

# Rolled Ball Screws Standard Nut - Shaft Dia. 8; Lead 2, 4

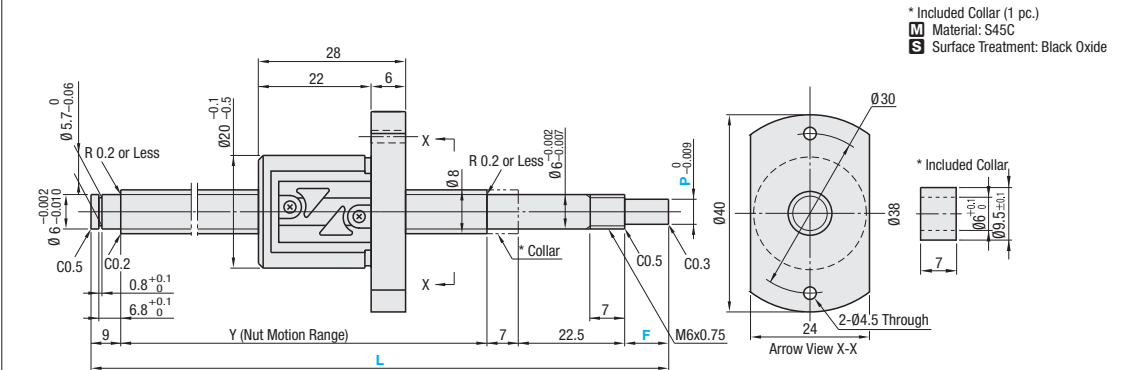
## Accuracy Grade C7, C10

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

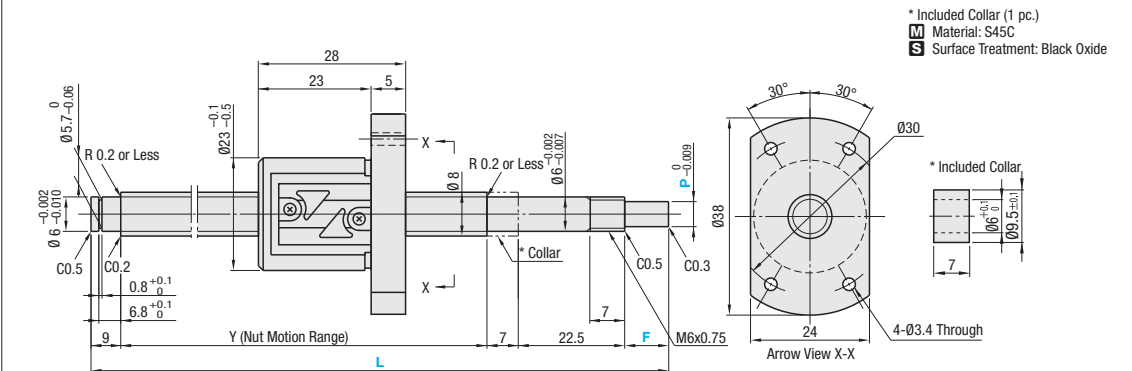


Nut Type	Type		Accuracy Grade	Shaft Dia.	Lead	Screw Shaft			Nut		
	Standard	F, P Configurable				Material	Hardness	Surface Treatment	Material	Hardness	Surface Treatment
Standard Nut	BSST	-	C7	8	2	S55C	Induction Hardened	-	SCM420	Carburized 58-62HRC	Phosphate Conversion Coating
	BSSR	BSSRK	C10	8	2, 4	S55C	Induction Hardened 56-62HRC	Phosphate Conversion Coating	SCM420	Carburized 58-62HRC	Phosphate Conversion Coating
	BSSZ	BSSZK			2						

BSST, BSSR (K), BSSZ (K) 0802



BSSR (K) 0804



Nut Type	Accuracy Grade	Part Number	1mm Increment			Y	Ball Dia.	Ball Center Dia.	Screw Root Dia.	Number of Circuits	Basic Load Rating C (Dynamic) / Co (Static) kN	Axial Play	Twisting Direction
			L	*F	*P								
Standard Nut	C7	BSST	100~380	7.5	4.5	L-46	1.5875	8.3	(6.6)	3.5 turns, 1 row	1.8	3.2	0.03 or Less
		BSSR	100~400	8~13	4, 4.5								
	C10	BSSRK	100~400	8~13	4, 4.5	L-(38.5+F)	2	8.4	(6.3)	2.5 turns, 1 row	1.9	3.1	
		BSSZK	100~380	8~13	4, 4.5								
		BSSR	100~380	8~13	4, 4.5	L-(38.5+F)	2	8.4	(6.3)	2.5 turns, 1 row	1.9	3.1	
		BSSRK	100~380	8~13	4, 4.5								

\* F and P are configurable for BSSRK and BSSZK only. \* F ≤ Px3 kgf = Nx0.101972

Nut Type	Accuracy Grade	Part Number	Unit Price 1 ~ 4 pc(s).	
			L100~200	L201~400
Standard Nut	C7	BSST0802		
		BSSR0802		
	C10	BSSZ0802		
		BSSR0804		

Ordering Example: Part Number - L - F - P

BSSZ0802 - 200 - F12 - P4.5

BSSZK0802 - 370 - F12 - P4.5

BSSR0802L - 370 (L Type Greased)

BSSR0804G - 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.

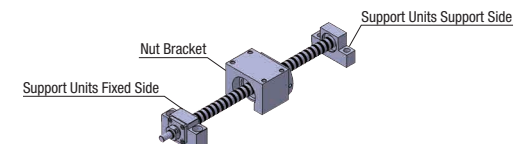
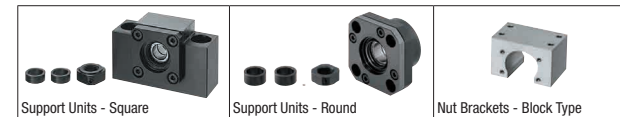
Alterations: Part Number - L - F - P - (FC, SC, etc.)

BSSR0802 - 270 - SC5

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)	RLC	Changes the nut direction. Ordering Code: RLC
No Retaining Ring Groove on Support Side Shaft End	RNC	Retaining ring groove is not machined on the support side shaft end. Ordering Code: RNC *Combination with FC is not available.
Change Support Side Shaft End Length	FC	Changes the length of the support side shaft end. FC=1mm Increment Ordering Code: FC20 *10 ≤ 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.
Flat Machined on Fixed Side Shaft End	SC	Adds a flat on the fixed side shaft end. SC=1mm Increment Ordering Code: SC5 *5 ≤ SC ≤ 12 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: SWC6 *5 ≤ SWC, SGC ≤ 12 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.

Peripherals: Combination of the following parts is available.



### Combination with Support Units

Ball Screw Part Number	Recommended Support Unit					
	Type	Screw Shaft O.D.	Lead	Part Number Type	Shape	Page
BSST BSSR BSSZ	08	02 04	6	BRW	Round	P.767
				BUR	Round	P.768
				BSW	Square	P.761
				BUN	Square	P.762

### Combination with Nut Brackets

Ball Screw Part Number	Recommended Nut Bracket			
	Type	Screw Shaft O.D.	Lead	Page
BSST BSSR BSSZ	08	02 04	BNFB	802R
			BNFM	P.780
			BNFR	804R
			BNFA	P.780

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

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