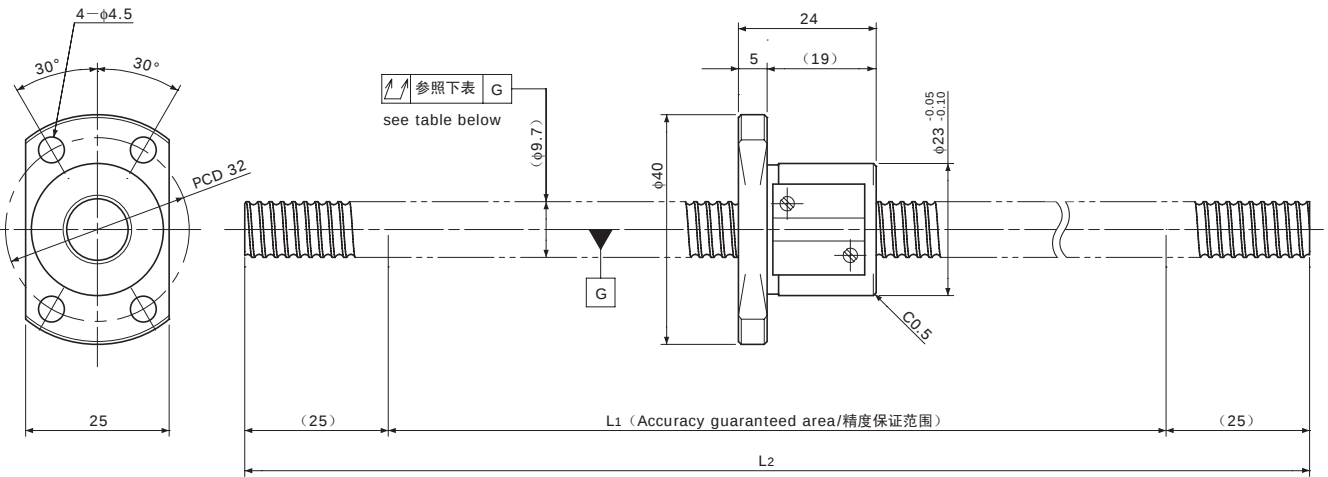
Note)Please designate end-journal profile with your sketch. 注)轴端的追加加工请结合图纸进行指示。

Standard products in stock SR series
标准库存品 SR系列

SR1002

Shaft dia.(轴径)φ10 Lead(导程)2mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ1.5875
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ8.6
Number of circuit 循环数	3.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR1002-400R400C7	325	Ct7	350	400	±0.12	0.05	0.120	~0.020	—	2700	5300
SR1002-400R400C10	325	Ct10	350	400	±0.49	0.21	0.240	~0.050			

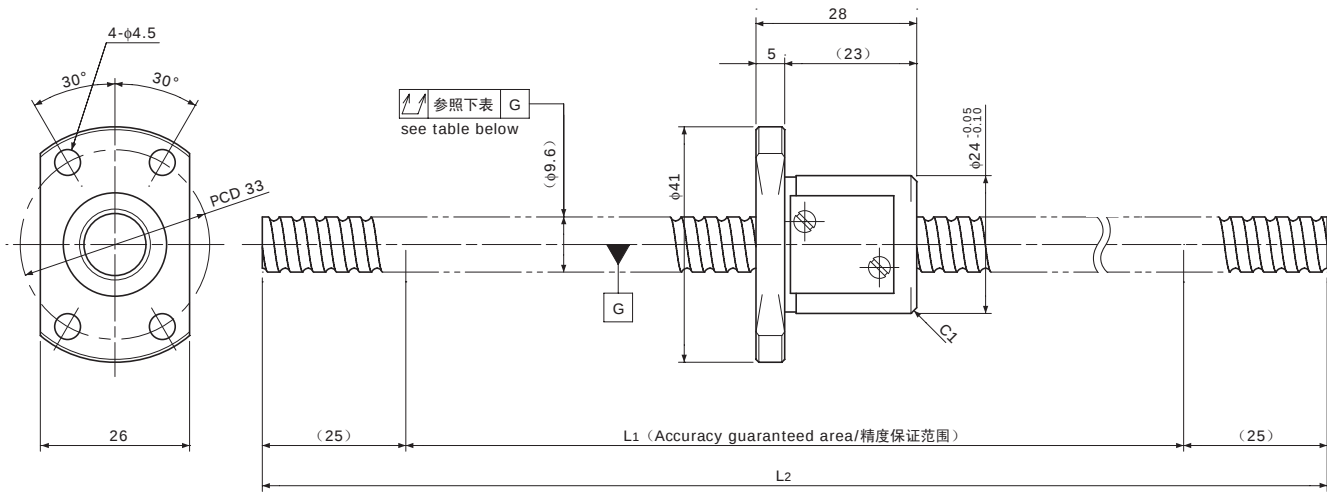
Note)Please designate end-journal profile with your sketch. 注)轴端的追加加工请结合图纸进行指示。

Standard products in stock SR series
标准库存品 SR系列

SR1004

Shaft dia.(轴径)φ10 Lead(导程)4mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ2.0
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ8.2
Number of circuit 循环数	2.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR1004-450R450C7	370	Ct7	400	450	±0.13	0.05	0.120	~0.020	—	3000	5200
SR1004-450R450C10	370	Ct10	400	450	±0.56	0.21	0.240	~0.050			

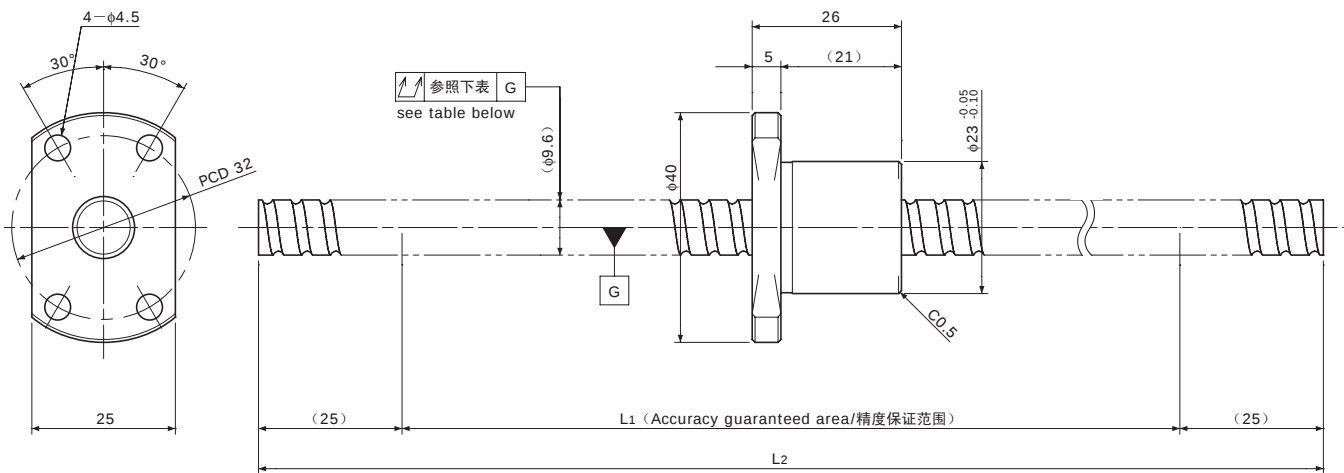
Note)Please designate end-journal profile with your sketch. 注)轴端的追加加工请结合图纸进行指示。

Standard products in stock SR series
标准库存品 SR系列

SR1005

Shaft dia.(轴径)φ10 Lead(导程)5mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ2.0	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ8.2	
Number of circuit 循环数	2.7×1	
Shaft, Nut material 轴、螺母材质	SCM415H	
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR1005-450R450C7	370	Ct7	400	450	±0.13	0.05	0.120	~0.020	—	3000	5200
SR1005-450R450C10	370	Ct10	400	450	±0.56	0.21	0.240	~0.050			

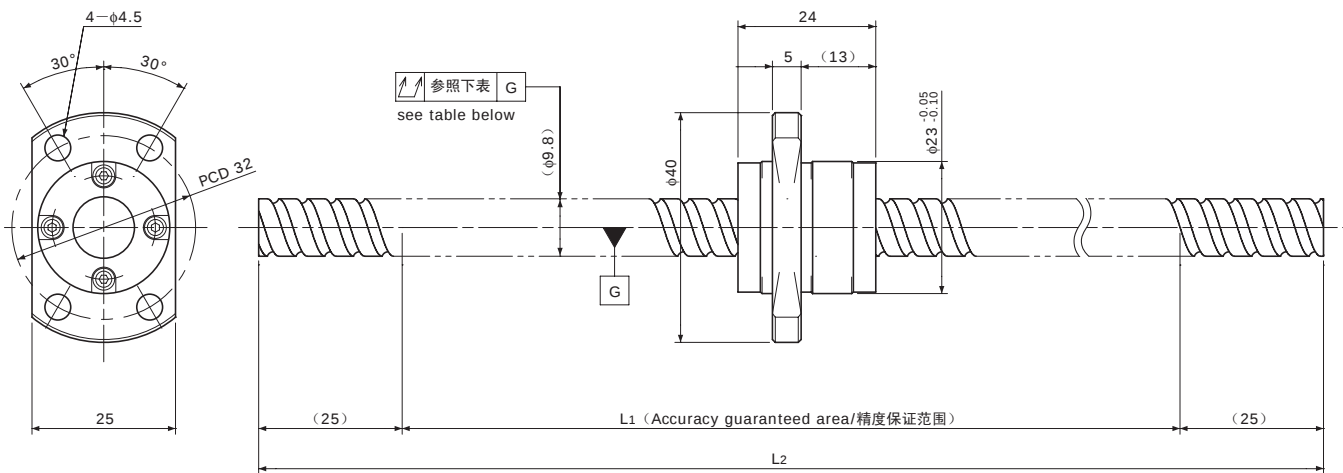
Note)Please designate end-journal profile with your sketch. 注)轴端的追加加工请结合图纸进行指示。

Standard products in stock SR series
标准库存品 SR系列

SR1010

Shaft dia.(轴径)φ10 Lead(导程)10mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ2.0	
Number of thread 螺纹条数	2	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ8.4	
Number of circuit 循环数	1.6×2	
Shaft, Nut material 轴、螺母材质	SCM415H	
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR1010-450R450C7	375	Ct7	400	450	±0.13	0.05	0.120	~0.020	—	3300	5900
SR1010-450R450C10	375	Ct10	400	450	±0.56	0.21	0.240	~0.050			

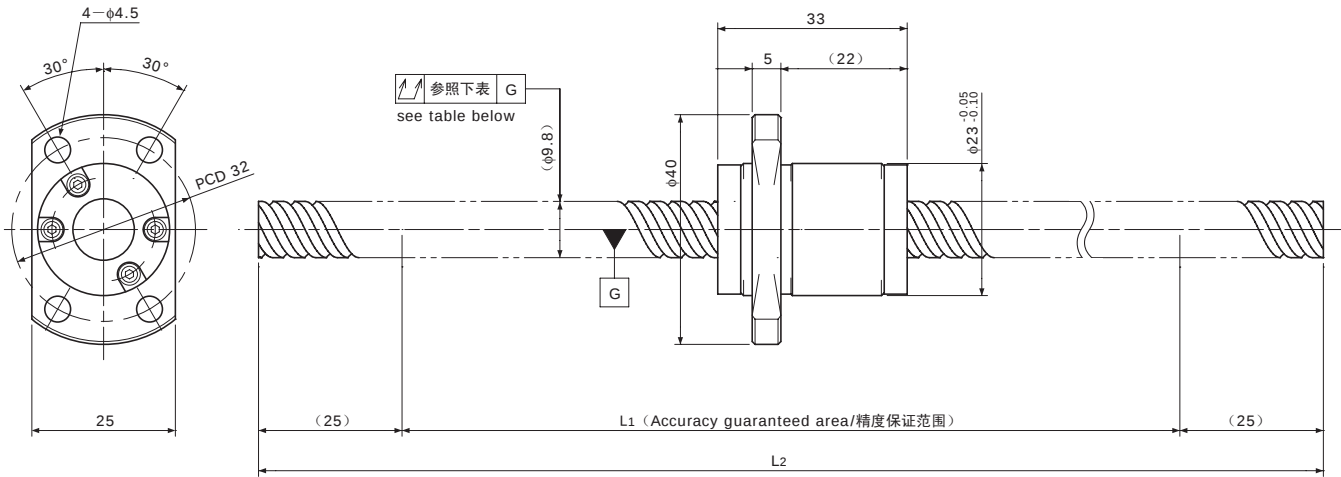
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Standard products in stock SR series
标准库存品 SR系列

SR1015

Shaft dia.(轴径)φ10 Lead(导程)15mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ2.0
Number of thread 螺纹条数	2
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ8.4
Number of circuit 循环数	1.6×2
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR1015-450R450C7	365	Ct7	400	450	±0.13	0.05	0.120	~0.020	—	3300	6400
SR1015-450R450C10	365	Ct10	400	450	±0.56	0.21	0.240	~0.050			

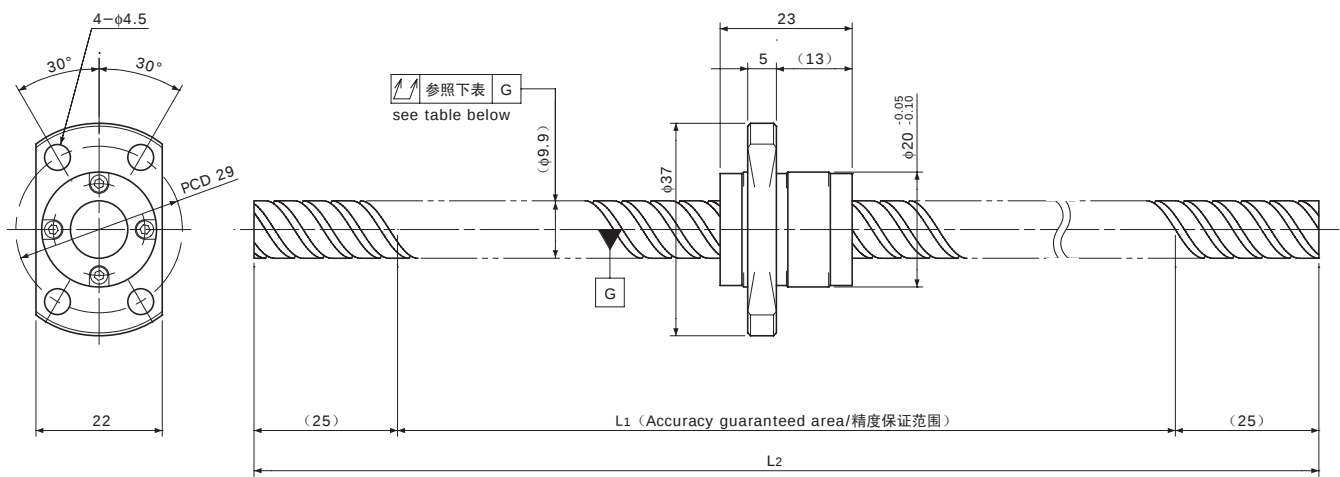
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Standard products in stock SR series
标准库存品 SR系列

SR1020

Shaft dia.(轴径)φ10 Lead(导程)20mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ1.5875
Number of thread 螺纹条数	4
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ8.7
Number of circuit 循环数	0.7×4
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR1020-450R450C7	375	Ct7	400	450	±0.13	0.05	0.120	~0.020	—	2100	4000
SR1020-450R450C10	375	Ct10	400	450	±0.56	0.21	0.240	~0.050			

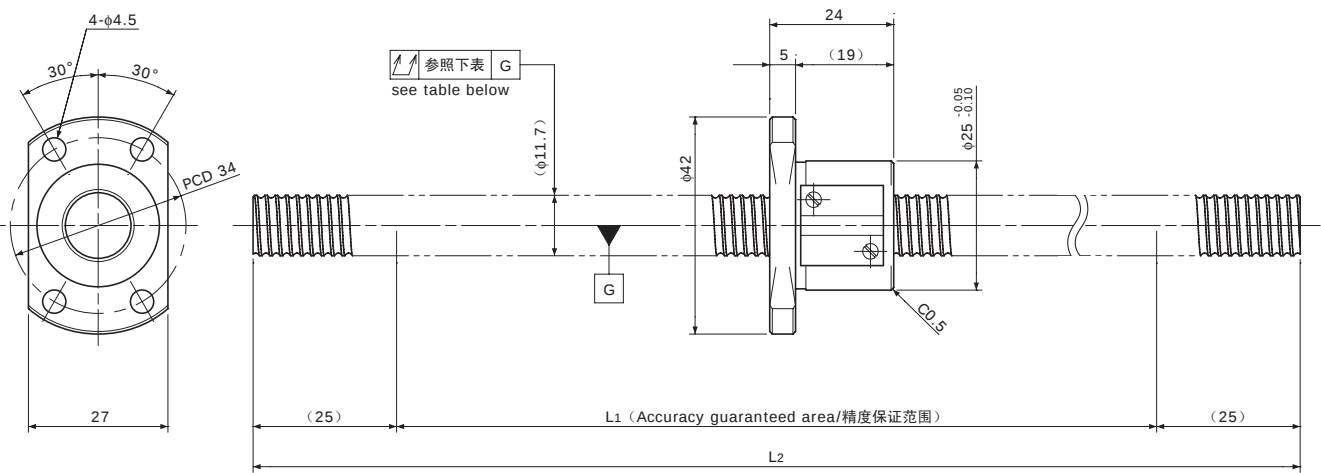
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Standard products in stock SR series
标准库存品 SR系列

SR1202

Shaft dia.(轴径) $\phi 12$ Lead(导程)2mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	$\phi 1.5875$
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	$\phi 10.6$
Number of circuit 循环数	3.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR1202-450R450C7	375	Ct7	400	450	± 0.13	0.05	0.080	~ 0.020	—	3000	6400
SR1202-450R450C10	375	Ct10	400	450	± 0.56	0.21	0.160	~ 0.050			

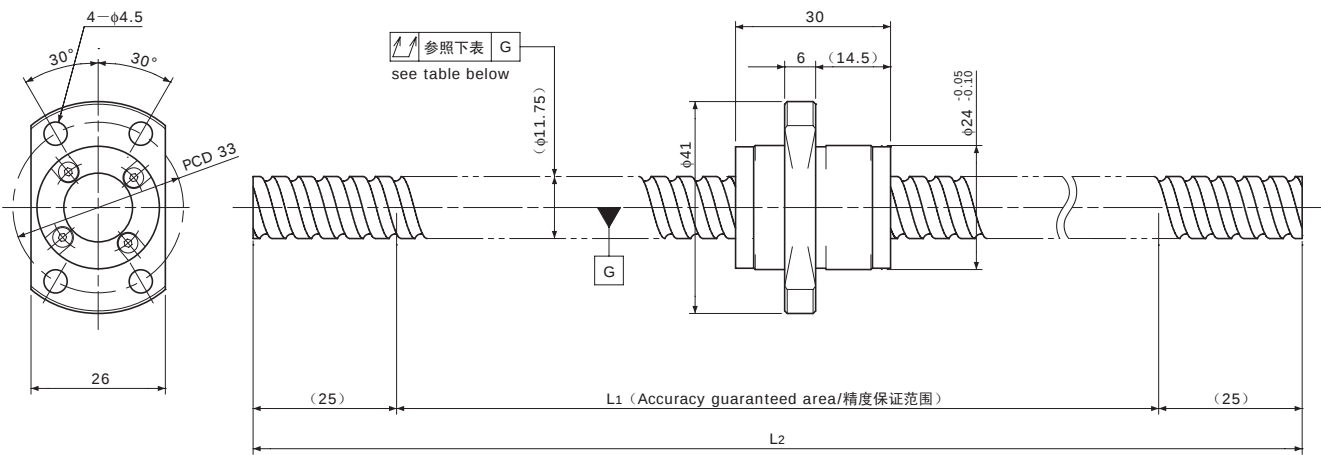
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Standard products in stock SR series
标准库存品 SR系列

SR1210

Shaft dia.(轴径) $\phi 12$ Lead(导程)10mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	$\phi 2.381$
Number of thread 螺纹条数	2
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	$\phi 10.2$
Number of circuit 循环数	1.7×2
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR1210-450R450C7	370	Ct7	400	450	± 0.13	0.05	0.080	~ 0.020	—	5100	9800
SR1210-450R450C10	370	Ct10	400	450	± 0.56	0.21	0.160	~ 0.050			

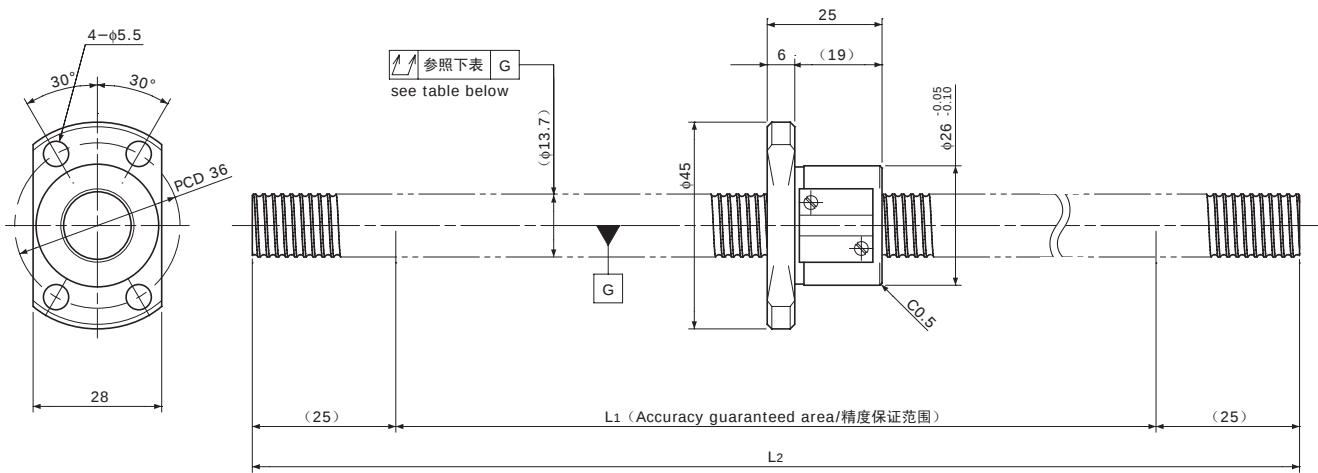
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Standard products in stock SR series
标准库存品 SR系列

SR1402

Shaft dia.(轴径)φ14 Lead(导程)2mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ1.5875
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ12.6
Number of circuit 循环数	3.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR1402-500R500C7	425	Ct7	450	500	±0.15	0.05	0.080	~0.020	—	3200	7500
SR1402-500R500C10	425	Ct10	450	500	±0.63	0.21	0.160	~0.050			

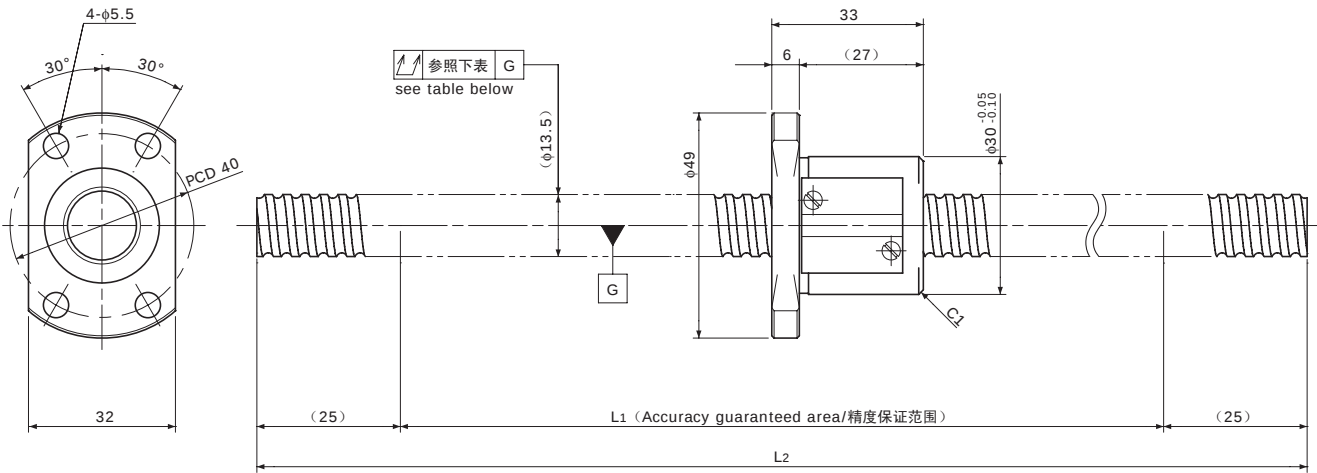
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Standard products in stock SR series
标准库存品 SR系列

SR1404

Shaft dia.(轴径)φ14 Lead(导程)4mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ2.381
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ11.8
Number of circuit 循环数	3.7×1
Shaft, Nut material 轴、螺母材质	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR1404-500R500C7	415	Ct7	450	500	±0.15	0.05	0.080	~0.020	—	5700	11600
SR1404-500R500C10	415	Ct10	450	500	±0.63	0.21	0.160	~0.050			

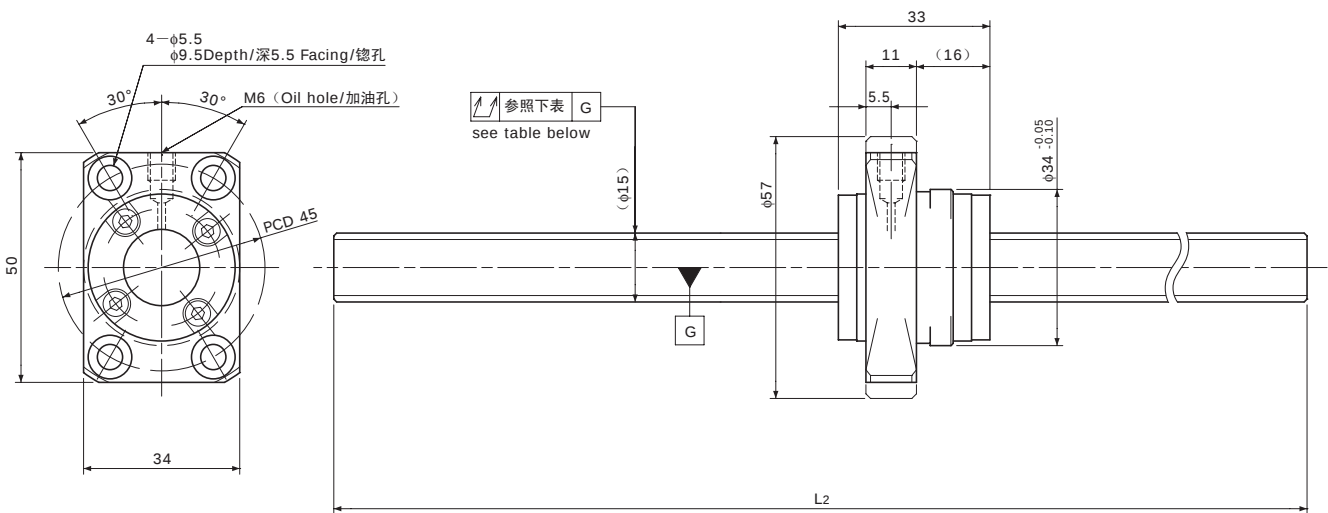
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Standard products in stock SR series
标准库存品 SR系列

SR1505

Shaft dia.(轴径)φ15 Lead(导程)5mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ3.175	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ12.2	
Number of circuit 循环数	3.7×1	
Material 材质	Shaft 轴	SUJ2
	Nut 螺母	SCM415
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR1505-1000R1000C7	965	Ct7	—	1000	±0.34	0.05	0.200	~0.020	—	8900	17000
SR1505-1000R1000C10	965	Ct10	—	1000	±1.40	0.21	0.400	~0.050			

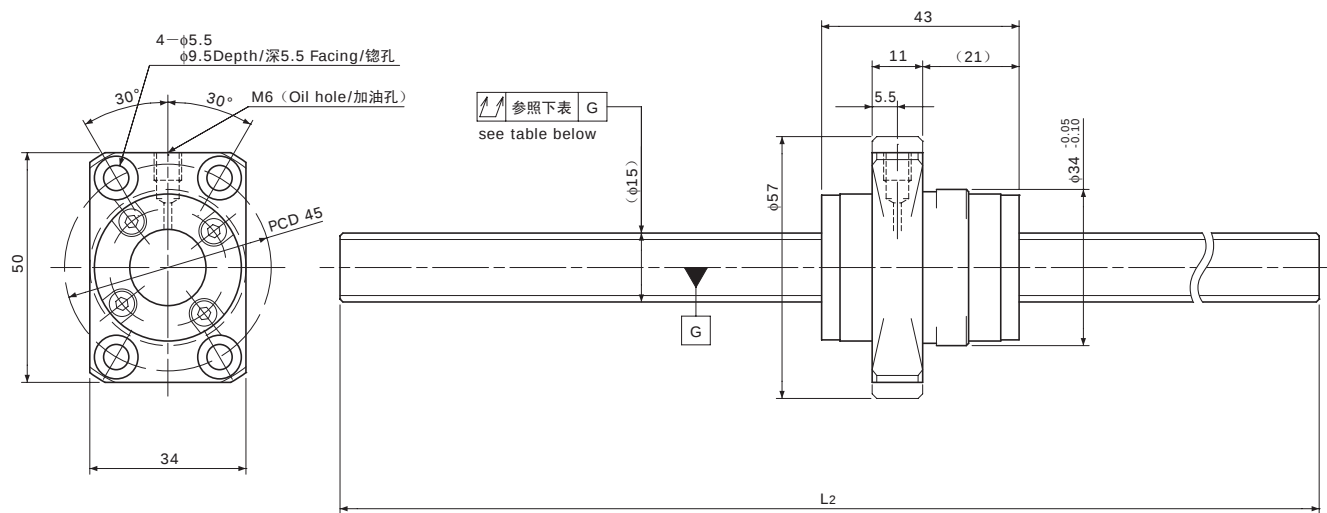
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Standard products in stock SR series
标准库存品 SR系列

SR1510

Shaft dia.(轴径)φ15 Lead(导程)10mm

Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ3.175	
Number of thread 螺纹条数	2	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ12.2	
Number of circuit 循环数	2.7×2	
Material 材质	Shaft 轴	SUJ2
	Nut 螺母	SCM415
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

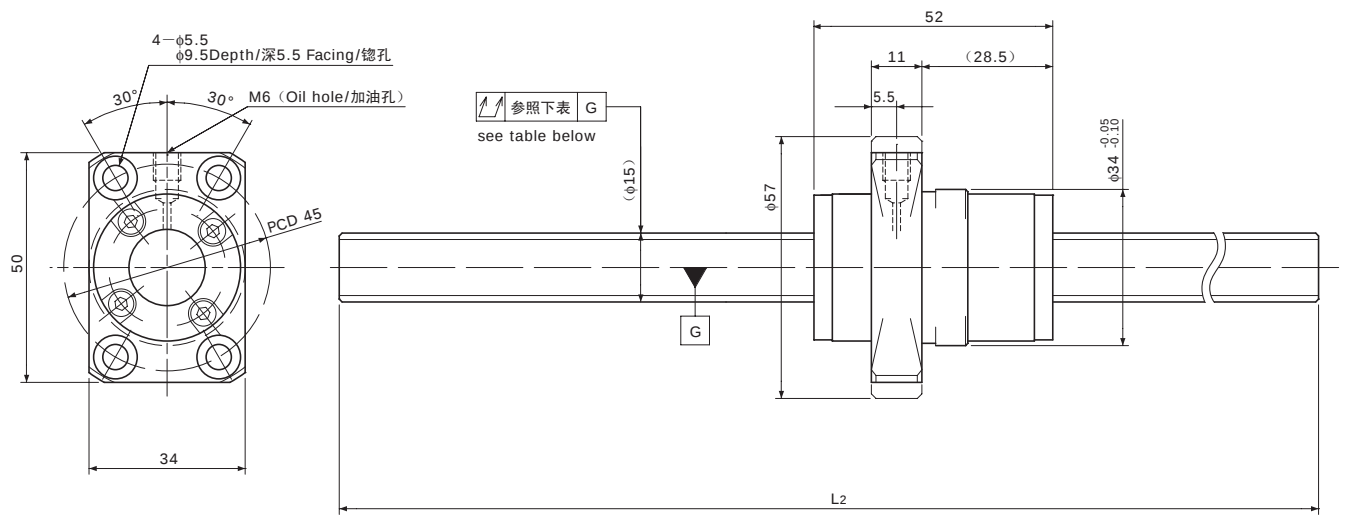
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR1510-1000R1000C7	955	Ct7	—	1000	±0.34	0.05	0.200	~0.020	—	12000	25000
SR1510-1000R1000C10	955	Ct10	—	1000	±1.40	0.21	0.400	~0.050			

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Standard products in stock SR series
标准库存品 SR系列

SR1520 | Shaft dia.(轴径) $\phi 15$ Lead(导程)20mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	$\phi 3.175$	
Number of thread 螺纹条数	2	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	$\phi 12.7$	
Number of circuit 循环数	1.7×2	
Material 材质	Shaft 轴	SUJ2
	Nut 螺母	SCM415
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

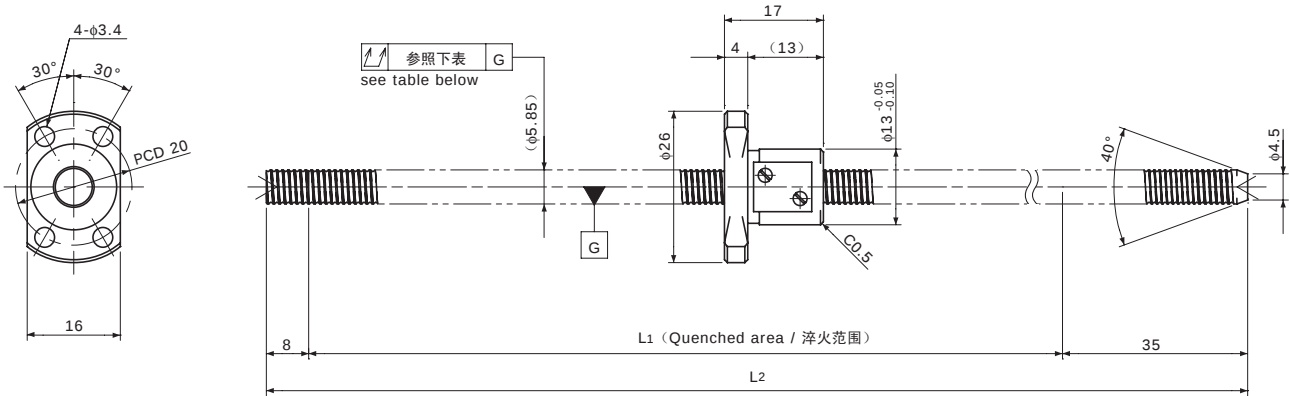
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SR1520-1000R1000C7	945	Ct7	—	1000	± 0.34	0.05	0.200	~ 0.020	—	8000	16000
SR1520-1000R1000C10	945	Ct10	—	1000	± 1.40	0.21	0.400	~ 0.050			

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Standard products in stock SSR series
标准库存品 SSR系列

SSR0601 | Stainless 不锈钢
Shaft dia.(轴径)φ6 Lead(导程)1mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ0.8	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ5.3	
Number of circuit 循环数	3.7×1	
Shaft,Nut material 轴、螺母材质	SUS440C	
Surface hardness 螺纹部表面硬度	HRC55~ (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

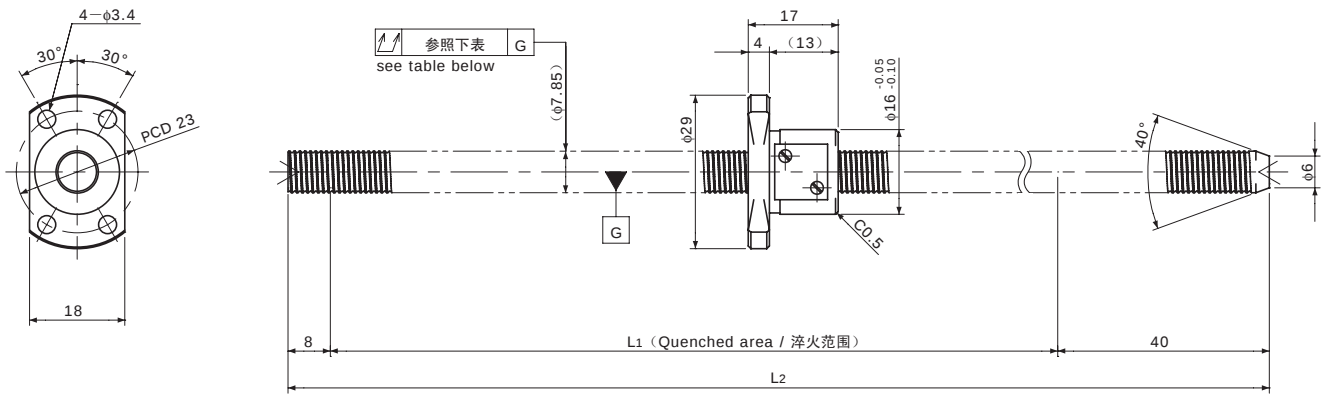
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SSR0601-300C7	240	Ct7	257	300	±0.09	0.05	0.120	~0.020	—	560	900
SSR0601-300C10	240	Ct10	257	300	±0.37	0.21	0.240	~0.050			

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Standard products in stock SSR series
标准库存品 SSR系列

SSR0801 | Stainless 不锈钢
Shaft dia.(轴径)φ8 Lead(导程)1mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ0.8	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ7.3	
Number of circuit 循环数	3.7×1	
Shaft,Nut material 轴、螺母材质	SUS440C	
Surface hardness 螺纹部表面硬度	HRC55~ (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

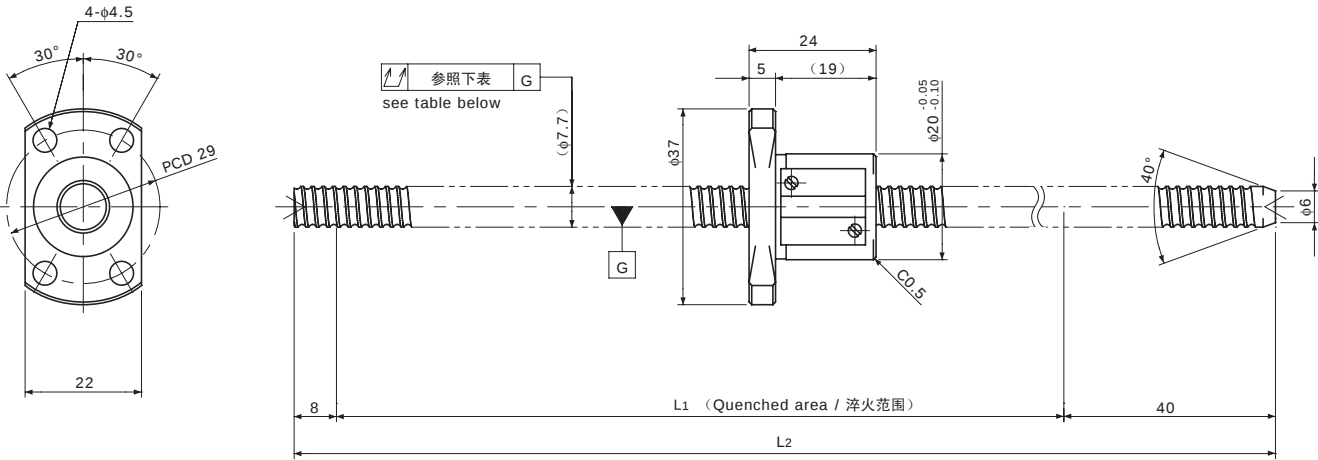
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SSR0801-400C7	335	Ct7	352	400	±0.10	0.05	0.120	~0.020	—	630	1250
SSR0801-400C10	335	Ct10	352	400	±0.50	0.21	0.240	~0.050			

Note)Please designate end-journal profile with your sketch. 注)轴端的追加加工请结合图纸进行指示。

Standard products in stock SSR series
标准库存品 SSR系列

SSR0802 | Stainless 不锈钢
Shaft dia.(轴径)φ8 Lead(导程)2mm | Ct7&Ct10 |



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ1.5875
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ6.6
Number of circuit 循环数	3.7×1
Shaft,Nut material 轴、螺母材质	SUS440C
Surface hardness 螺纹部表面硬度	HRC55~ (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

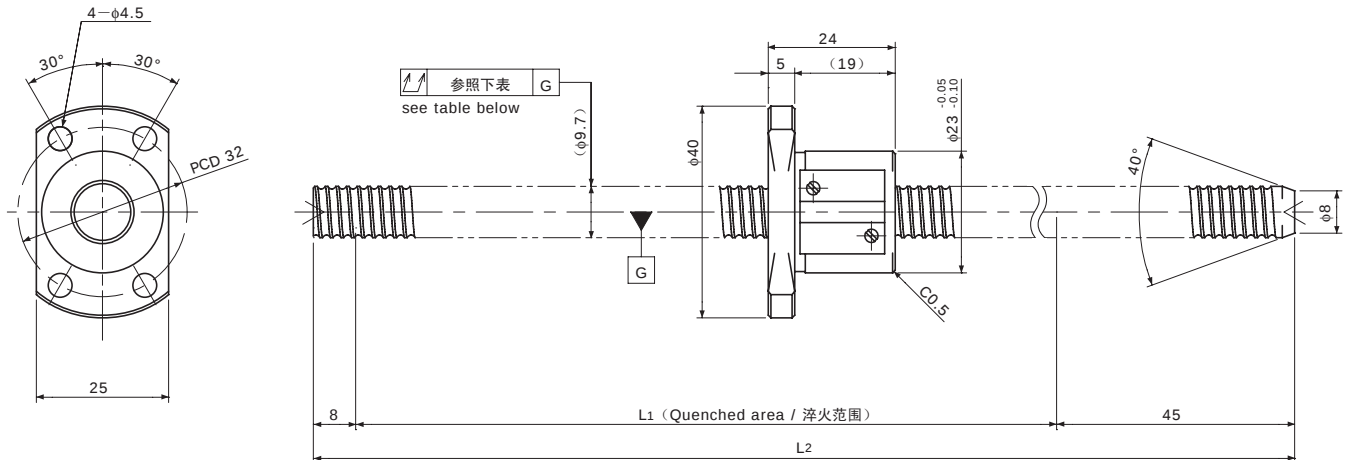
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SSR0802-400C7	325	Ct7	352	400	±0.10	0.05	0.120	~0.020	—	1950	3100
SSR0802-400C10	325	Ct10	352	400	±0.50	0.21	0.240	~0.050			

Note)Please designate end-journal profile with your sketch. 注)轴端的追加加工请结合图纸进行指示。

Standard products in stock SSR series
标准库存品 SSR系列

SSR1002 | Stainless 不锈钢
Shaft dia.(轴径)φ10 Lead(导程)2mm | Ct7&Ct10 |



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ1.5875
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ8.6
Number of circuit 循环数	3.7×1
Shaft,Nut material 轴、螺母材质	SUS440C
Surface hardness 螺纹部表面硬度	HRC55~ (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度		Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SSR1002-400C7	320	Ct7	347	400	±0.10	0.05	0.080	~0.020	—	2200	4000
SSR1002-400C10	320	Ct10	347	400	±0.50	0.21	0.160	~0.050			

Note)Please designate end-journal profile with your sketch. 注)轴端的追加加工请结合图纸进行指示。

SRT/SSRT系列 台阶型冷轧滚珠丝杠标准库存品

SRT/SSRT series

Standardized Rolled Ball Screws with Integrated end-journal

由于加工上的关系,传统的冷轧滚珠丝杠在加工时需要缩小轴端直径.但通过采用本公司的特殊技术,可以像切削加工品一样,将单侧(固定侧)设定得比滚珠丝杠部大。

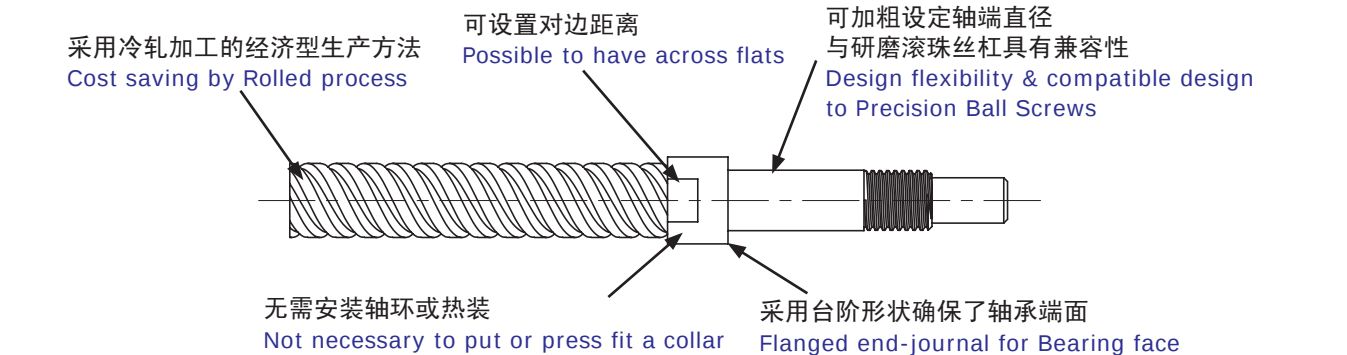
For production reason, Rolled Ball Screws are normally necessary to have smaller end-journal, but as KSS have adopted special technology, it enables fixed end-journal bigger than Shaft diameter alike solid Ball Screws. This technology enables stable and more flexible on end-journal design.

●特点

- 轴端直径可进行加粗设计,因此可使用台阶形或具有通用性的轴承。
- 与精密滚珠丝杠(切削加工品)的标准轴端形状具有兼容性。
- 与插入轴环及热装相比,稳定性更高。
- 由于不加工轴端而进行库存管理,提高了设计自由度。
- 也可提供具有防锈功能的不锈钢滚珠丝杠。

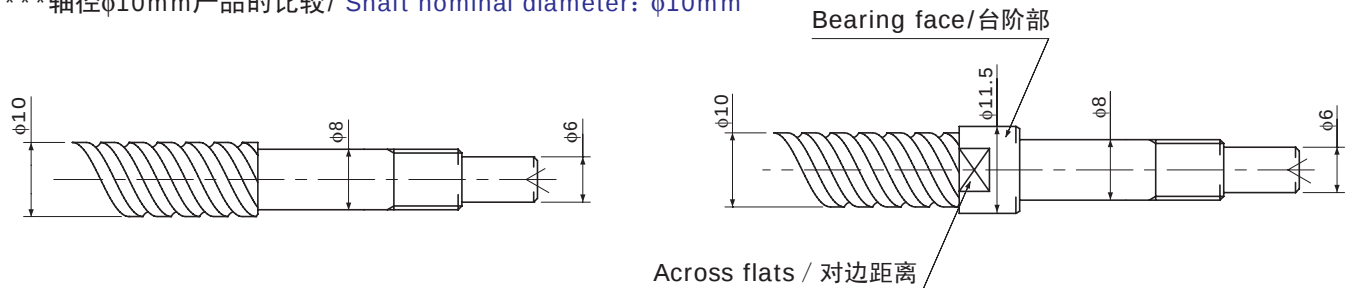
●Features

- Design flexibility and wide use of Bearings on end-journal.
- Compatible end-journal to Precision Ball Screws.
- No need to insert or press fit collar as Bearing shoulder.
- Quick delivery due to unfinished end-journal stock.
- Stainless Rolled Ball Screws are also available.



●与传统产品的比较 Comparison with current model

***轴径φ10mm产品的比较/ Shaft nominal diameter: φ10mm



传统产品的轴端形状 / Current model design

新产品的轴端形状 / New model design

●丝杠轴公称外径与导程的组合 Combination of Shaft nominal dia. & Lead

Unit(单位): mm

Lead 导程	1	2	2.5	4	5	6	8	10	12	15	20
4	A281	A282									
5				A283							
6	A284 A301	A285				A286		A287			
8	A288 A302	A289 A303	A290		A291		A292		A293		
10		A294 A304			A295			A296		A297	A298
12		A299						A300			

注1)用黄色标示的型号可提供不锈钢滚珠丝杠。
注2)表中的数字表示产品刊载页码。

Note 1)Yellow cells are available for Stainless Shaft and Nut.
Note 2)The numbers in a table :showing a page in this catalogue

●精度等级和轴向间隙

SRT/SSRT系列(台阶型冷轧/台阶型不锈钢冷轧滚珠丝杠标准库存品)的精度等级为Ct7或Ct10(JIS B-1192)。轴向间隙根据精度等级不同备有0.020mm以下(Ct7)及0.050mm以下(Ct10)两种。

●Accuracy Grade & Axial play

The grade of SRT/SSRT series (Standardized Rolled & Stainless Rolled Ball Screws with Integrated end-journal) are Ct7 or Ct10(JIS B-1192). According to accuracy grade, Axial play 0.020mm or less (Ct7) and 0.050mm or less(Ct10) are in stock.

●材质和表面硬度

SRT/SSRT系列(台阶型冷轧/台阶型不锈钢冷轧滚珠丝杠标准库存品)的材质和表面硬度如下所示。

●Material & Surface hardness

The material and hardness of SRT/SSRT series (Standardized Rolled & Stainless Rolled Ball Screws with Integrated end-journal) are as follows.

Products 产品类别	Material of thread area 滚珠丝杠部材质	Heat treatment 热处理	Surface hardness 滚珠丝杠部的表面硬度
Rolled Ball Screws (SRT series) 普通冷轧 (SRT系列)	Shaft/丝杠轴: SCM415	Carburizing and Quenching 渗碳淬火	HRC58 or more HRC58以上
	Nut/螺母: SCM415		
Stainless Rolled Ball Screws (SSRT series) 不锈钢冷轧 (SSRT系列)	Shaft/丝杠轴: SUS440C	Induction hardening 高频淬火	HRC55 or more HRC55以上
	Nut/螺母: SUS440C	Vacuum hardening 真空淬火	

●润滑

为了防锈,未对轴端进行加工的SRT/SSRT系列(台阶型冷轧/台阶型不锈钢冷轧滚珠丝杠标准库存品)产品均涂抹有防锈油。由于防锈油不具备润滑性,因此在使用前请另行涂抹润滑剂。如无特殊指定,建议使用KSS原装润滑油脂(MSG No.2)。

●Lubrication

SRT/SSRT series (Standardized Rolled & Stainless Rolled Ball Screws with Integrated end-journal) will be supplied with anti-rust oil. This oil is not lubricant, when Ball Screw operates, lubricant should be applied. If there is no specific instruction, KSS would recommend our original Grease (MSG No.2) as standard lubricant. Please feel free to contact us.

●公称型号的构成 Model number notation

SRT 04 01 — 086 R 126 C7 B 1 X

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

①系列符号

SRT : 台阶型冷轧滚珠丝杠

SSRT : 台阶型不锈钢冷轧滚珠丝杠

②丝杠轴公称外径(mm)

③导程(mm)

④螺纹部长度(mm)

(追加加工后以1mm为单位指定)

⑤螺纹旋向(R=右旋)

⑥丝杠轴总长(mm)

(以1mm为单位指定)

⑦精度等级(C7或C10)

⑧轴端加工类型

(参照图A-24 : A-型、B-型、C-型)

⑨涂抹的油脂

0: KSS推荐的润滑脂(MSG No.2)

1: 防锈油(Non Ruster PZ2)

2: Multemp PS2

3: 其他

⑩螺母法兰朝向(参照图A-25)

①Rolled Ball Screws Series No.

SRT : Rolled Ball Screws with Integrated end-journal

SSRT : Stainless Rolled Ball Screws with Integrated end-journal

②Screw Shaft nominal diameter(mm)

③Lead(mm)

④Screw thread length(mm)

(Specify in 1mm units after end-journal machining)

⑤Thread direction(R=Right-hand)

⑥Screw Shaft total length(mm)

(Specify in 1mm units)

⑦Accuracy grade(C7 or C10)

⑧Shaft end-journal profile

(Refer to Fig. A-24 below : A-type,B-type,C-type)

⑨Anti-rust oil or Lubricant

0: KSS grease (MSG No.2)

1: Anti-rust oil(Non Ruster PZ2)

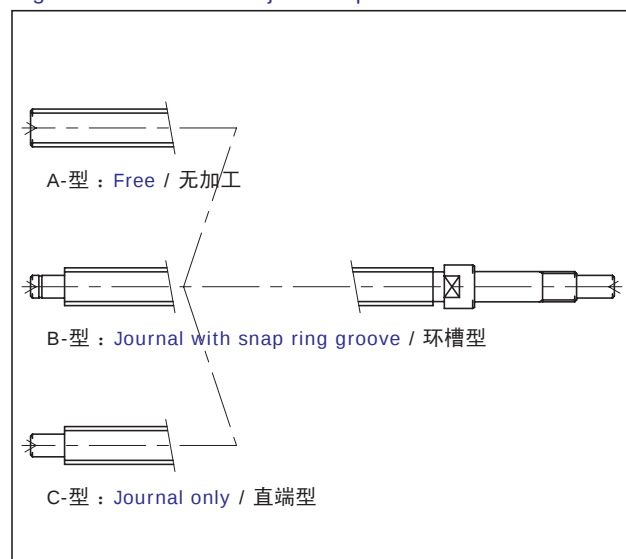
2: Multemp PS2 grease

3: Other

⑩Nut Flange direction (Refer to Fig. A-25 below)

图A-24 : 轴端加工类型

Fig. A-24 : Shaft end-journal profile



注1)关于轴端的详细尺寸,请参照各页。

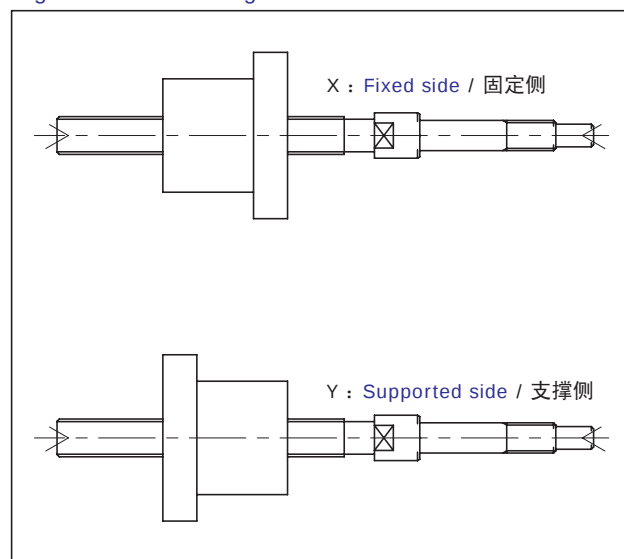
注2)本公司不进行螺母的追加加工。

注3)产品规格若有变更,恕不另行通告。

注4)若需要非标准的轴端形状(A、B、C),请垂询本公司。

图A-25 : 螺母法兰朝向

Fig. A-25 : Nut Flange direction



Note 1)The detail of end-journal dimension for each size is shown from next page.

Note 2)KSS does not make additional Nut machining.

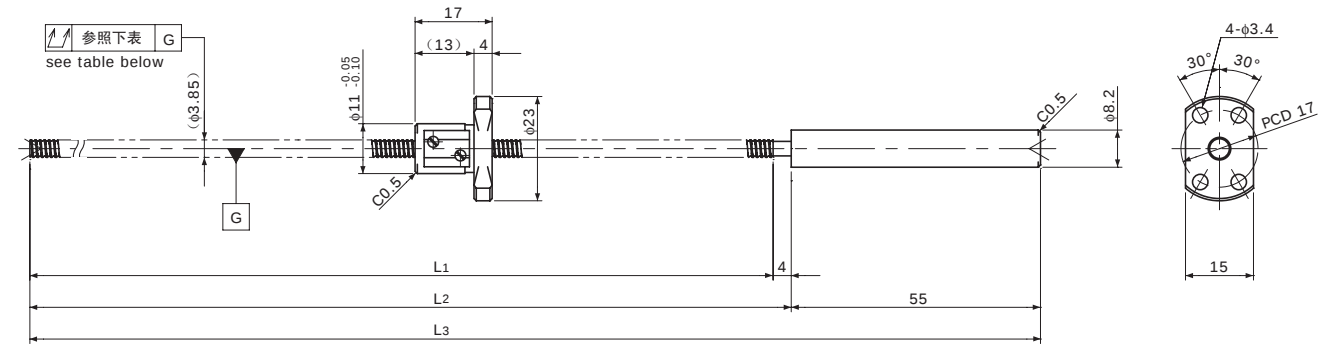
Note 3)The specification is subject to change without notice.

Note 4)If the other configuration except (A,B,C)is requested, please contact KSS.

Standard products in stock SRT series
标准库存品 SRT系列

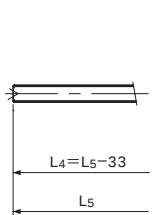
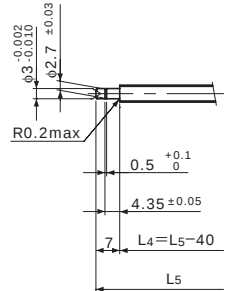
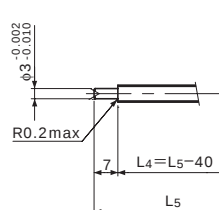
SRT0401

Shaft dia.(轴径) $\phi 4$ Lead(导程) 1mm Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications		主要技术参数	End-journal profile 轴端加工形状			Supported-side 支撑侧	Fixed-side 固定侧
Ball size 钢珠直径		φ0.8	A型		B型	C型	
Number of thread 螺纹条数		1					
Thread direction 螺纹旋向		Right 右旋					
Shaft root dia. 丝杠轴底径		φ3.3					
Number of circuit 循环数		3.7×1					
Material 材质	Shaft 轴	SCM415H+SUS303					
	Nut 螺母	SCM415H					
Surface hardness 螺纹部表面硬度		HRC58~ (Thread area)					
Anti-rust treatment 防锈处理		Anti-rust oil 防锈油					

A型		B型		C型		
						

Unit(单位): mm

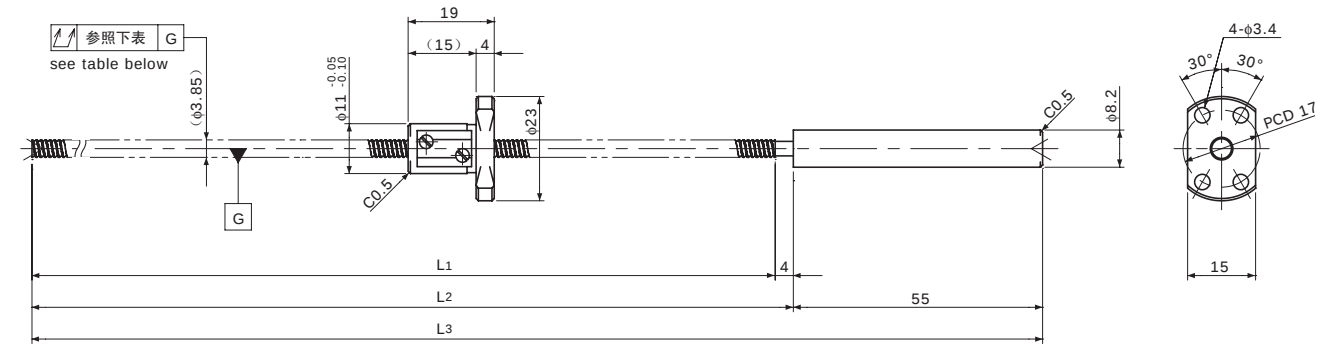
Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT0401-096R155C7	75	Ct7	96	100	155	±0.03	0.05	0.080	~0.020	—	560	790
SRT0401-216R275C7	195	Ct7	216	220	275	±0.07	0.05	0.120				
SRT0401-096R155C10	75	Ct10	96	100	155	±0.13	0.21	0.160	~0.050			
SRT0401-216R275C10	195	Ct10	216	220	275	±0.30	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

Standard products in stock SRT series
标准库存品 SRT系列

SRT0402

Shaft dia.(轴径) $\phi 4$ Lead(导程) 2mm Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数			End-journal profile 轴端加工形状		Supported-side 支撑侧	Fixed-side 固定侧		
Ball size 钢珠直径	$\phi 0.8$		A型	B型	C型			
Number of thread 螺纹条数	1							
Thread direction 螺纹旋向	Right 右旋							
Shaft root dia. 丝杠轴底径	$\phi 3.3$							
Number of circuit 循环数	2.7×1							
Material 材质	Shaft 轴	SCM415H+SUS303						
	Nut 螺母	SCM415H						
Surface hardness 螺纹部表面硬度	HRC58~(Thread area)							
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油							
			L4: Thread length after end-journal machining. 追加加工后的螺纹部长度 L5: Total length after end-journal machining. 追加加工后的总长					
			Support-unit Recommendation 推荐的支架组件 Supported-side 支撑侧 : MSU-4CS/4GS, SUP03-S Fixed-side 固定侧 : MSU-4C/4G, EK4					

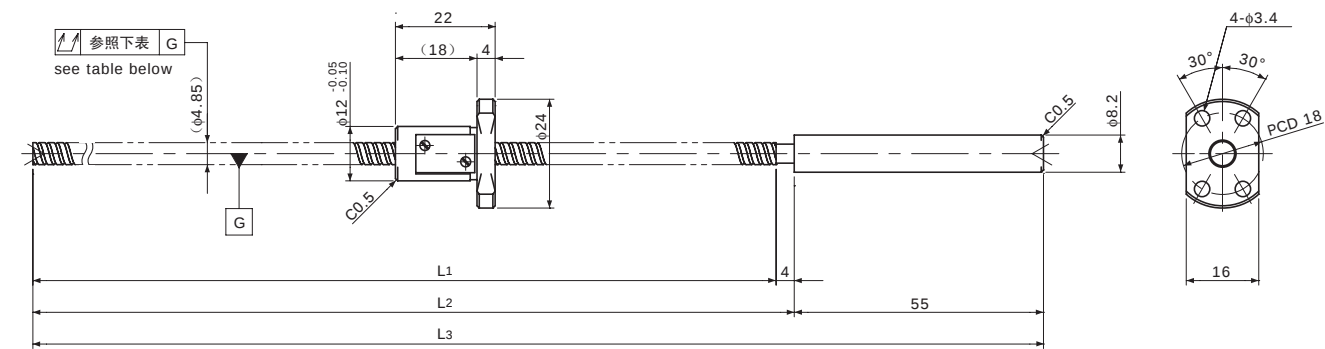
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT0402-096R155C7	75	Ct7	96	100	155	± 0.03	0.05	0.080	~0.020	—	420	570
SRT0402-216R275C7	195	Ct7	216	220	275	± 0.07	0.05	0.120				
SRT0402-096R155C10	75	Ct10	96	100	155	± 0.13	0.21	0.160	~0.050			
SRT0402-216R275C10	195	Ct10	216	220	275	± 0.30	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

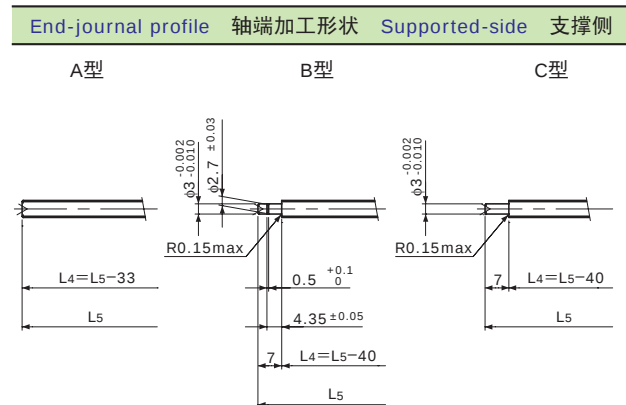
Standard products in stock SRT series
标准库存品 SRT系列

SRT0504 | Shaft dia.(轴径)φ5 Lead(导程)4mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ0.8	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ4.3	
Number of circuit 循环数	2.7×1	
Material 材质	Shaft 轴	SCM415H+SUS303
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~(Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	



L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件		Supported-side 支撑侧	Fixed-side 固定侧
		MSU-4CS/4GS, SUP03-S	MSU-4C/4G, EK4

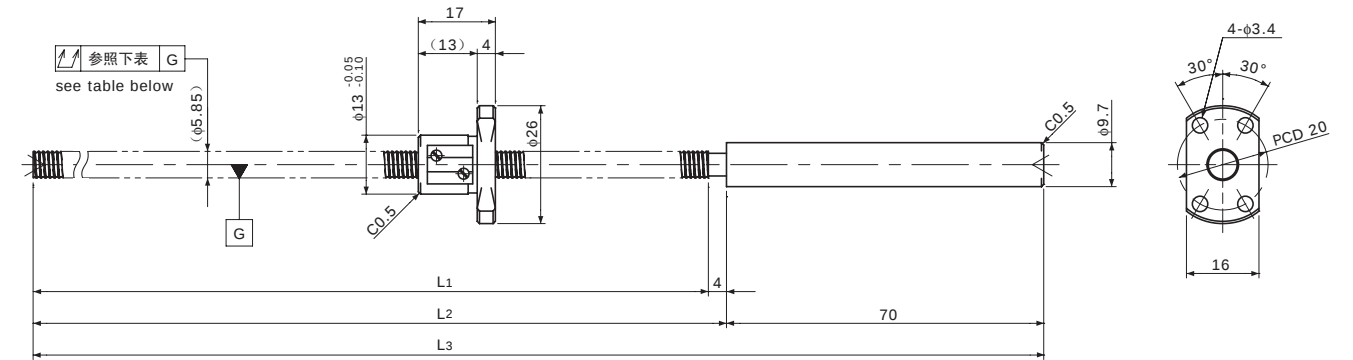
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT0504-096R155C7	70	Ct7	96	100	155	±0.03	0.05	0.080	~0.020	—	470	720
SRT0504-216R275C7	190	Ct7	216	220	275	±0.07	0.05	0.120				
SRT0504-096R155C10	70	Ct10	96	100	155	±0.13	0.21	0.160	~0.050			
SRT0504-216R275C10	190	Ct10	216	220	275	±0.30	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

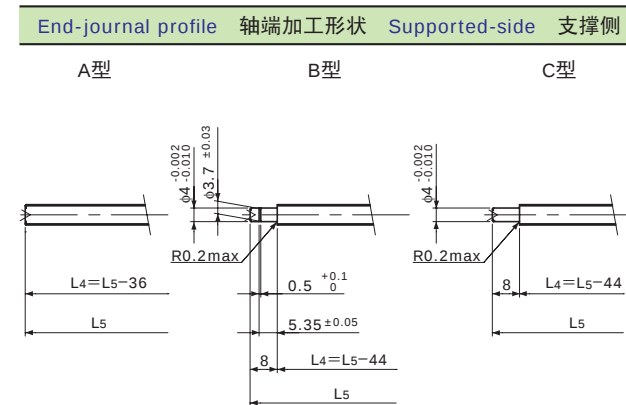
Standard products in stock SRT series
标准库存品 SRT系列

SRT0601 | Shaft dia.(轴径)φ6 Lead(导程)1mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ0.8	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ5.3	
Number of circuit 循环数	3.7×1	
Material 材质	Shaft 轴	SCM415H+SUS303
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~(Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	



L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件		Supported-side 支撑侧	Fixed-side 固定侧
		MSU-5CS/5GS, SUP04-S	MSU-5C/5G, EK5

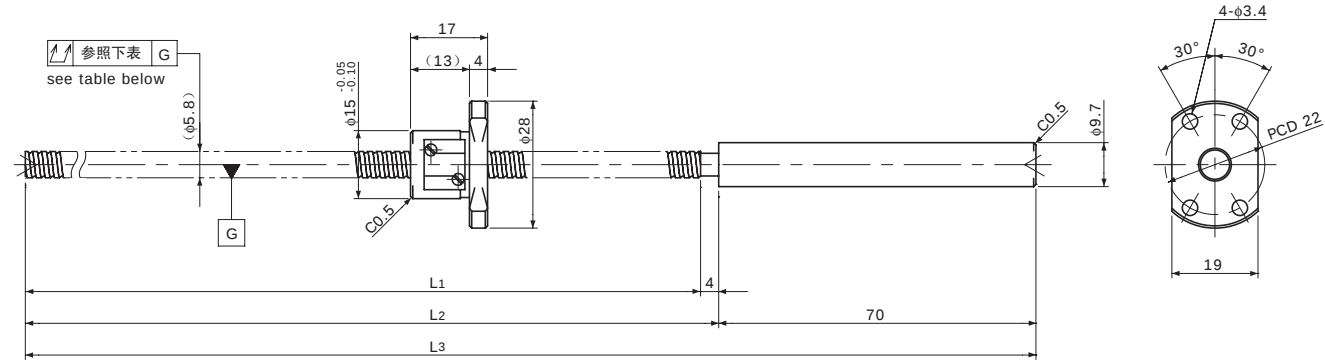
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT0601-146R220C7	125	Ct7	146	150	220	±0.05	0.05	0.080	~0.020	—	680	1200
SRT0601-261R335C7	240	Ct7	261	265	335	±0.09	0.05	0.120				
SRT0601-146R220C10	125	Ct10	146	150	220	±0.20	0.21	0.160	~0.050			
SRT0601-261R335C10	240	Ct10	261	265	335	±0.36	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

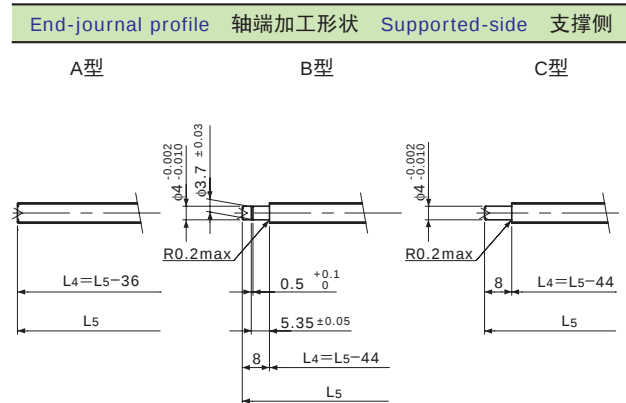
Standard products in stock SRT series
标准库存品 SRT系列

SRT0602 | Shaft dia.(轴径) $\phi 6$ Lead(导程)2mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	$\phi 1.0$	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	$\phi 5.1$	
Number of circuit 循环数	2.7×1	
Material 材质	Shaft 轴	SCM415H+SUS303
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~ (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	



L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件		Supported-side 支撑侧	Fixed-side 固定侧
		MSU-5CS/5GS, SUP04-S	MSU-5C/5G, EK5

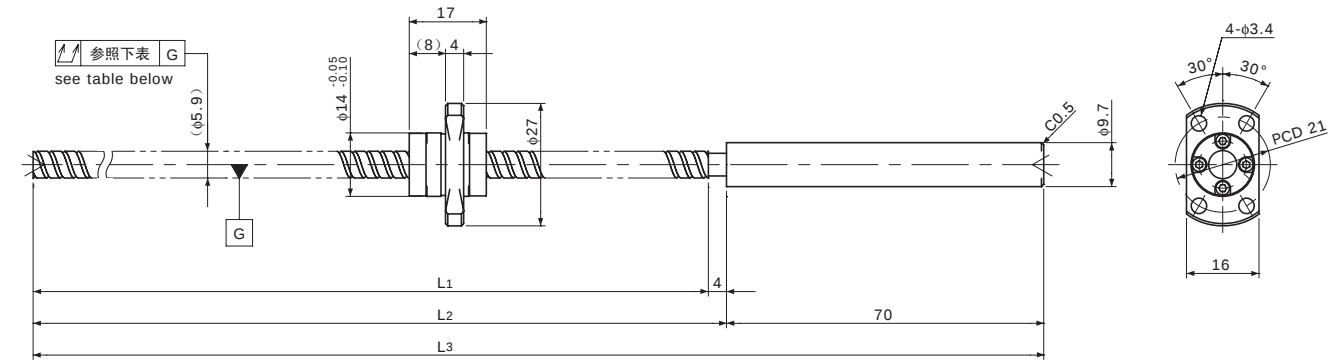
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT0602-146R220C7	125	Ct7	146	150	220	±0.05	0.05	0.080	~0.020	—	750	1200
SRT0602-261R335C7	240	Ct7	261	265	335	±0.09	0.05	0.120				
SRT0602-146R220C10	125	Ct10	146	150	220	±0.20	0.21	0.160	~0.050			
SRT0602-261R335C10	240	Ct10	261	265	335	±0.36	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

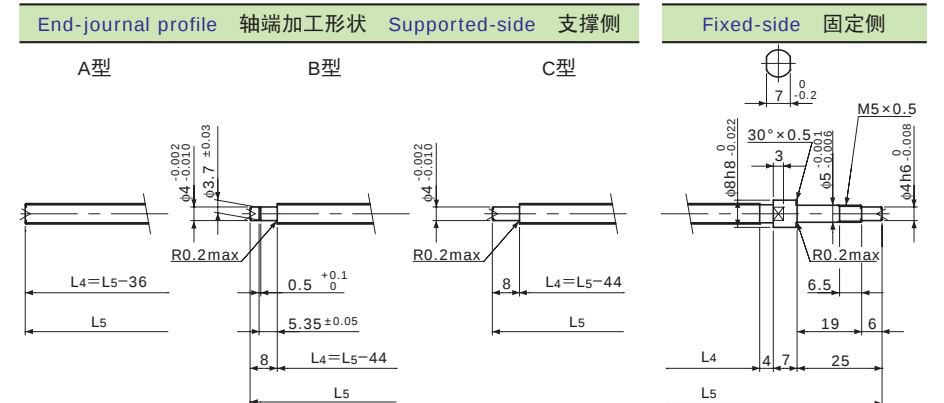
Standard products in stock SRT series
标准库存品 SRT系列

SRT0606 | Shaft dia.(轴径) $\phi 6$ Lead(导程)6mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	$\phi 1.0$	
Number of thread 螺纹条数	2	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	$\phi 5.2$	
Number of circuit 循环数	1.6×2	
Material 材质	Shaft 轴	SCM415H+SUS303
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~ (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	



L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件		Supported-side 支撑侧	Fixed-side 固定侧
		MSU-5CS/5GS, SUP04-S	MSU-5C/5G, EK5

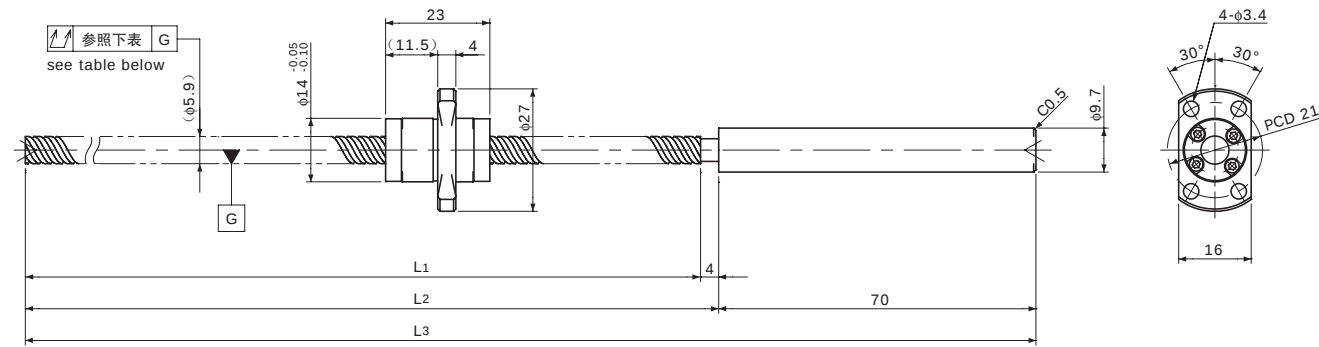
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT0606-146R220C7	125	Ct7	146	150	220	±0.05	0.05	0.080	~0.020	—	870	1450
SRT0606-261R335C7	240	Ct7	261	265	335	±0.09	0.05	0.120				
SRT0606-146R220C10	125	Ct10	146	150	220	±0.20	0.21	0.160	~0.050			
SRT0606-261R335C10	240	Ct10	261	265	335	±0.36	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

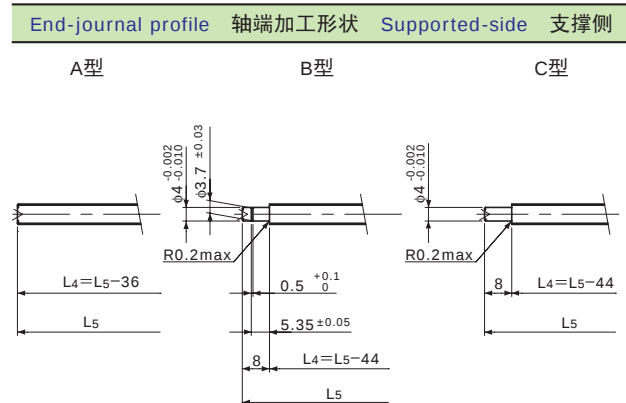
Standard products in stock SRT series
标准库存品 SRT系列

SRT0610 | Shaft dia.(轴径) $\phi 6$ Lead(导程)10mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	$\phi 1.2$	
Number of thread 螺纹条数	2	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	$\phi 5.0$	
Number of circuit 循环数	1.2 $\times$ 2	
Material 材质	Shaft 轴	SCM415H+SUS303
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~ (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	



L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件		Supported-side 支撑侧	Fixed-side 固定侧
		MSU-5CS/5GS, SUP04-S	MSU-5C/5G, EK5

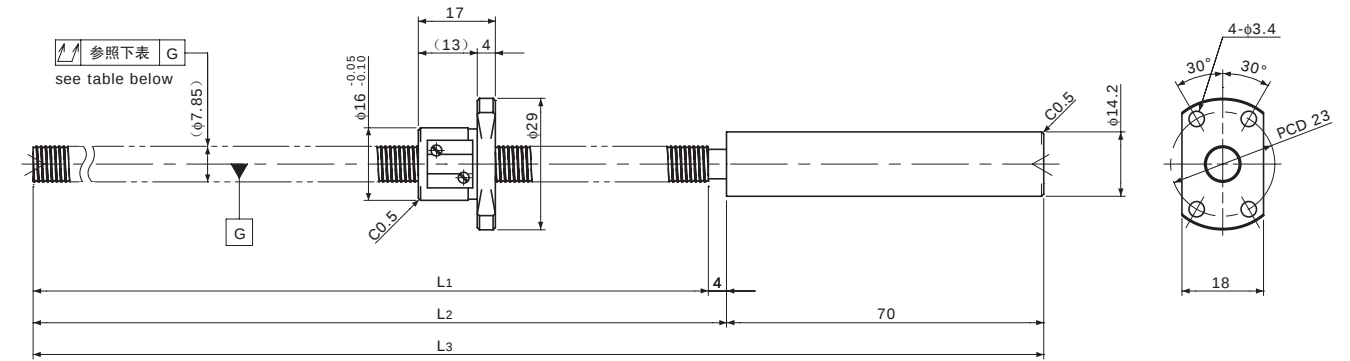
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT0610-146R220C7	120	Ct7	146	150	220	±0.05	0.05	0.080	~0.020	—	950	1600
SRT0610-261R335C7	235	Ct7	261	265	335	±0.09	0.05	0.120				
SRT0610-146R220C10	120	Ct10	146	150	220	±0.20	0.21	0.160	~0.050			
SRT0610-261R335C10	235	Ct10	261	265	335	±0.36	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

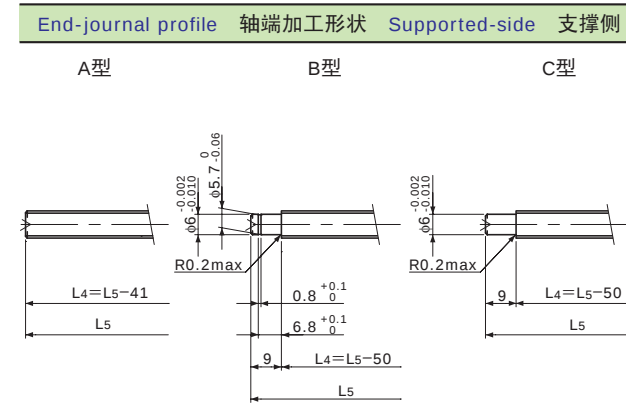
Standard products in stock SRT series
标准库存品 SRT系列

SRT0801 | Shaft dia.(轴径) $\phi 8$ Lead(导程)1mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	$\phi 0.8$	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	$\phi 7.3$	
Number of circuit 循环数	3.7 $\times$ 1	
Material 材质	Shaft 轴	SCM415H+SUS303
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~ (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	



L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件		Supported-side 支撑侧	Fixed-side 固定侧
		MSU-6CS/6GS, EF6	MSU-6C/6G, EK6

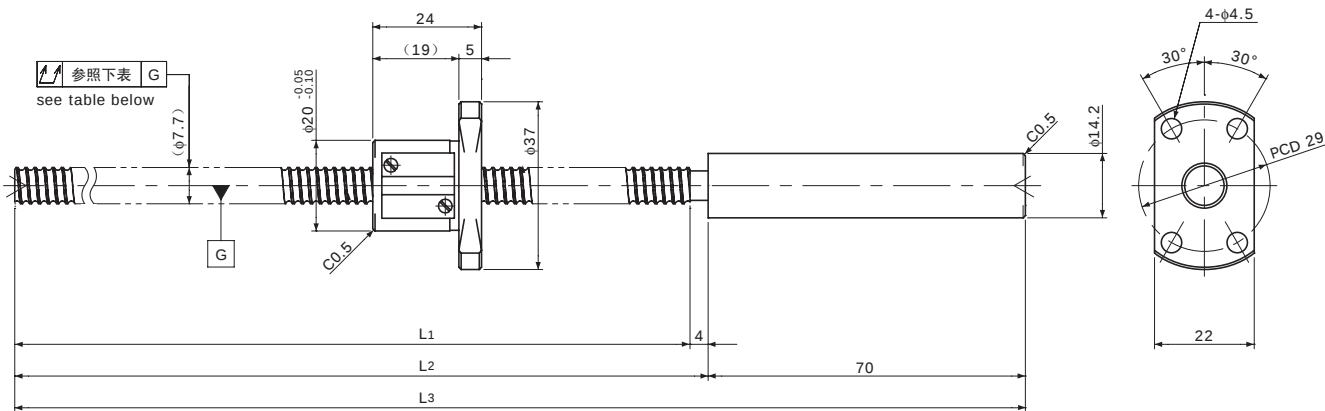
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT0801-196R270C7	175	Ct7	196	200	270	±0.06	0.05	0.080	~0.020	—	780	1650
SRT0801-356R430C7	335	Ct7	356	360	430	±0.12	0.05	0.120				
SRT0801-196R270C10	175	Ct10	196	200	270	±0.27	0.21	0.160	~0.050			
SRT0801-356R430C10	335	Ct10	356	360	430	±0.49	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

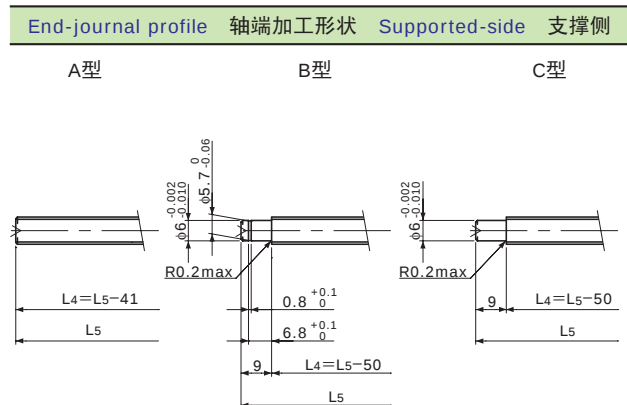
Standard products in stock SRT series
标准库存品 SRT系列

SRT0802 | Shaft dia.(轴径)φ8 Lead(导程)2mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ1.5875
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ6.6
Number of circuit 循环数	3.7×1
Material 材质	Shaft 轴 SCM415H+SUS303 Nut 螺母 SCM415H
Surface hardness 螺纹部表面硬度	HRC58~ (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油



L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧	Fixed-side 固定侧
	MSU-6CS/6GS, EF6	MSU-6C/6G, EK6

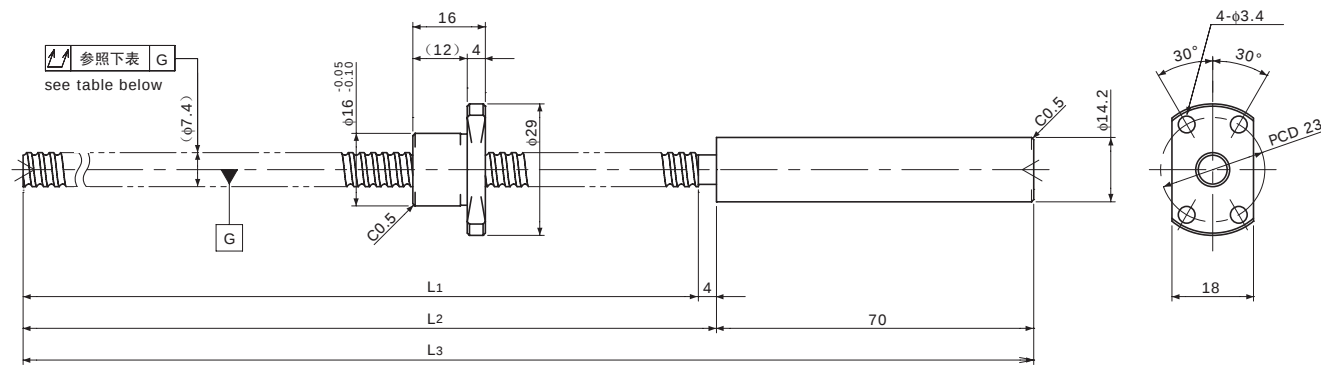
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT0802-196R270C7	170	Ct7	196	200	270	±0.06	0.05	0.080	~0.020	—	2400	4100
SRT0802-356R430C7	330	Ct7	356	360	430	±0.12	0.05	0.120				
SRT0802-196R270C10	170	Ct10	196	200	270	±0.27	0.21	0.160	~0.050			
SRT0802-356R430C10	330	Ct10	356	360	430	±0.49	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

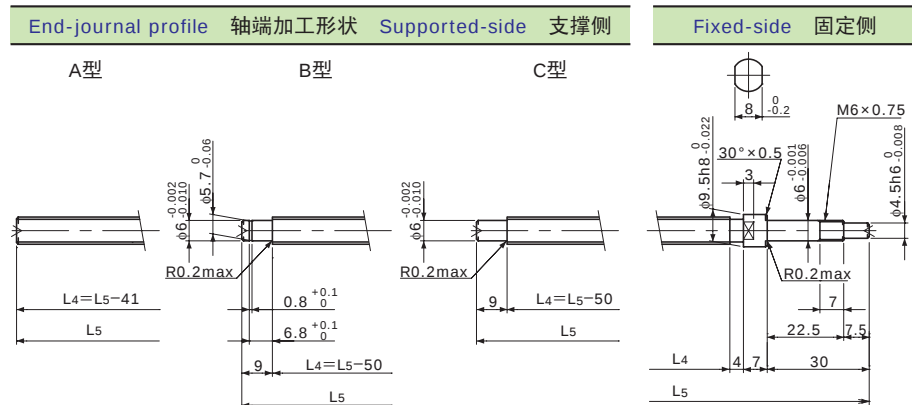
Standard products in stock SRT series
标准库存品 SRT系列

SRT0802.5 | Shaft dia.(轴径)φ8 Lead(导程)2.5mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数	
Ball size 钢珠直径	φ1.5875
Number of thread 螺纹条数	1
Thread direction 螺纹旋向	Right 右旋
Shaft root dia. 丝杠轴底径	φ6.3
Number of circuit 循环数	2.7×1
Material 材质	Shaft 轴 SCM415H+SUS303 Nut 螺母 SCM415H
Surface hardness 螺纹部表面硬度	HRC58~ (Thread area)
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油



L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧	Fixed-side 固定侧
	MSU-6CS/6GS, EF6	MSU-6C/6G, EK6

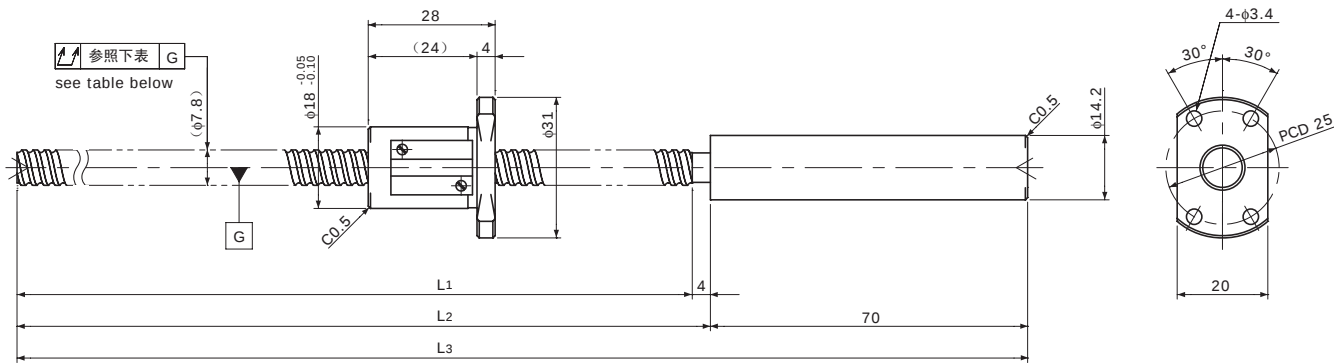
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT0802.5-196R270C7	180	Ct7	196	200	270	±0.06	0.05	0.080	~0.020	—	1850	3000
SRT0802.5-356R430C7	340	Ct7	356	360	430	±0.12	0.05	0.120				
SRT0802.5-196R270C10	180	Ct10	196	200	270	±0.27	0.21	0.160	~0.050			
SRT0802.5-356R430C10	340	Ct10	356	360	430	±0.49	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

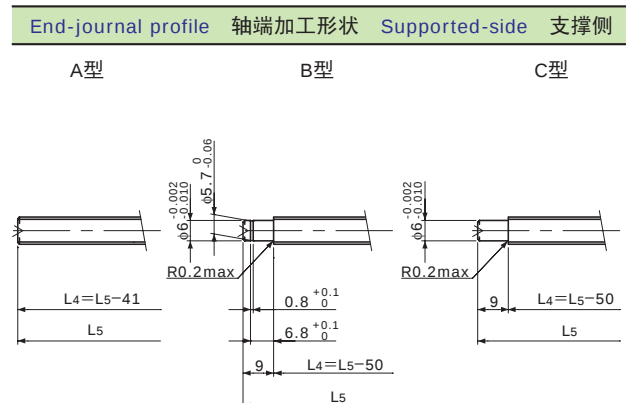
Standard products in stock SRT series
标准库存品 SRT系列

SRT0805 | Shaft dia.(轴径)φ8 Lead(导程)5mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ1.5875	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ6.6	
Number of circuit 循环数	2.7×1	
Material 材质	Shaft 轴	SCM415H+SUS303
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~(Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	



L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件		Supported-side 支撑侧	Fixed-side 固定侧
		MSU-6CS/6GS, EF6	MSU-6C/6G, EK6

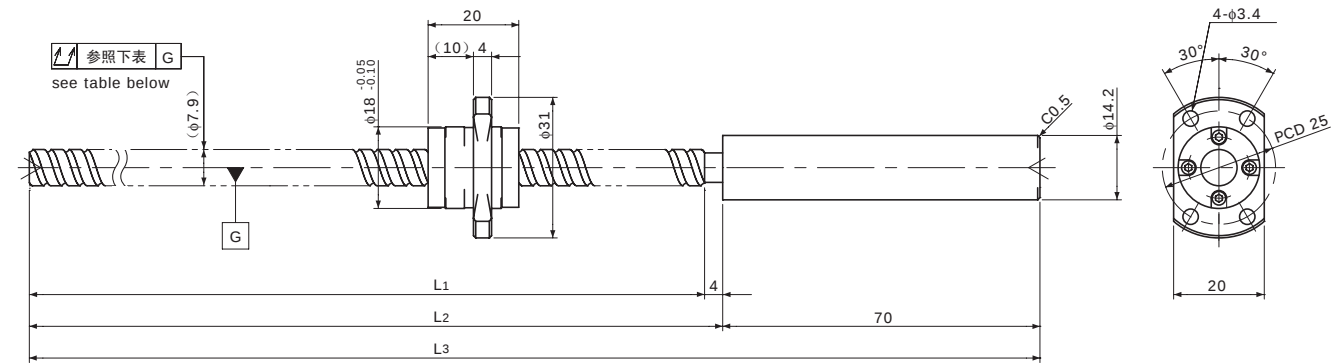
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT0805-196R270C7	165	Ct7	196	200	270	±0.06	0.05	0.080	~0.020	—	1850	3000
SRT0805-356R430C7	325	Ct7	356	360	430	±0.12	0.05	0.120				
SRT0805-196R270C10	165	Ct10	196	200	270	±0.27	0.21	0.160	~0.050			
SRT0805-356R430C10	325	Ct10	356	360	430	±0.49	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

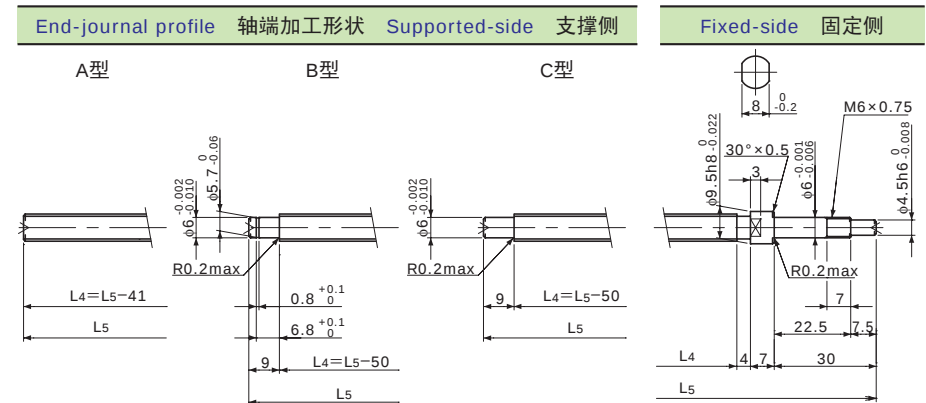
Standard products in stock SRT series
标准库存品 SRT系列

SRT0808 | Shaft dia.(轴径)φ8 Lead(导程)8mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ1.5875	
Number of thread 螺纹条数	2	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ6.7	
Number of circuit 循环数	1.6×2	
Material 材质	Shaft 轴	SCM415H+SUS303
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~(Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	



L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件		Supported-side 支撑侧	Fixed-side 固定侧
		MSU-6CS/6GS, EF6	MSU-6C/6G, EK6

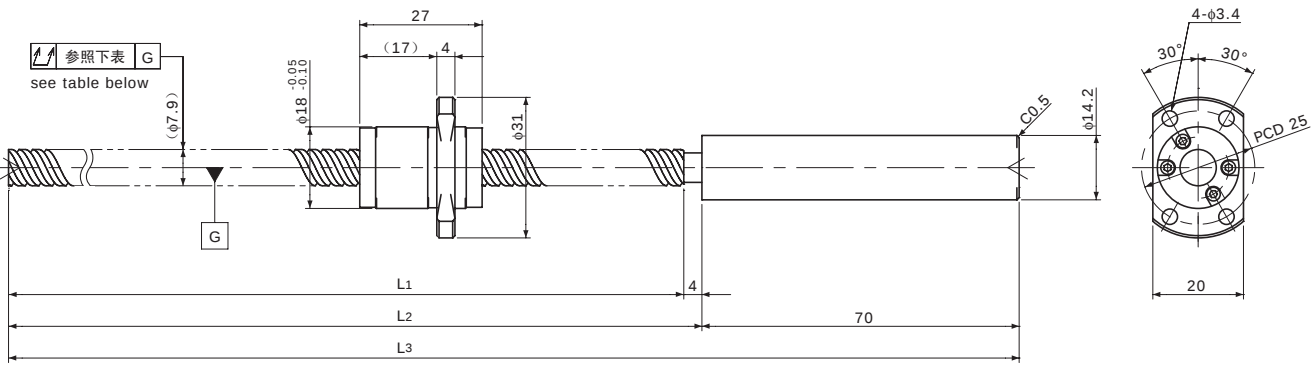
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT0808-196R270C7	175	Ct7	196	200	270	±0.06	0.05	0.080	~0.020	—	2200	3800
SRT0808-356R430C7	335	Ct7	356	360	430	±0.12	0.05	0.120				
SRT0808-196R270C10	175	Ct10	196	200	270	±0.27	0.21	0.160	~0.050			
SRT0808-356R430C10	335	Ct10	356	360	430	±0.49	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

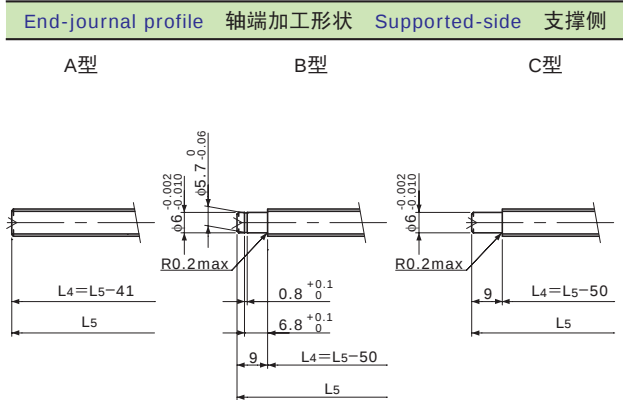
Standard products in stock SRT series
标准库存品 SRT系列

SRT0812 | Shaft dia.(轴径)φ8 Lead(导程)12mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ1.5875	
Number of thread 螺纹条数	2	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ6.7	
Number of circuit 循环数	1.6×2	
Material 材质	Shaft 轴	SCM415H+SUS303
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~ (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	



L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧	MSU-6CS/6GS, EF6
	Fixed-side 固定侧	MSU-6C/6G, EK6

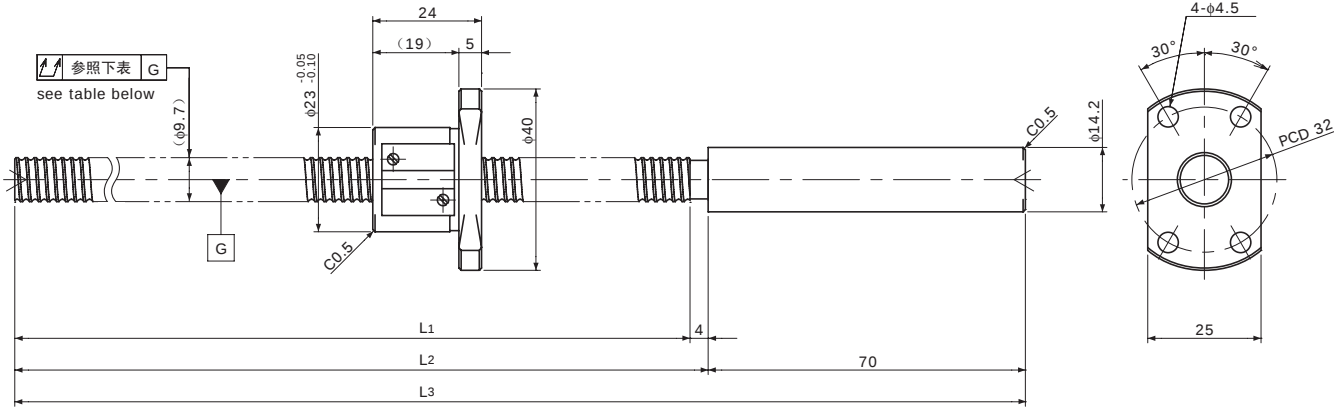
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT0812-196R270C7	165	Ct7	196	200	270	±0.06	0.05	0.080	~0.020	—	2200	4000
SRT0812-356R430C7	325	Ct7	356	360	430	±0.12	0.05	0.120				
SRT0812-196R270C10	165	Ct10	196	200	270	±0.27	0.21	0.160	~0.050			
SRT0812-356R430C10	325	Ct10	356	360	430	±0.49	0.21	0.240				

Note)Please refer to p-A279 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A279。

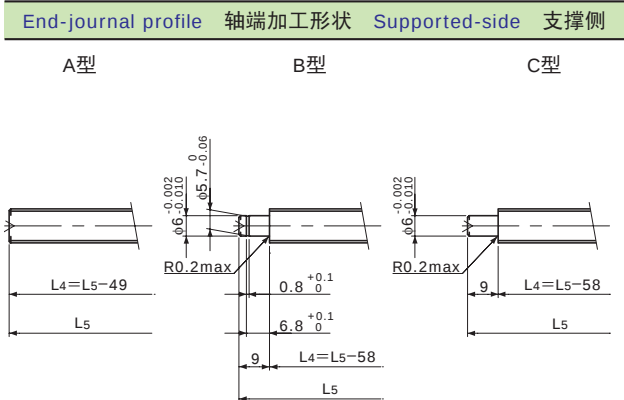
Standard products in stock SRT series
标准库存品 SRT系列

SRT1002 | Shaft dia.(轴径)φ10 Lead(导程)2mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ1.5875	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ8.6	
Number of circuit 循环数	3.7×1	
Material 材质	Shaft 轴	SCM415H+SUS303
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~ (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	



L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧	MSU-8CS/8GS, EF8
	Fixed-side 固定侧	MSU-8C/8G, EK8

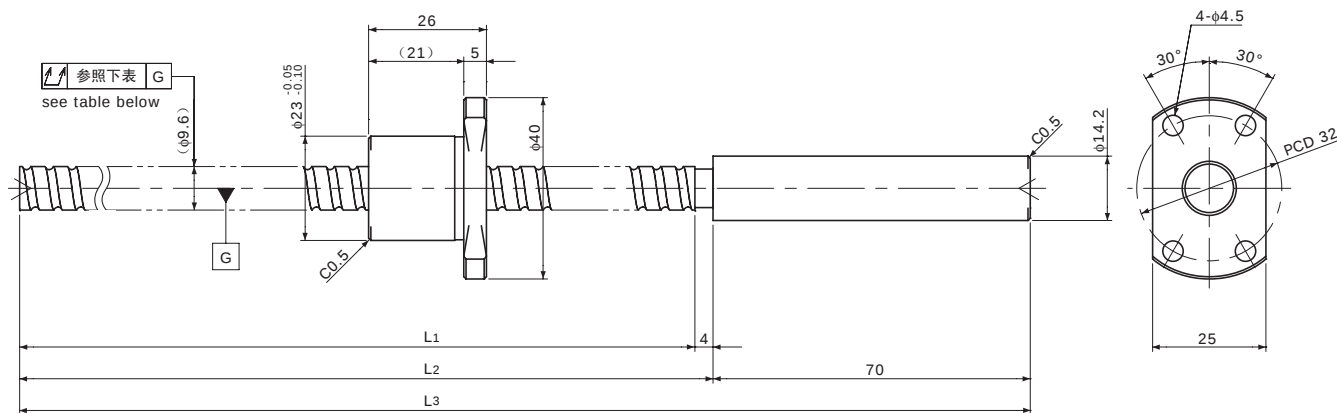
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT1002-196R270C7	170	Ct7	196	200	270	±0.06	0.05	0.080	~0.020	—	2700	5300
SRT1002-396R470C7	370	Ct7	396	400	470	±0.13	0.05	0.120				
SRT1002-196R270C10	170	Ct10	196	200	270	±0.27	0.21	0.160	~0.050			
SRT1002-396R470C10	370	Ct10	396	400	470	±0.55	0.21	0.240				

Note)Please refer to p-A279 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A279。

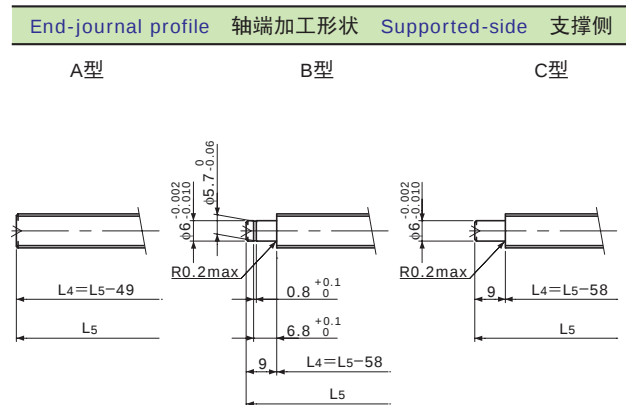
Standard products in stock SRT series
标准库存品 SRT系列

SRT1005 | Shaft dia.(轴径)φ10 Lead(导程)5mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ2.0	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ8.2	
Number of circuit 循环数	2.7×1	
Material 材质	Shaft 轴	SCM415H+SUS303
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~(Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	



L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件		Supported-side 支撑侧	Fixed-side 固定侧
		MSU-8CS/8GS, EF8	MSU-8C/8G, EK8

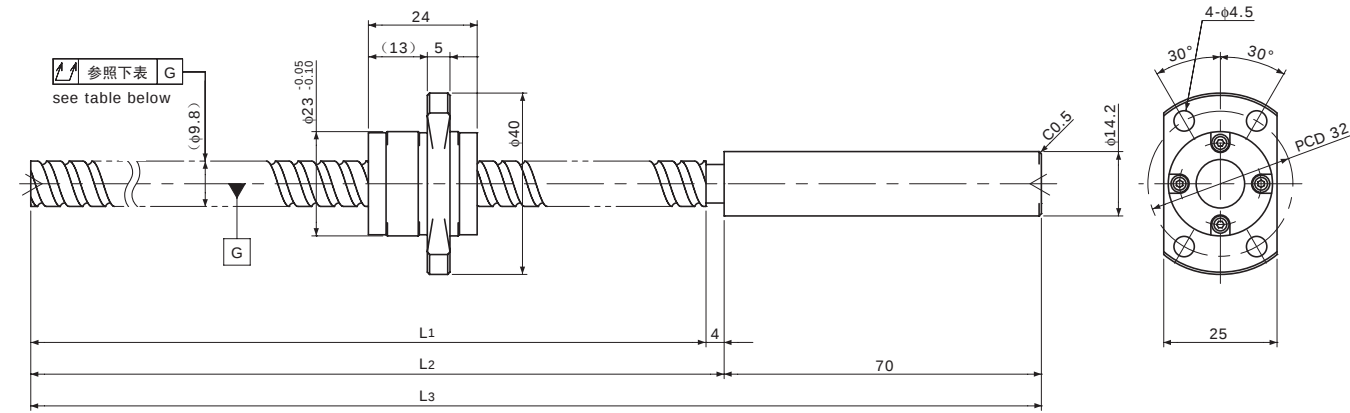
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT1005-196R270C7	170	Ct7	196	200	270	±0.06	0.05	0.080	~0.020	—	3000	5200
SRT1005-396R470C7	370	Ct7	396	400	470	±0.13	0.05	0.120				
SRT1005-196R270C10	170	Ct10	196	200	270	±0.27	0.21	0.160	~0.050			
SRT1005-396R470C10	370	Ct10	396	400	470	±0.55	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

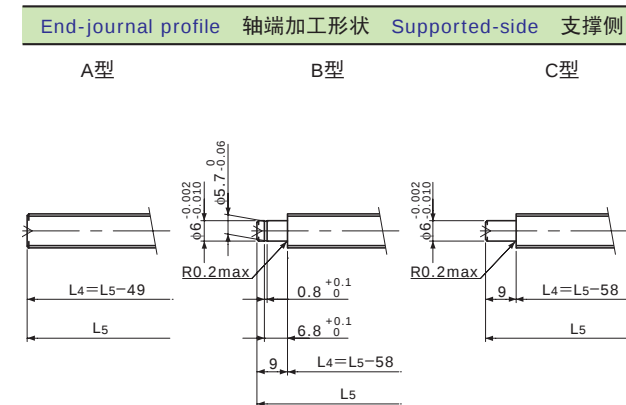
Standard products in stock SRT series
标准库存品 SRT系列

SRT1010 | Shaft dia.(轴径)φ10 Lead(导程)10mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ2.0	
Number of thread 螺纹条数	2	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ8.4	
Number of circuit 循环数	1.6×2	
Material 材质	Shaft 轴	SCM415H+SUS303
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~(Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	



L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件		Supported-side 支撑侧	Fixed-side 固定侧
		MSU-8CS/8GS, EF8	MSU-8C/8G, EK8

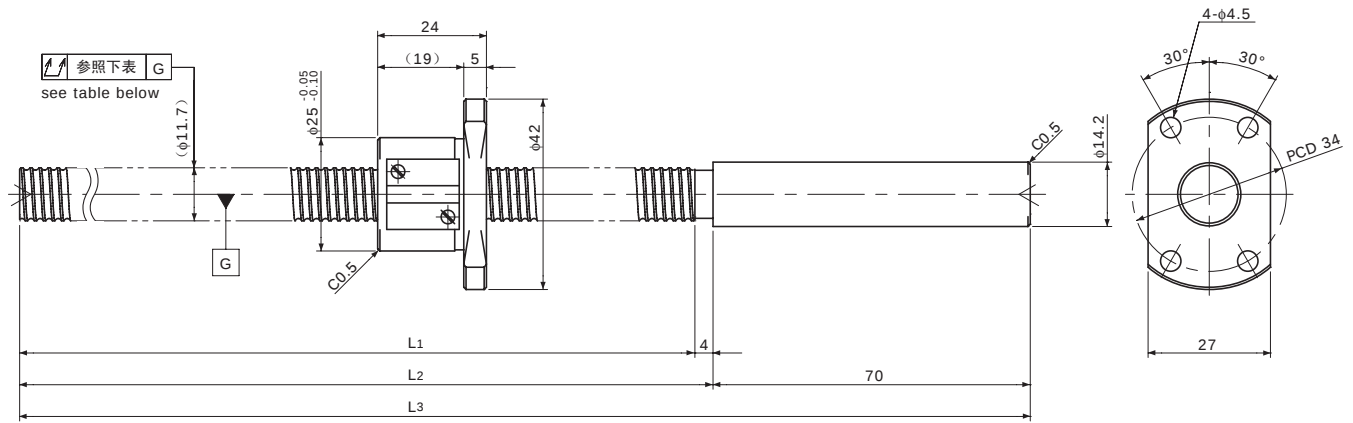
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT1010-196R270C7	170	Ct7	196	200	270	±0.06	0.05	0.080	~0.020	—	3300	5900
SRT1010-396R470C7	370	Ct7	396	400	470	±0.13	0.05	0.120				
SRT1010-196R270C10	170	Ct10	196	200	270	±0.27	0.21	0.160	~0.050			
SRT1010-396R470C10	370	Ct10	396	400	470	±0.55	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

Standard products in stock SRT series
标准库存品 SRT系列

SRT1202 | Shaft dia.(轴径)φ12 Lead(导程)2mm | Ct7&Ct10



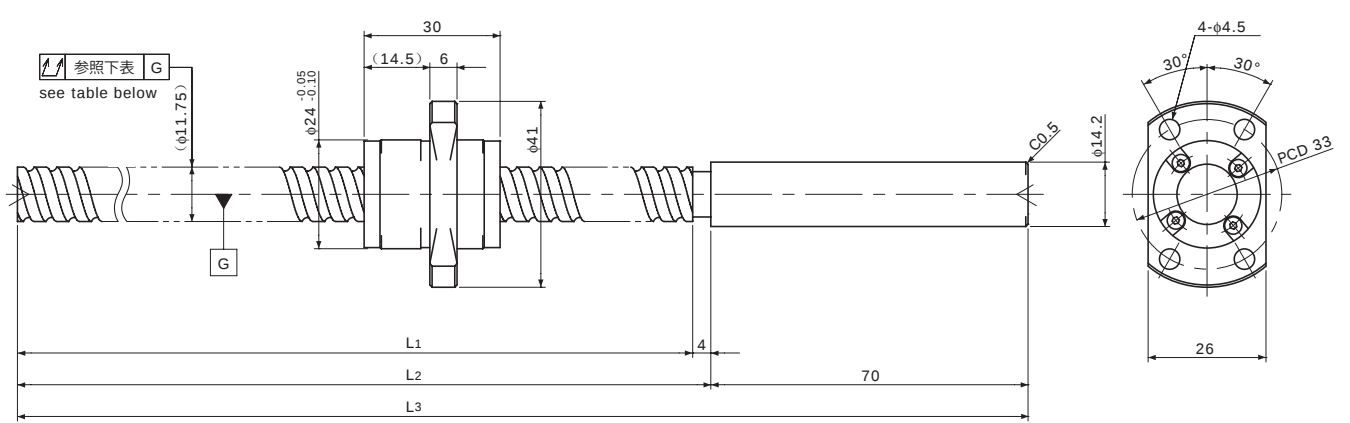
Unit(单位): mm		End-journal profile 轴端加工形状		Supported-side 支撑侧		Fixed-side 固定侧	
Ball Screw Specifications 主要技术参数		A型	B型	C型		C型	
Ball size 钢珠直径	φ1.5875						
Number of thread 螺纹条数	1						
Thread direction 螺纹旋向	Right 右旋						
Shaft root dia. 丝杠轴底径	φ10.6						
Number of circuit 循环数	3.7×1						
Material 材质	Shaft 轴 SCM415H+SUS303 Nut 螺母 SCM415H						
Surface hardness 螺纹部表面硬度	HRC58~ (Thread area)						
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油						
		L4: Thread length after end-journal machining. 追加加工后的螺纹部长度 L5: Total length after end-journal machining. 追加加工后的总长					
		Support-unit Recommendation 推荐的支架组件		Supported-side 支撑侧 : EF10 Fixed-side 固定侧 : EK10			

Unit(单位): mm												
Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT1202-196R270C7	170	Ct7	196	200	270	±0.06	0.05	0.080	~0.020	—	3000	6400
SRT1202-396R470C7	370	Ct7	396	400	470	±0.13	0.05	0.080				
SRT1202-196R270C10	170	Ct10	196	200	270	±0.27	0.21	0.160	~0.050			
SRT1202-396R470C10	370	Ct10	396	400	470	±0.55	0.21	0.160				

Note)Please refer to p-A279 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A279。

Standard products in stock SRT series
标准库存品 SRT系列

SRT1210 | Shaft dia.(轴径)φ12 Lead(导程)10mm | Ct7&Ct10



Unit(单位): mm		End-journal profile 轴端加工形状		Supported-side 支撑侧		Fixed-side 固定侧	
Ball Screw Specifications 主要技术参数		A型	B型	C型		C型	
Ball size 钢珠直径	φ2.381						
Number of thread 螺纹条数	2						
Thread direction 螺纹旋向	Right 右旋						
Shaft root dia. 丝杠轴底径	φ10.2						
Number of circuit 循环数	1.7×2						
Material 材质	Shaft 轴 SCM415H+SUS303 Nut 螺母 SCM415H						
Surface hardness 螺纹部表面硬度	HRC58~ (Thread area)						
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油						
		L4: Thread length after end-journal machining. 追加加工后的螺纹部长度 L5: Total length after end-journal machining. 追加加工后的总长					
		Support-unit Recommendation 推荐的支架组件		Supported-side 支撑侧 : EF10 Fixed-side 固定侧 : EK10			

Unit(单位): mm

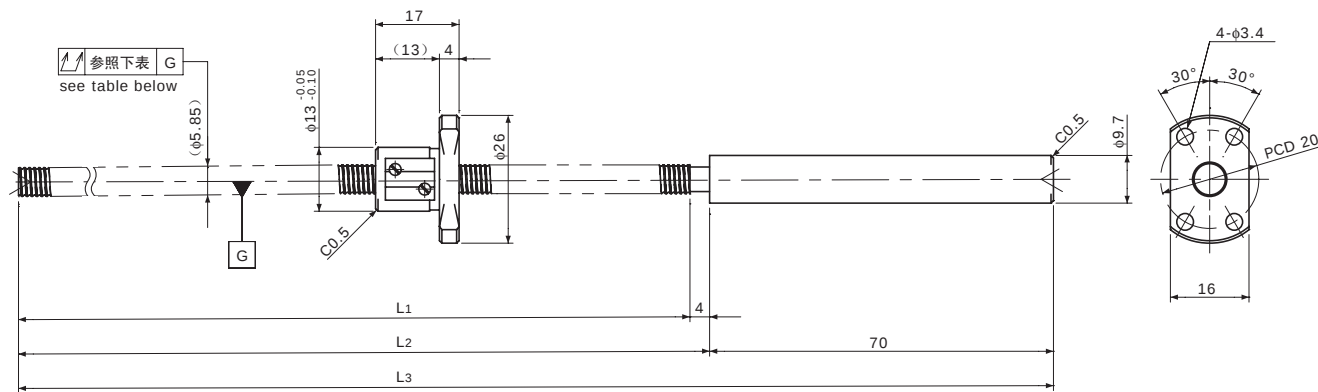
Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SRT1210-196R270C7	165	Ct7	196	200	270	±0.06	0.05	0.080	~0.020	—	5100	9800
SRT1210-396R470C7	365	Ct7	396	400	470	±0.13	0.05	0.080				
SRT1210-196R270C10	165	Ct10	196	200	270	±0.27	0.21	0.160	~0.050			
SRT1210-396R470C10	365	Ct10	396	400	470	±0.55	0.21	0.160				

Note)Please refer to p-A279 for order code of end-journal machining. 注)追加加工的公称型号指定方式请参照p-A279。

Standard products in stock SSRT series
标准库存品 SSRT系列

SSRT0601

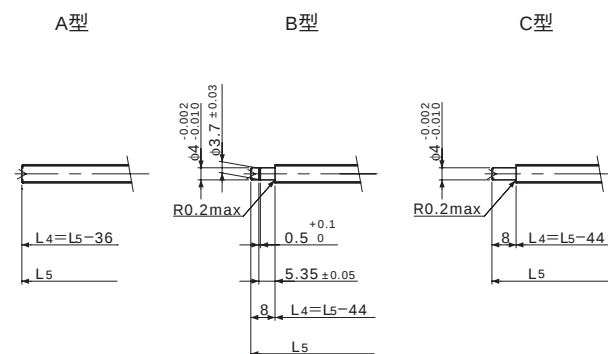
Stainless 不锈钢
Shaft dia.(轴径)φ6 Lead(导程)1mm Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ0.8	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ5.3	
Number of circuit 循环数	3.7×1	
Material 材质	Shaft 轴	SUS440C+SUS303
	Nut 螺母	SUS440C
Surface hardness 螺纹部表面硬度	HRC55~ (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

End-journal profile 轴端加工形状 Supported-side 支撑侧



L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件		Supported-side 支撑侧	Fixed-side 固定侧
		MSU-5CS/5GS, SUP04-S	MSU-5C/5G, EK5

Unit(单位): mm

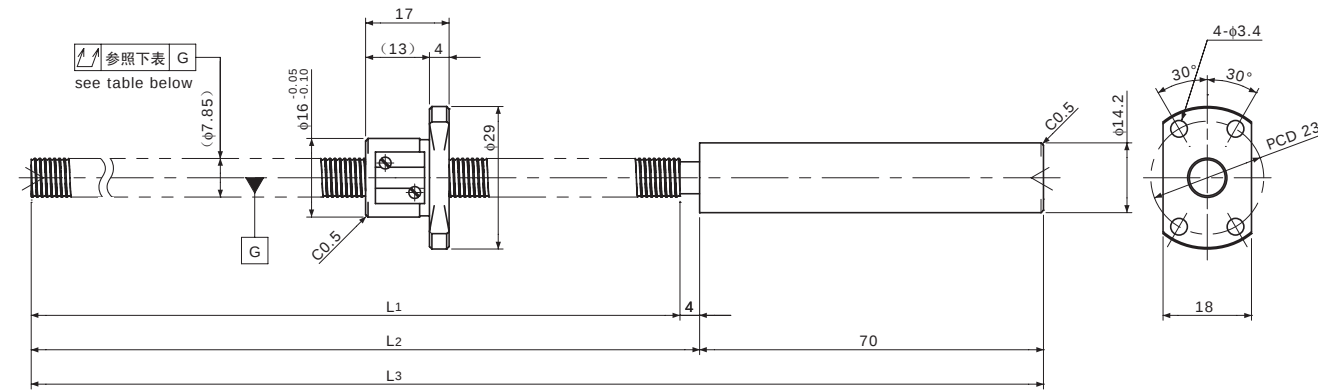
Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SSRT0601-146R220C7	125	Ct7	146	150	220	±0.05	0.05	0.080	~0.020	—	560	900
SSRT0601-261R335C7	240	Ct7	261	265	335	±0.09	0.05	0.120				
SSRT0601-146R220C10	125	Ct10	146	150	220	±0.20	0.21	0.160	~0.050			
SSRT0601-261R335C10	240	Ct10	261	265	335	±0.36	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

Standard products in stock SSRT series
标准库存品 SSRT系列

SSRT0801

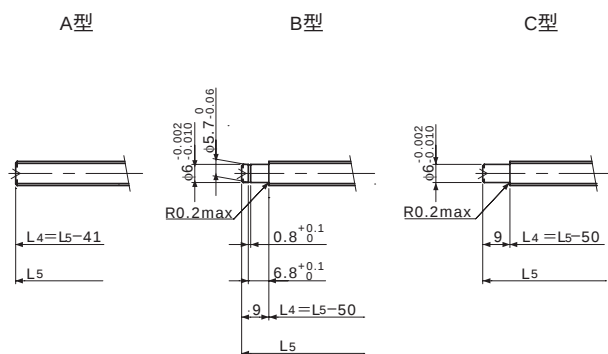
Stainless 不锈钢
Shaft dia.(轴径)φ8 Lead(导程)1mm Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		
Ball size 钢珠直径	φ0.8	
Number of thread 螺纹条数	1	
Thread direction 螺纹旋向	Right 右旋	
Shaft root dia. 丝杠轴底径	φ7.3	
Number of circuit 循环数	3.7×1	
Material 材质	Shaft 轴	SUS440C+SUS303
	Nut 螺母	SUS440C
Surface hardness 螺纹部表面硬度	HRC55~ (Thread area)	
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油	

End-journal profile 轴端加工形状 Supported-side 支撑侧



L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件		Supported-side 支撑侧	Fixed-side 固定侧
		MSU-6CS/6GS, EF6	MSU-6C/6G, EK6

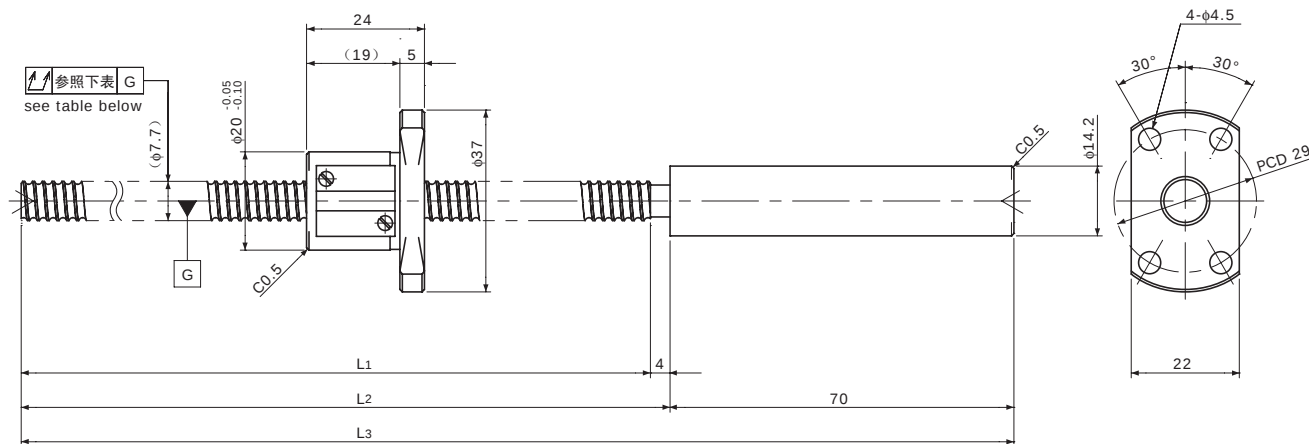
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SSRT0801-196R270C7	175	Ct7	196	200	270	±0.06	0.05	0.080	~0.020	—	630	1250
SSRT0801-356R430C7	335	Ct7	356	360	430	±0.12	0.05	0.120				
SSRT0801-196R270C10	175	Ct10	196	200	270	±0.27	0.21	0.160	~0.050			
SSRT0801-356R430C10	335	Ct10	356	360	430	±0.49	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

Standard products in stock SSRT series
标准库存品 SSRT系列

SSRT0802 | Stainless 不锈钢 | Shaft dia.(轴径)φ8 Lead(导程)2mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		End-journal profile 轴端加工形状	Supported-side 支撑侧	Fixed-side 固定侧
Ball size 钢珠直径	φ1.5875	A型	B型	C型
Number of thread 螺纹条数	1			
Thread direction 螺纹旋向	Right 右旋			
Shaft root dia. 丝杠轴底径	φ6.6			
Number of circuit 循环数	3.7×1			
Material 材质	Shaft 轴: SUS440C+SUS303 Nut 螺母: SUS440C			
Surface hardness 螺纹部表面硬度	HRC55~ (Thread area)			
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油			

L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧	Fixed-side 固定侧
	MSU-6CS/6GS, EF6	MSU-6C/6G, EK6

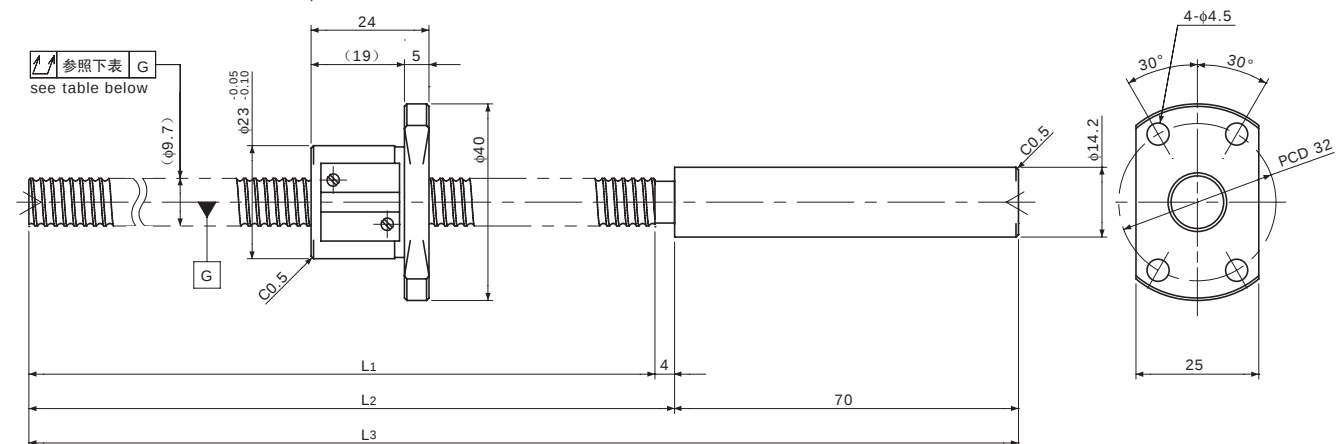
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SSRT0802-196R270C7	170	Ct7	196	200	270	±0.06	0.05	0.080	~0.020	—	1950	3100
SSRT0802-356R430C7	330	Ct7	356	360	430	±0.12	0.05	0.120				
SSRT0802-196R270C10	170	Ct10	196	200	270	±0.27	0.21	0.160	~0.050			
SSRT0802-356R430C10	330	Ct10	356	360	430	±0.49	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

Standard products in stock SSRT series
标准库存品 SSRT系列

SSRT1002 | Stainless 不锈钢 | Shaft dia.(轴径)φ10 Lead(导程)2mm | Ct7&Ct10



Unit(单位): mm

Ball Screw Specifications 主要技术参数		End-journal profile 轴端加工形状	Supported-side 支撑侧	Fixed-side 固定侧
Ball size 钢珠直径	φ1.5875	A型	B型	C型
Number of thread 螺纹条数	1			
Thread direction 螺纹旋向	Right 右旋			
Shaft root dia. 丝杠轴底径	φ8.6			
Number of circuit 循环数	3.7×1			
Material 材质	Shaft 轴: SUS440C+SUS303 Nut 螺母: SUS440C			
Surface hardness 螺纹部表面硬度	HRC55~ (Thread area)			
Anti-rust treatment 防锈处理	Anti-rust oil 防锈油			

L4: Thread length after end-journal machining. 追加加工后的螺纹部长度
L5: Total length after end-journal machining. 追加加工后的总长

Support-unit Recommendation 推荐的支架组件	Supported-side 支撑侧	Fixed-side 固定侧
	MSU-8CS/8GS, EF8	MSU-8C/8G, EK8

Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度			Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	L ₂	L ₃	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
SSRT1002-196R270C7	170	Ct7	196	200	270	±0.06	0.05	0.080	~0.020	—	2200	4000
SSRT1002-396R470C7	370	Ct7	396	400	470	±0.13	0.05	0.120				
SSRT1002-196R270C10	170	Ct10	196	200	270	±0.27	0.21	0.160	~0.050			
SSRT1002-396R470C10	370	Ct10	396	400	470	±0.55	0.21	0.240				

Note) Please refer to p-A279 for order code of end-journal machining. 注) 追加加工的公称型号指定方式请参照p-A279。

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

接单生产与精密滚珠丝杠、冷轧滚珠丝杠一样,已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。

●带法兰单螺母 Single Nut with Flange



精密滚珠丝杠/冷轧滚珠丝杠
Precision & Rolled Ball Screws

这是最简单的单螺母型。通常使用时保持微小的轴向间隙,但通过采用大号钢珠,既可施加轻预压,也可消除齿侧间隙(仅精密级)。请通过法兰部的螺栓孔进行螺母的安装。根据循环方式的不同,可分为FBS,MRB(复式回路板循环方式)、FKB(陀螺式循环方式)、FDB(偏转器式循环方式)以及FEB(端盖式循环方式)等。详情请参照尺寸表。

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 Sleeve type Single Nut



精密滚珠丝杠/冷轧滚珠丝杠
Precision & Rolled Ball Screws

通过采用1个圆柱型螺母,实现了径向的紧凑化。与带法兰单螺母相同,也可完全消除轴向间隙(仅精密级)。安装螺母时,利用圆柱面上的键槽和螺母端面将螺母固定。

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 Single Nut with M-thread



精密滚珠丝杠/冷轧滚珠丝杠
Precision & Rolled Ball Screws

这是在圆柱型螺母的单侧端面设置了公制螺纹的类型。通过螺母端面的公制螺纹进行螺母的安装,是最适用于安装气缸等的螺母。

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.

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.

●方型单螺母 Square type Single Nut



仅精密滚珠丝杠
Precision Ball Screws only

方形单螺母的安装面宽,与螺母的中心并行设置,呈方形。为了使螺母本身具备外壳功能,与法兰方式相比,外形设计可以更紧凑。

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.

●带法兰双螺母 Double Nut with Flange



仅精密滚珠丝杠
Precision Ball Screws only

该螺母是在2个螺母之间加入与预压量相应的厚隔片,消除了轴向间隙的螺母。通过施加预压,可提高刚性。通过法兰部的螺栓孔进行螺母的安装。

A Spacer is inserted between the two Nuts to eliminate Axial play. Preloading can also be applied to increase Nut Rigidity. The Nut should be mounted using bolt hole in Flange.

●套筒型双螺母 Sleeve type Double Nut



仅精密滚珠丝杠
Precision Ball Screws only

使用2个圆柱形螺母,在其中间加入隔片,施加预压。安装螺母时,利用圆柱面上的键槽和螺母端面将螺母固定。

This uses two Cylindrical Nuts with a Spacer inserted between them to apply Preload. The Nut should be mounted by clamping on the key way on the Nut outer and Nut end surface.

●双向单螺母 Bi-directional Nut with Flange

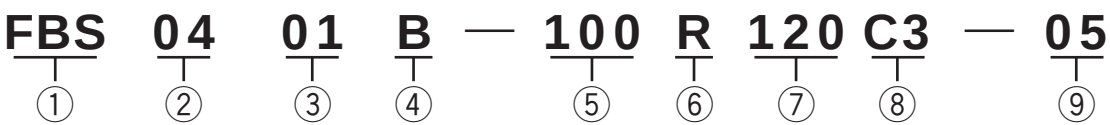


仅精密滚珠丝杠
Precision Ball Screws only

通过在1根丝杠轴上同时加工右旋和左旋螺纹,具备双向丝杠的功能。螺母虽然标准化为带法兰单螺母,但也可制作套筒型等。还可以进行左右螺纹的相位管理。

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 positon control for both Nut is available.

●公称型号的构成 Model number notation



①螺母类型符号

- FBS : 精密滚珠丝杠 带法兰单螺母
- BS : 精密滚珠丝杠 套筒型单螺母
- MS : 精密滚珠丝杠 带公制螺纹单螺母
- KS : 精密滚珠丝杠 方型单螺母
- FSBS : 精密滚珠丝杠 带法兰双螺母
- SWBS: 精密滚珠丝杠 套筒型双螺母

- MRB : 冷轧滚珠丝杠 带法兰单螺母
- BSR : 冷轧滚珠丝杠 套筒型单螺母
- MSR : 冷轧滚珠丝杠 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.

- FBS : Precision Ball Screws Single Nut with Flange
- BS : Precision Ball Screws Sleeve type Single Nut
- MS : Precision Ball Screws Single Nut with M-thread
- KS : Precision Ball Screws Square type Single Nut
- FSBS : Precision Ball Screws Double Nut with Flange
- SWBS: Precision Ball Screws Sleeve type Double Nut

- MRB : Rolled Ball Screws Single Nut with Flange

- BSR : Rolled Ball Screws Sleeve type Single Nut

- MSR : Rolled Ball Screws 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p-A801。
- 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”p-A901。

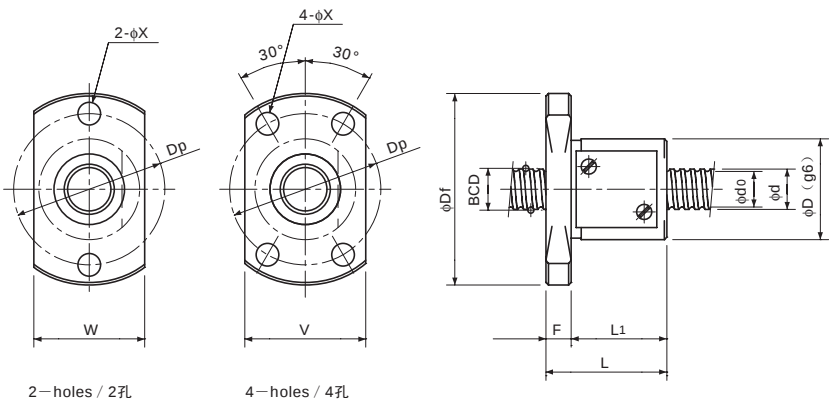
●Precaution

- Please refer to dimension table of each model regarding dimension, Load Rating, Rigidity.
- Please refer to Technical Description in p-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 p-A901 in detail other than the above.

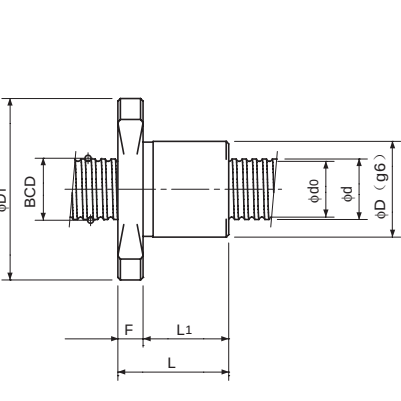
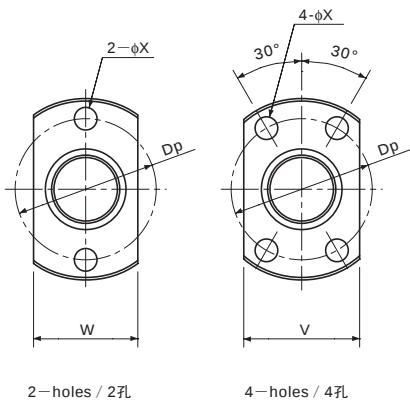
Precision Ball Screws 精密滚珠丝杠

Single Nut with Flange
带法兰单螺母

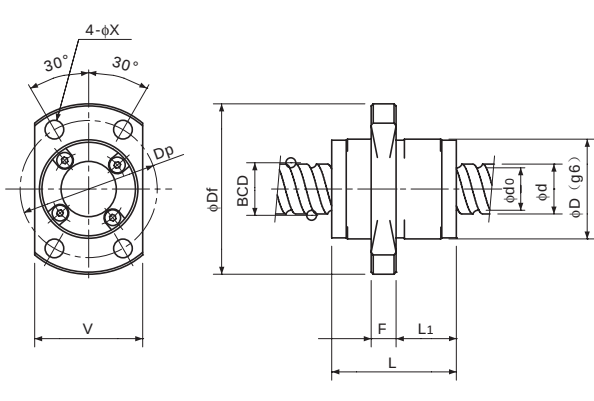
Backlash type/Preload type
齿侧间隙型/预压型



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
FBS 0403 A	4	3	0.8	4.15	12°57′	3.3	2.7×1	420 / —	570 / —	39 / —		1	11	23	21	17	4	13	15	17	3.4	FBS 0403 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

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p-A823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 p-A823, you can calculate Rigidity using this formula.

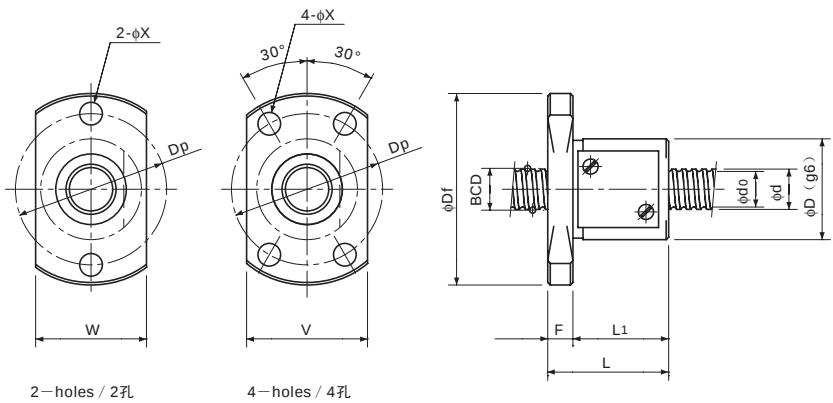
Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.

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

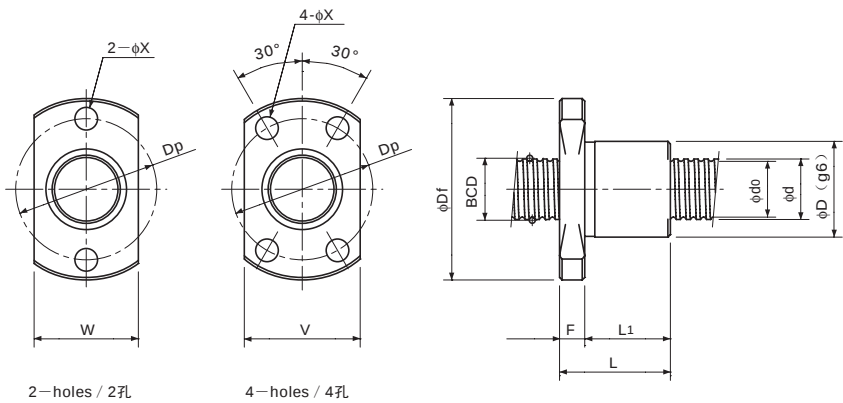
Precision Ball Screws 精密滚珠丝杠

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 C _a	Static 额定静负载 C _{0a}			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 / 一	370 / 一	44 / 一		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p-A823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

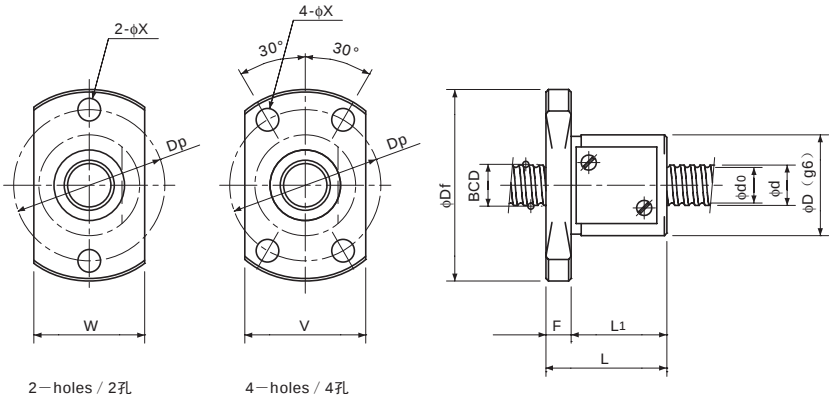
Backlash type
齿侧间隙型

- 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 p-A823, 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.

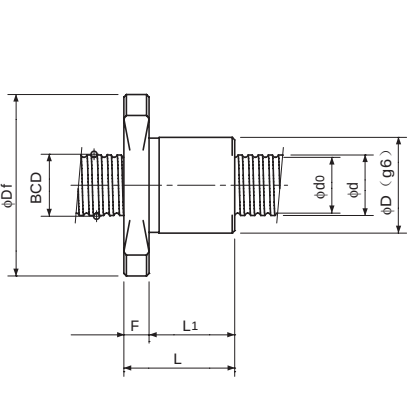
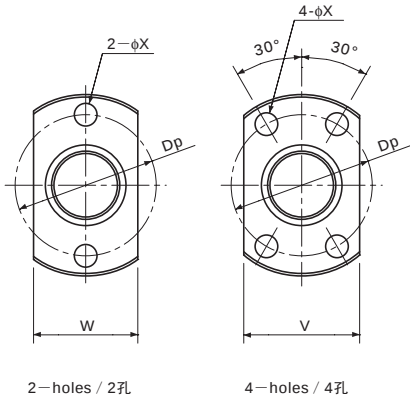
Precision Ball Screws 精密滚珠丝杠

Single Nut with Flange
带法兰单螺母

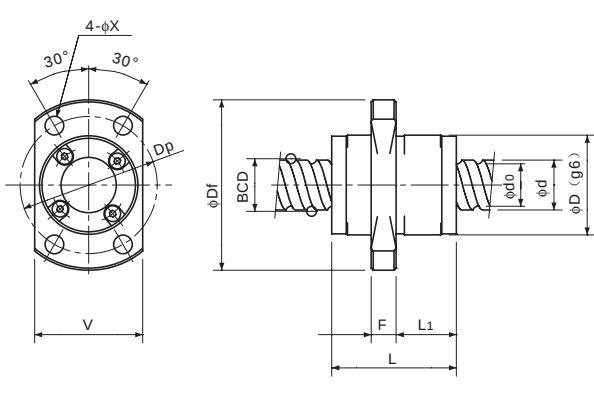
Backlash type/Preload type
齿侧间隙型/预压型



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 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	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 B	6	2	1.0	6.20	5°52′	5.1	3.7×1	980 / 620	1600 / 800	79 / 67		1	15	29	21	17	4	17	18	23	3.4	FBS 0602 B
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p-A823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

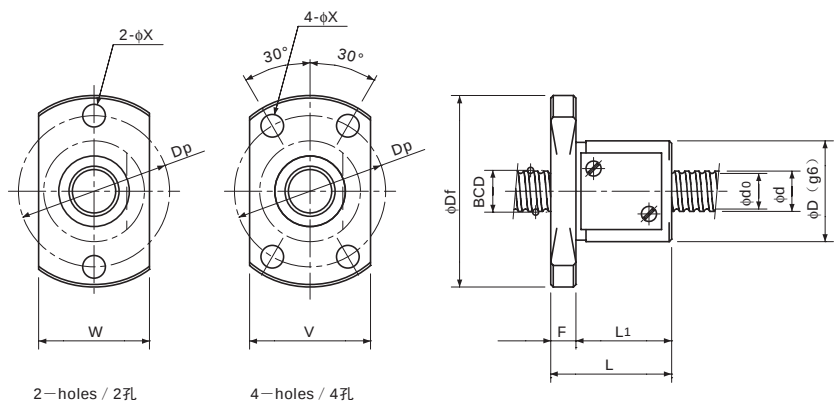
Backlash type
齿侧间隙型

- 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 p-A823, 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.

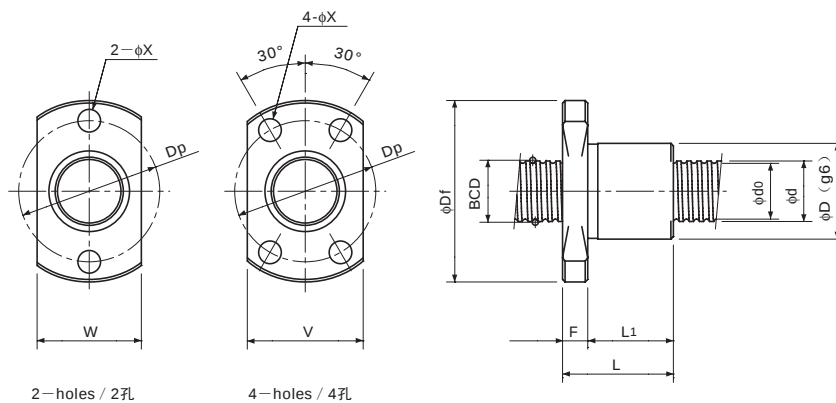
Precision Ball Screws 精密滚珠丝杠

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 A(1)	8	2	1.0	8.20	4°26′	7.1	2.7×1	850 / 540	1600 / 800	74 / 61	1	16	30	17	13	4	18	18	24	3.4	FBS 0802 A(1)
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 A(2)	8	2	1.5875	8.30	4°23′	6.6	2.7×1	1850 / 1150	3000 / 1500	82 / 69	1	20	38	21	16	5	22	23	30	4.5	FBS 0802 A(2)
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p-A823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 p-A823, you can calculate Rigidity using this formula.

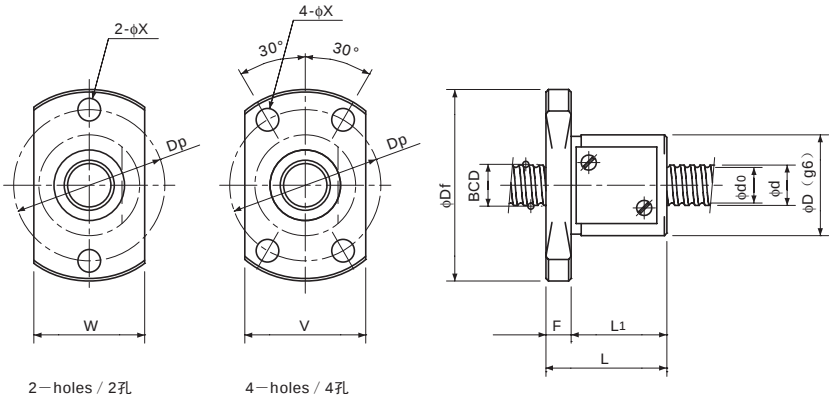
Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.

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

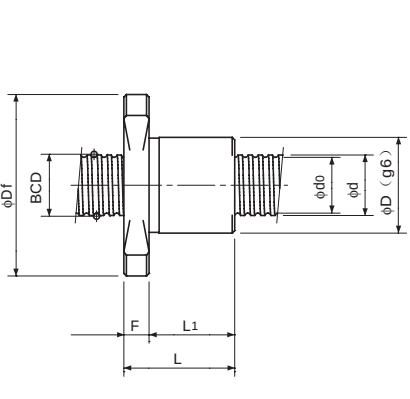
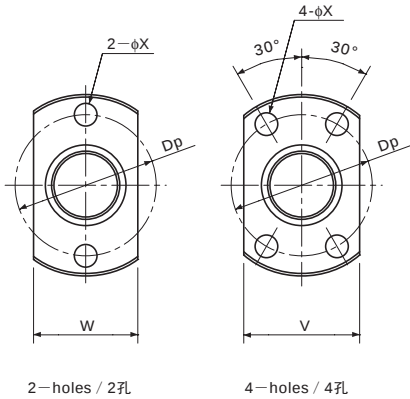
Precision Ball Screws 精密滚珠丝杠

Single Nut with Flange
带法兰单螺母

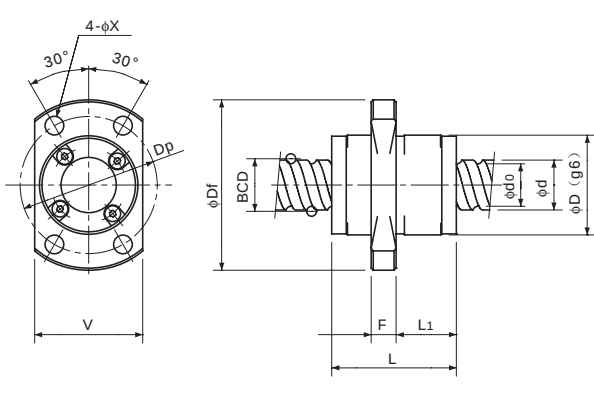
Backlash type/Preload type
齿侧间隙型/预压型



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	
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 A	8	2.5	1.5875	8.30	5°29′	6.6	2.7×1	1850 / 1150	3000 / 1500	82 / 69		1	20	38	23	18	5	22	23	30	4.5	FBS 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 0803 B	8	3	2.0	8.30	6°34′	6.2	3.7×1	3500 / 2200	5700 / 2800	116 / 97		1	20	38	29	24	5	22	23	30	4.5	FBS 0803 B
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

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p-A823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 p-A823, you can calculate Rigidity using this formula.

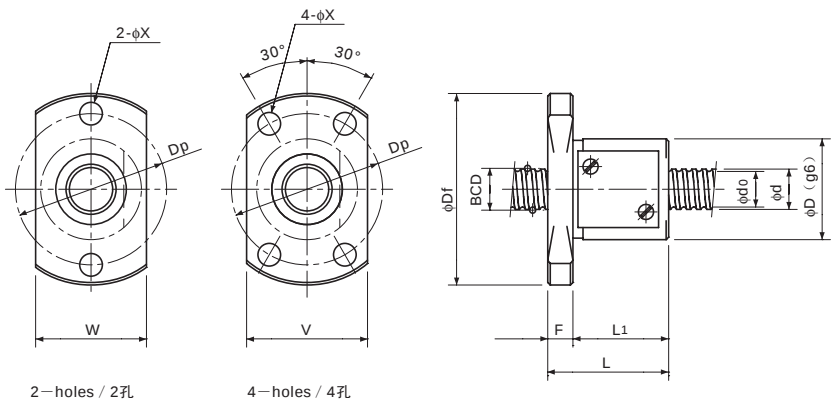
Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.

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

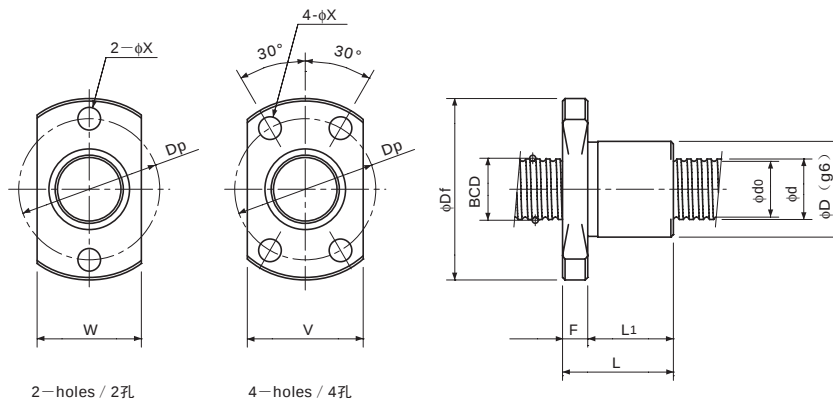
Precision Ball Screws 精密滚珠丝杠

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

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 A	10	2	1.5875	10.30	3°32′	8.6	2.7×1	2100 / 1300	3800 / 1900	100 / 82		1	23	41	21	16	5	25	25	33	4.5	FBS 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 A	10	2.5	1.5875	10.30	4°25′	8.6	2.7×1	2100 / 1300	3800 / 1900	100 / 82		1	24	44	24	18	6	26	27	35	5.5	FBS 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p-A823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 p-A823, you can calculate Rigidity using this formula.

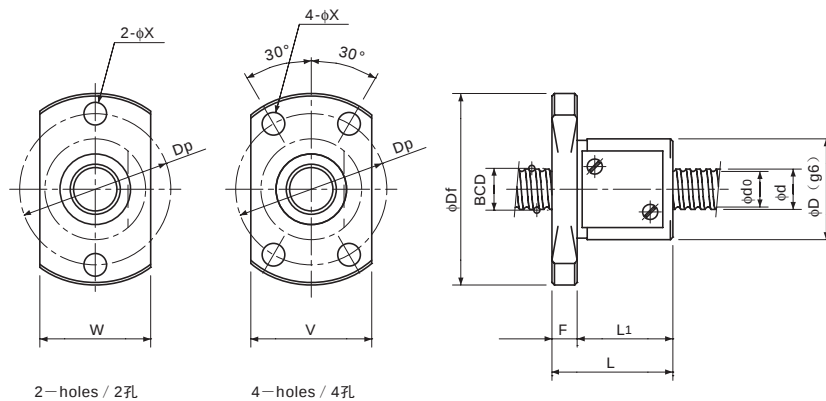
Note 4)All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.

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

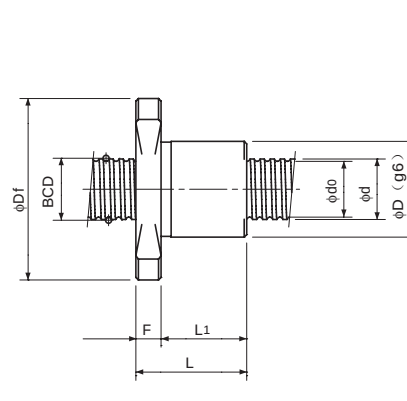
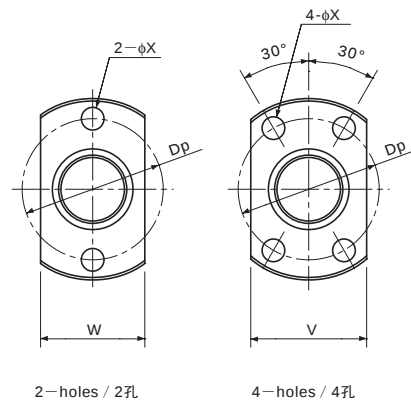
Precision Ball Screws 精密滚珠丝杠

Single Nut with Flange 带法兰单螺母

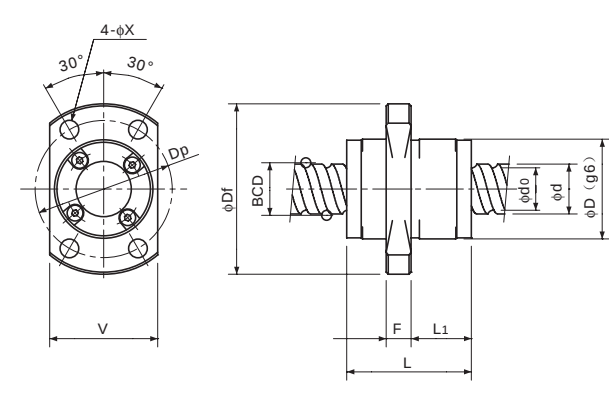
Backlash type/Preload type 齿侧间隙型/预压型



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 A	10	3	2.0	10.30	5°18'	8.2	2.7×1	3000 / 1800	5200 / 2600	103 / 84		1	24	44	26	20	6	26	27	35	5.5	FBS 1003 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	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
FBS 1004 B	10	4	2.0	10.30	7°03'	8.2	3.7×1	3900 / 2500	7200 / 3600	139 / 118		1	24	44	33	27	6	26	27	35	5.5	FBS 1004 B
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 1012 A	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	FEB 1012 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 1025 A	10	25	1.5875	10.40	37°25'	8.7	0.7×4	2100 / —	4000 / —	82 / —		3	20	37	27.5	17.5	5	—	22	29	4.5	FEB 1025 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p-A823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。

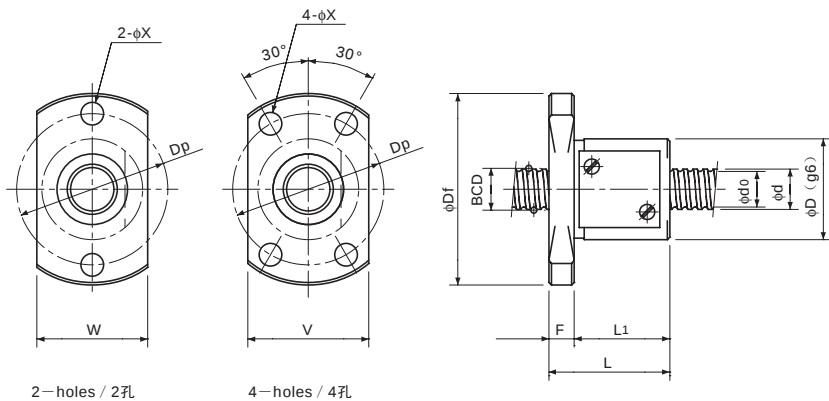
Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138
		Preload type 预压型
		Backlash type 齿侧间隙型

- 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 p-A823, 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.

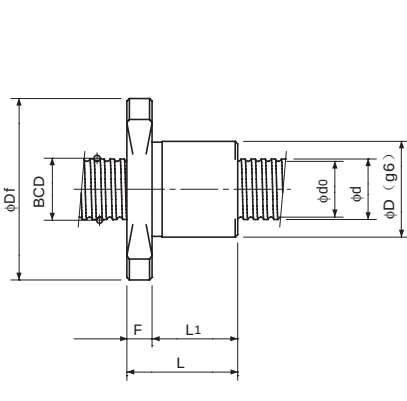
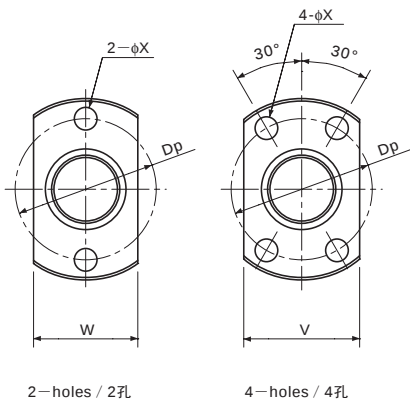
Precision Ball Screws 精密滚珠丝杠

Single Nut with Flange
带法兰单螺母

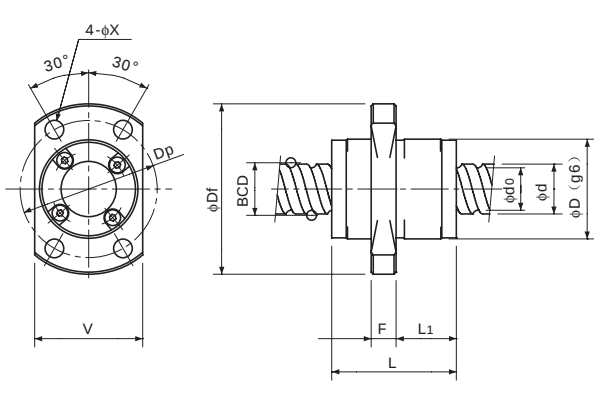
Backlash type/Preload type
齿侧间隙型/预压型



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
FEB 1210 A	12	10	2.381	12.65	14°7′	10.2	1.7×2	5100 / —	9800 / —	152 / —		3	24	41	30	14.5	6	—	26	33	4.5	FEB 1210 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p-A823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

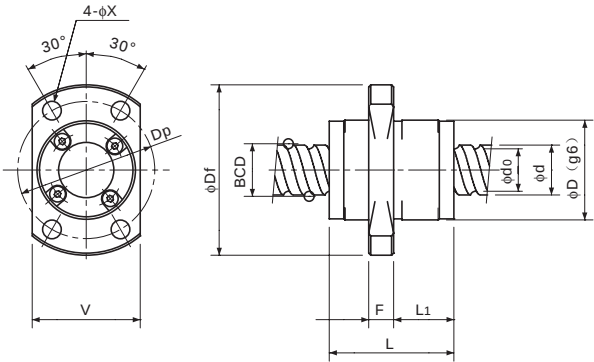
Backlash type
齿侧间隙型

- 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 p-A823, 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-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 _o	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 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p-A823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。

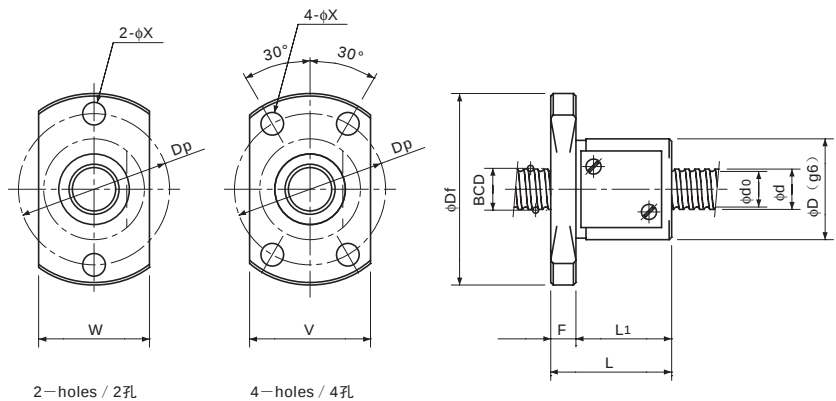
Basic Load Rating 基本额定负载 N		Nut Rigidity 螺母刚性 N/μm
Dynamic 额定动负载 Ca	Static 额定静负载 Coa	
1000 / 640	3300 / 1650	164 / 138
		Preload type 预压型
		Backlash type 齿侧间隙型

- 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 p-A823, 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.

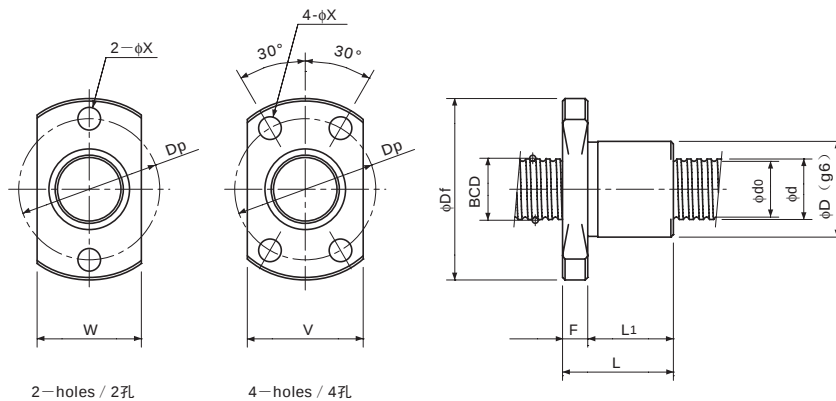
Precision Ball Screws 精密滚珠丝杠

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′	11.9	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p-A823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 p-A823, 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.