

Rolled Ball Screws Standard Nut - Shaft Dia. 20; Lead 5, 10, 20

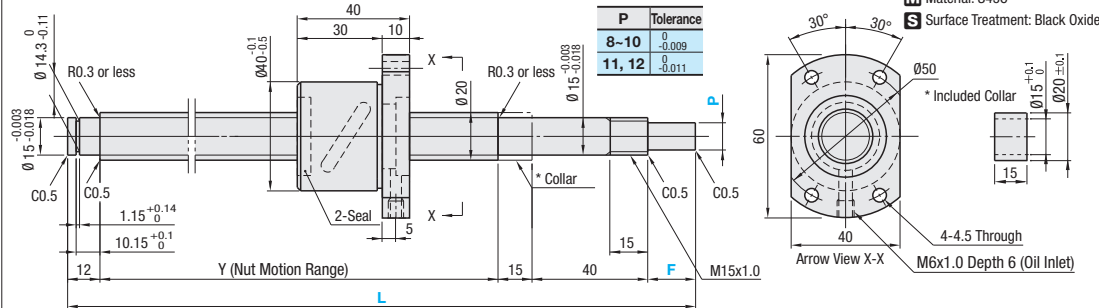
Accuracy Grade C7, C10

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

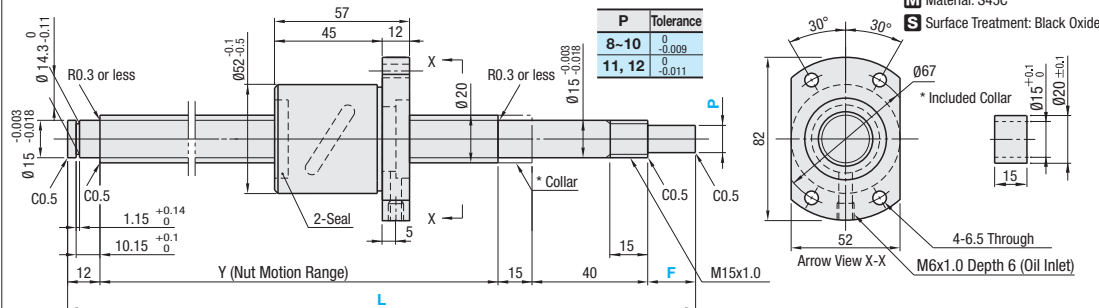


Nut Type	Type		Accuracy Grade	Shaft Dia.	Lead	Screw Shaft			Nut			
	Standard	F, P Configurable				Material	Hardness	Surface Treatment	Material	Hardness	Surface Treatment	
Standard Nut	BSST	-	C7	20	5, 10, 20	S55C	Induction Hardened	-	SCM420	Carburized	58-62HRC	Low Temperature Black Chrome
	BSSR	BSSRK	C10	20	5, 10, 20	S55C	Induction Hardened	Phosphate Conversion Coating	SCM420	Carburized	58-62HRC	Low Temperature Black Chrome
	BSSZ	BSSZK	C10	20	5, 10, 20	S55C	Induction Hardened	Phosphate Conversion Coating	SCM420	Carburized	58-62HRC	Low Temperature Black Chrome

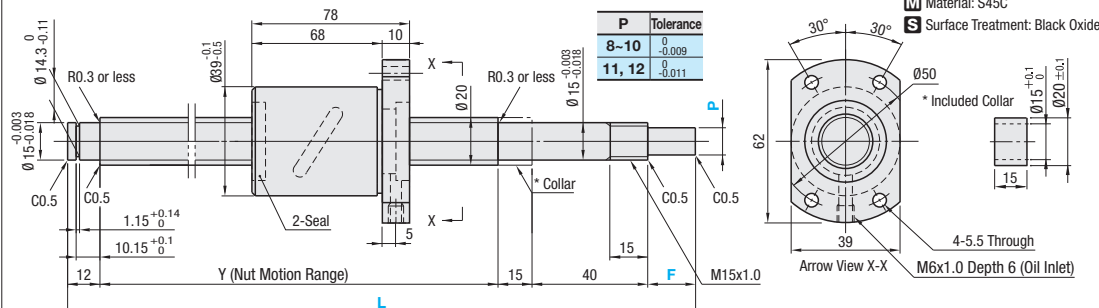
BSST, BOSSR(K), BSSZ(K)2005



BSST, BSSR(K), BSSZ(K)2010



BSST, BSSR(K), BSSZ(K)2020



Nut Type	Accuracy Grade	Part Number		1mm Increment			Y	Ball Dia.	Ball Center Dia.	Screw Root Dia.	Number of Circuits	Basic Load Rating		Axial Play	Twisting Direction
		Type	Screw Shaft O.D.	L	*F	*P						C (Dynamic) kN	Co (Static) kN		
Standard Nut	C7	BSST	20	05	200-1200	20	12	L-87	3.175	20.8	(17.5)	2.5 turns 1 row	6.2	14.7	0.03 or Less
	C10	BSST	20	10	250-2000	20	12	L- (67+F)	4.7625	21	(16.3)	2.5 turns 1 row	10.6	22.7	0.10 or Less
	C7	BSST	20	10	250-2000	20	12	L-87	3.175	20.8	(17.5)	2.5 turns 1 row	6.2	14.7	0.05 or Less
	C10	BSST	20	10	250-2000	20	12	L- (67+F)	4.7625	21	(16.3)	2.5 turns 1 row	10.6	22.7	0.15 or Less
	C7	BSST	20	10	250-2000	20	12	L-87	3.175	20.8	(17.5)	2.5 turns 1 row	6.2	14.7	0.03 or Less
	C10	BSST	20	10	250-2000	20	12	L- (67+F)	4.7625	21	(16.3)	2.5 turns 1 row	10.6	22.7	0.10 or Less

Nut Type	Accuracy Grade	Part Number	Unit Price 1 ~ 4 pc(s).					
			L200~400	L401~600	L601~800	L801~1000	L1001~1200	L1201~1500
Standard Nut	C7	BSST2005						
	C10	BSSR2005						
		BSSZ2005						
	C7	BSST2010						
		BSSR2010						
	C10	BSSZ2010						
BSST2020								
C10	BSSR2020							
	BSSZ2020							

Ordering Example

Part Number	L	F	P
BSSZ2005	200		
BSSZK2010	370	F21	P10
BSSR2020L	370		(L Type Greased)
BSSR2010G	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.

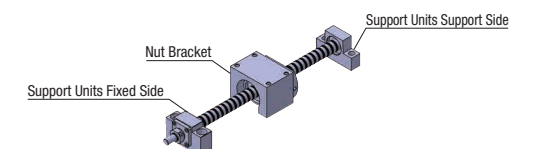
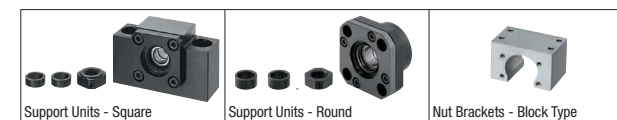
Alterations Example

Part Number	L	F	P	(FC, KC-etc.)
BSSR2005	350			KC10

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	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. Q is selectable from 10, 12 and 15. G=1mm Increment Ordering Code: GC-Q10-G20 5≤G≤Ox3 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 13≤FC≤30 Y dimension is shortened.
Tapped Hole on Support Side Shaft End	MC	Adds a tapped hole on the support side shaft end. MC=1mm Increment Ordering Code: MC25 M z M6x1.0 15 21≤MC≤30 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.
Keyway on Fixed Side Shaft End Detailed Keyway Dimensions P.684	KC	Adds a keyway on the fixed side shaft end. KC=1mm Increment Ordering Code: KC15 4≤KC≤Px3 KC≤F-1
Keyway on Fixed Side Shaft End	KLC	Adds a keyway at a customer specified area on the fixed side shaft end. (Keyway dim. is same as KC.) K, S=1mm Increment Ordering Code: KLC-K7-S2 5≤K+S≤Px3 K+S≤F-1
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: SWC10 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.

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	Page
BSST BSSR BSSZ	20	05	10	BRW 15	P.767
				BUR 15	P.768
	20	10	20	BSW 15	P.761
				BUN 15	P.762

Combination with Nut Brackets

Ball Screw Part Number	Recommended Nut Bracket			
	Type	Screw Shaft O.D.	Lead	Page
BSST BSSR BSSZ	20	05	BNFB 2005R	P.780
			BNFM 2010R	P.780
	20	10	BNFR 2020R	P.780
			BNFA 2020R	P.780

Other than the part numbers shown above, a wide 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)