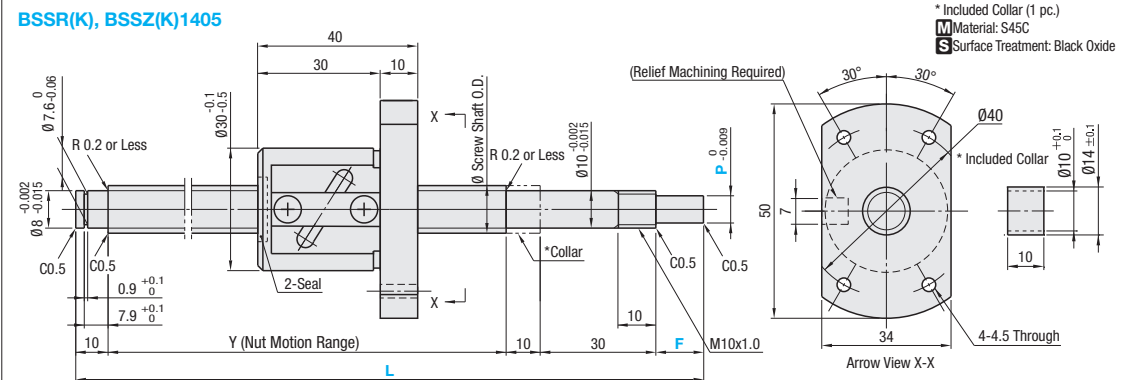
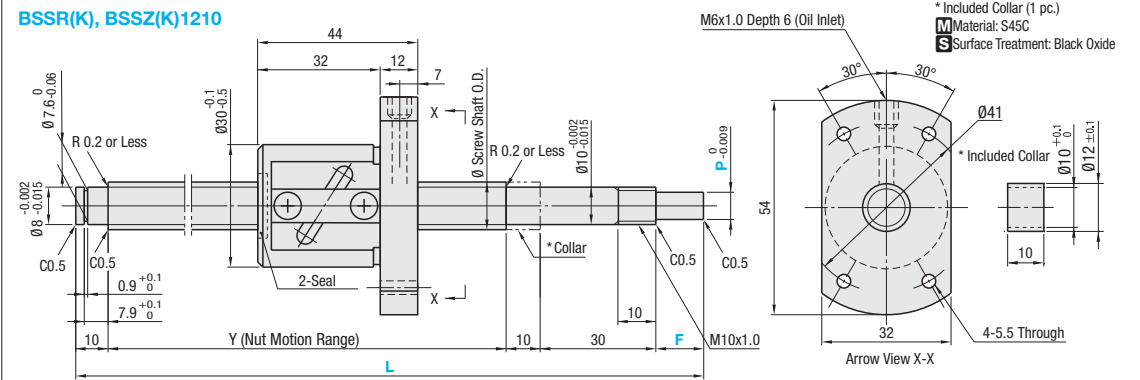
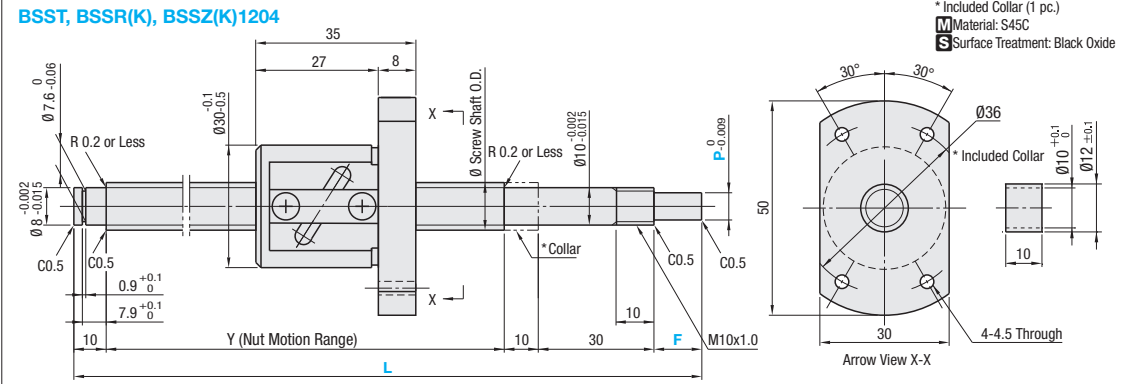


Rolled Ball Screws Standard Nut - Shaft Dia.12, 14, Lead 4, 5, 10

Accuracy Grade C7, C10

Points of comparison between similar products | Consider using this product if the usage environment is a high-load, and high-frequency drive application.

Nut Type	Type		Accuracy Grade	Shaft Dia.	Lead	Screw Shaft			Nut		
	Standard	F, P Configurable				Material	Hardness	Surface Treatment	Material	Hardness	Surface Treatment
Standard Nut	BSST	-	C7	12	4	M	H	S	M	H	S
	BSSR	BSSRK	C10	12, 14	4, 5, 10	S55C	Induction Hardened 56-62HRC	Phosphate Conversion Coating	SCM420	Carburized 58-62HRC	Phosphate Conversion Coating / Low Temperature Black Chrome
	BSSZ	BSSZK									



Nut Type	Accuracy Grade	Part Number		1mm Increment			Ball Dia.	Ball Center Dia.	Screw Root Dia.	Number of Circuits	Basic Load Rating C (Dynamic) kN	Basic Load Rating Co (Static) kN	Axial Play	Twisting Direction							
		Type	Screw Shaft O.D.	L	*F	*P									Y						
Standard Nut	C7	BSST	12	150-795	15	8	L-65	2.3812	12.6	(10)	2.5 turns, 1 row	2.6	5.8	Right							
				150-800	15-24	5-8	L-(50+F)														
		BSSR	10	150-800	15	8	L-65														
				150-800	15-24	5-8	L-(50+F)														
		BSSZ	14	05	150-800	15	8								L-65	3.175	12.8	(9.6)	1.5 turns, 1 row	2.85	4.95
					150-800	15-24	5-8								L-(50+F)						

Nut Type	Accuracy Grade	Part Number	Unit Price 1 ~ 4 pc(s).		
			L150~400	L401~600	L601~800
Standard Nut	C7	BSST1204			
	C10	BSSR1204			
		BSSZ1204			
		BSSR1210			
		BSSZ1210			
		BSSR1405			
		BSSZ1405			

Ordering Example

Part Number - L - F - P

BSSZ1204 - 200
 BSSZK1210 - 370 - F20 - P8
 BSSR1204L - 370 (L Type Greased)
 BSSR1405G - 370 (G Type Greased)

- Notes**
- Mounting surface of BSST ball nut flange is not surface-treated.
 - Filled with lithium soap based grease (Alvania Grease S2 made by Showa Shell Sekiyu K.K.).
 - Various grease options are available. For price and specifications, see P.686
 - For accuracy of Ball Screws, see P.2223 and P.2224.
 - For details of Support Units, see P.753 ~ P.778.
 - Caution: Do not let the nuts overrun or remove the nuts from the screw shafts. It may cause the balls to fall out or damage the ball recirculation parts.
 - Use the "*" collar" position in the diagram for the accessory collar. Use one of the support unit accessory collars on the fastening nut side.
 - Do not tilt the ball screw assembly since the nut may spin off from the shaft due to its own weight.

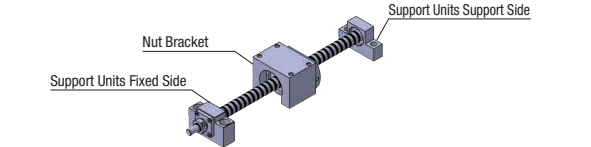
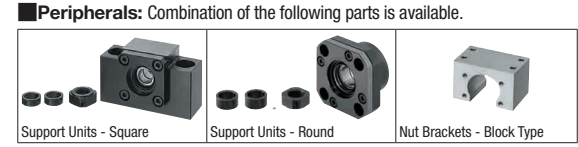
Alterations

Part Number - L - F - P - (FC, KC etc.)

BSSR1204 - 270 - SC7

Alterations	Code	Spec.
No Machining on Support Side Shaft End	NC	No machining added on the support side shaft end. Ordering Code: NC
Ball Nut Orientation Reversed (Support Side) (Fixed Side) Std. Revised	RLC	Changes the nut direction. Ordering Code: RLC
No Retaining Ring Groove on Support Side Shaft End	RNC	No Retaining Ring Groove on Support Side Shaft End. Ordering Code: RNC *Combination with FC is not available.
Change Support Side Shaft End Machining	GC	Changes the machining on the support side. For the screw shaft 12, Q is selectable from 6, 8 and 10. G=1mm Increment Ordering Code: GC-Q8-G20 *5≤G≤Q/3 *Y dimension is shortened.
Change Support Side Shaft End Length	FC	Changes the length of the support side shaft end. FC=1mm Increment Ordering Code: FC20 *11≤FC≤20 *Y dimension is shortened.

Alterations	Code	Spec.
Wrench Flats on Fixed Side	SZC	Adds wrench flats on the fixed side shaft end. Ordering Code: SZC *Ball bearings will fall out if the ball nut crosses the wrench flats.
Incomplete Hardened Area	KC	Adds a keyway on the fixed side shaft end. P=5 is not applicable. KC=1mm Increment Ordering Code: KC10 *3≤KC≤Px3 KC≤F-1
Keyway on Fixed Side Shaft End Detailed Keyway Dimensions P.684	KLC	Adds a keyway at a customer specified area on the fixed side shaft end. (Keyway dim. is same as KC.) P=5 is not applicable. K, S=1mm Increment Ordering Code: KLC-K5-S2 *4≤K+S≤Px3 K+S≤F-1
Keyway on Fixed Side Shaft End	K	
Flat Machined on Fixed Side Shaft End	SC	Adds a flat on the fixed side shaft end. SC=1mm Increment Ordering Code: SC7 *5≤SC≤Px3 SC≤F-1
2 Flats Machined on Fixed Side Shaft End	SWC, SGC	Adds two flats on the fixed side shaft end. SWC: 90° Position SGC: 120° Position 1mm Increment Ordering Code: SWC7 *5≤SWC, SGC≤Px3 SWC, SGC≤F-1
Installing Special Temporary Shaft	TAS	Special Temporary Shafts suitable with Ball Screws are installed. When removing Nut from Screw Shaft, always use Special Temporary Shaft. *For installation method, see P.685.



Combination with Support Units

Ball Screw Part Number	Recommended Support Unit			
	Type	Screw Shaft O.D.	Lead	Page
BSST BSSR BSSZ	Round	12	04	P.767
				P.768
				P.761
	Square	10	05	P.762
				P.767
				P.768
BSSR BSSZ	14	05	P.761	
			P.762	
			P.762	

Combination with Nut Brackets

Ball Screw Part Number	Recommended Nut Bracket				
	Type	Screw Shaft O.D.	Lead	Page	
BSST BSSR BSSZ	12	04	BNFB	1204R	P.780
			BNFM	1210S	P.780
	14	05	BNFR	1405R	P.780
			BNFA		

*Other than the part numbers shown above, a wide variety of Nut Brackets are also available. (P.780)

*Other than the part numbers shown above, a wide variety of Support Units are also available. (P.761~P.778)