

Table of Shaft dia. and Lead combination

[Nut style list for Precision Ball Screws & Rolled Ball Screws]

[Description]

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

Standard Products in stock
Customized Products
Model No. page

Nut style	Precision Ball Screws		Precision Rolled Ball Screws	Rolled Ball Screws	
	Standard Products	Customized Products	Standard Products	Standard Products	Customized Products
Single Nut with Flange	SG	FKB FBS FDB FEB	PSR PSRT	SR SSR SRT SSRT	MRB
Sleeve type Single Nut	—	BS	—	—	BSR
Single Nut with M-thread	—	MS	—	—	MSR
Square type Single Nut	—	KS	—	—	—
Bi-directional Nut with Flange	SD	FBS* FKB*	—	—	—

※Please refer to page A201 regarding the detail of Standard Products Note)* means Bi-directional Nut with Flange.

Table of Shaft dia. and Lead combination (Model distinction)

Shaft dia. (mm)	Lead (mm)								Lead (mm)															
	0.5	1	1.5	2	2.5	3	4	5	6	8	10	12	15	20	30									
1.8	A505 FBS																							
3	A207 SG	A505 FBS	A208 SG	A505 FBS A529 BS																				
4	A505 FBS	A209 SG A239 SD A247 SR A248 SR(K) A289 SRT A290 SRT(K) A323 PSR A324 PSRT A325 PSR(K) A326 PSRT(K)	A505 FKB A505 FBS A529 BS A539 MS A545 FKB* A551 MRB A551 MRB(K) A559 BSR A563 MSR	A210 SG A249 SR A291 SRT	A505 FBS A529 BS A551 MRB A559 BSR		A505 FEB			A505 FEB														
5	A507 FBS		A507 FKB A507 FBS A529 BS A545 FKB*				A211 SG A250 SR A292 SRT	A507 FBS A529 BS A551 MRB A559 BSR																
6	A509 FBS	A212 SG A240 SD A251 SR A252 SR(K) A281 SSR A293 SRT A294 SRT(K) A315 SSRT A327 PSR A328 PSRT A329 PSR(K) A330 PSRT(K)	A509 FKB A509 FBS A529 BS A543 KS A545 FKB* A551 MRB A551 MRB(K) A559 BSR	A509 FBS A529 BS	A213 SG A253 SR A295 SRT	A509 FBS A529 BS	A214 SG			A215 SG A254 SR A296 SRT	A509 FEB A551 MRB		A216 SG A255 SR A297 SRT	A509 FEB A551 MRB	A509 FEB									
8	A511 FBS	A217 SG A241 SD A256 SR A257 SR(K) A282 SSR A298 SRT A299 SRT(K) A316 SSRT A331 PSR A332 PSRT A333 PSR(K) A334 PSRT(K)	A511 FKB A511 FBS A531 BS A543 KS A545 FKB* A553 MRB A553 MRB(K) A559 BSR	A511 FKB A511 FBS A531 BS A539 MS A545 FKB*	A218 SG A242 SD A258 SR A259 SR(K) A283 SSR A300 SRT A301 SRT(K) A317 SSRT A335 PSR A336 PSRT A337 PSR(K) A338 PSRT(K)	A511 FKB A511 FBS A531 BS A539 MS A543 KS A545 FKB* A553 MRB A553 MRB(K) A559 BSR A563 MSR	A219 SG A260 SR A302 SRT	A513 FDB A513 FBS A531 BS A539 MS	A513 FBS A531 BS A539 MS	A220 SG	A513 FBS A531 BS A539 MS		A222 SG A262 SR A304 SRT	A513 FEB A553 MRB	A263 SR	A513 FEB A553 MRB	A223 SG A264 SR A305 SRT A339 PSR A340 PSRT	A513 FEB A553 MRB						
10		A224 SG	A515 FKB A515 FBS A533 BS A543 KS A545 FKB*	A515 FKB A515 FBS A533 BS A545 FKB*	A225 SG A243 SD A265 SR A266 SR(K) A284 SSR A306 SRT A307 SR(K) A318 SSRT A341 PSR(K) A342 PSRT(K)	A515 FKB A515 FBS A533 BS A541 MS A543 KS A545 FKB* A555 MRB A555 MRB(K) A561 BSR A563 MSR		A515 FKB A515 FBS A533 BS A545 FKB*	A517 FBS A533 BS A545 FBS* A555 MRB A561 BSR A563 MSR	A226 SG A267 SR	A517 FBS A533 BS A545 FBS* A555 MRB A561 BSR		A555 MRB A561 BSR		A228 SG A269 SR A309 SRT	A517 FEB A555 MRB		A555 MRB	A229 SG A270 SR A310 SRT	A517 FEB A555 MRB	A271 SR	A517 FEB A555 MRB	A517 FEB	
12		A519 FKB A519 FBS A535 BS A547 FKB*	A230 SG A244 SD A272 SR A273 SR(K) A312 SRT A313 SRT(K) A343 PSR(K) A344 PSRT(K)	A519 FKB A519 FBS A535 BS A541 MS A547 FKB* A555 MRB A555 MRB(K) A561 BSR A563 MSR		A519 FKB A519 FBS A535 BS A547 FKB*		A519 FKB A519 FBS A535 BS A547 FKB*				A519 FBS A535 BS			A231 SG A274 SR A314 SRT	A521 FEB A521 FBS A555 MRB								
13													A521 FEB A557 MRB			A521 FEB A557 MRB						A521 FEB A557 MRB		
14		A523 FBS A535 BS A547 FBS*	A232 SG A275 SR	A523 FKB A523 FBS A535 BS A541 MS A547 FKB* A557 MRB A561 BSR A563 MSR		A523 FKB A523 FBS A535 BS A547 FKB*	A523 FKB A523 FBS A535 BS A547 FKB*	A233 SG A276 SR				A523 FBS A535 BS A547 FBS*												
15								A525 FBS		A234 SG A277 SR	A525 FEB A525 FBS A557 MRB			A235 SG A278 SR	A525 FEB A525 FBS A557 MRB				A236 SG A279 SR	A525 FEB A525 FBS A557 MRB			A525 FEB	
16		A527 FBS A537 BS A549 FBS*		A527 FKB A527 FBS A537 BS A549 FKB*		A527 FKB A527 FBS A537 BS A549 FKB*						A527 FBS A537 BS A549 FBS*												

Ball Screws

Outline

Since KSS started production and sales of Ball Screw in 1978, we have been working on product development as a pioneer of Miniature Ball Screws. In addition, we developed Unit Products related Ball Screw. At this time, we have combined developed products until now into one catalogue for more usability.

●Classification of KSS Ball Screws

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

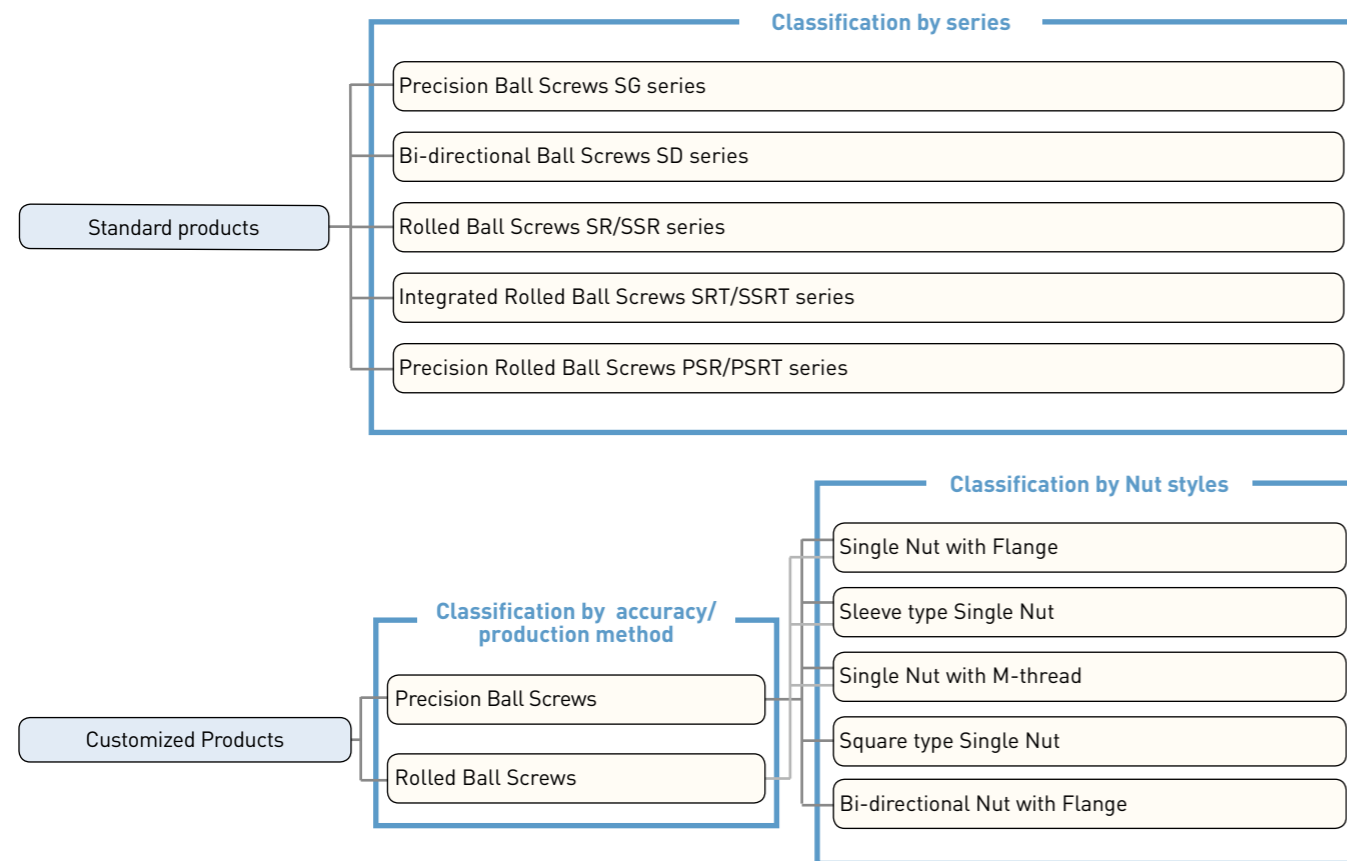


Fig. A-11 : Classification of KSS Ball Screws

●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.

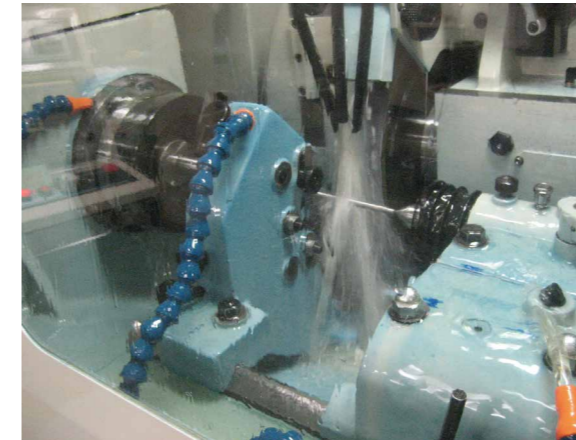
●Customized products

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.

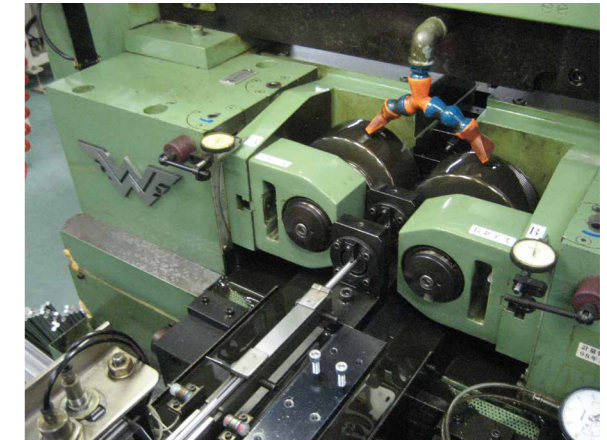
●Precision Ball Screws and Rolled Ball Screws

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.



High accurate shaft groove process by Grinding machine



Rolling process by Rolling dies

●Approach of quality and environment



JQA-QM4131
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ボールねじ、精密送りねじ及びユニット類の設計・開発及び製造

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.



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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.

●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 except specific country. Please refer to KSS homepage regarding list regulation by Export administration.

<http://www.kssballscrew.com>