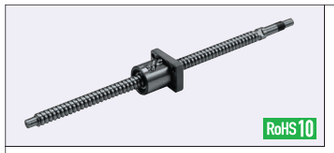
For **Pricing** and **Days to Ship**,Please Configure Online.

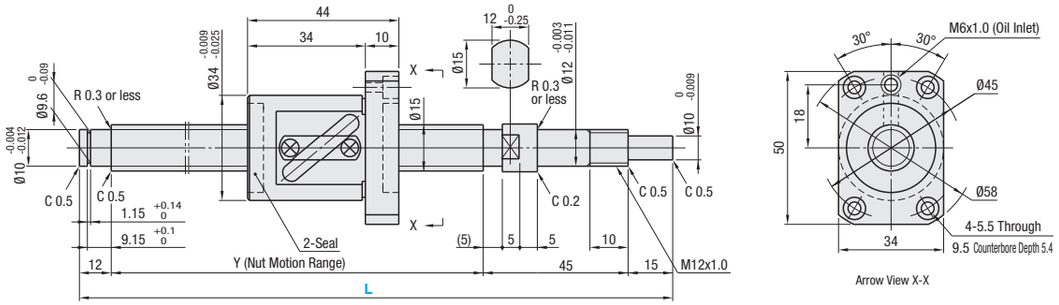
Precision Ball Screws Standard Nut - Shaft Diameter 15: Lead 5, 10, 20

Accuracy Grade C3, C5, C7

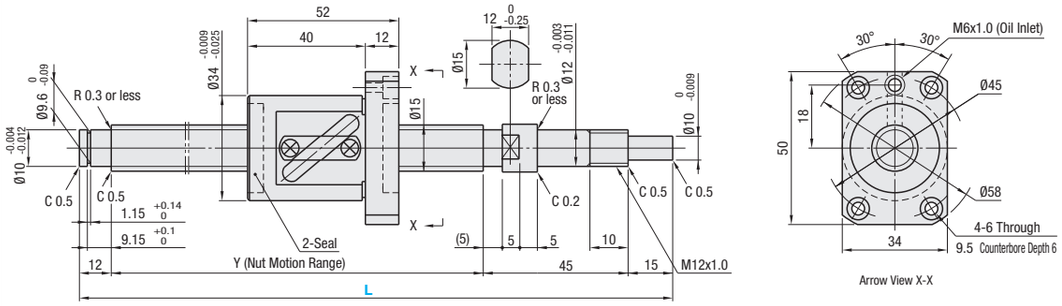


Nut Type	Type	Accuracy Grade	Shaft Dia.	Lead	Screw Shaft		Nut	
					M Material	H Hardness	M Material	H Hardness
Standard Nut	BSX	C3	15	5	4150 Alloy Steel	Induction Hardened 58~62HRC	JIS SCM420	Carburized 58~62HRC
	BSS	C5		5, 10, 20				
	BSSE	C7						

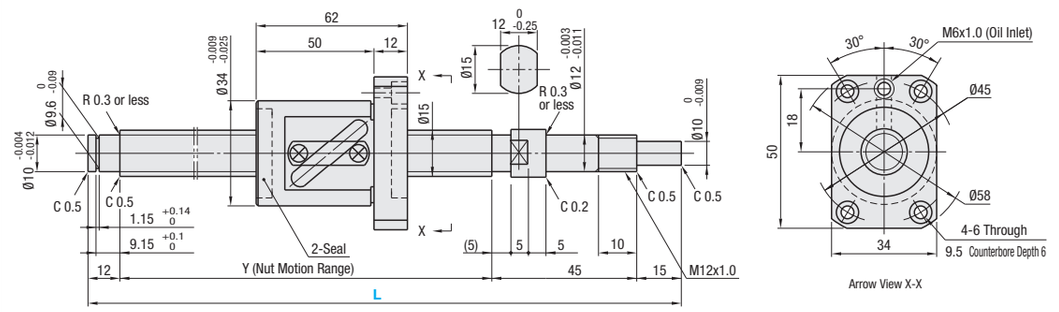
BSX/BSS/BSSE1505



BSS/BSSE1510



BSS/BSSE1520



Nut Type	Accuracy Grade	Part Number Type	Part Number Screw Shaft O.D.	Part Number Lead	1mm Increment L	Y	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	Preload Torque N·cm	Twisting Direction
Standard Nut	C3	BSX	15	05	150~590	L-72	3.175	15.8	(12.5)	2.5 turns, 1 row	4.34	6.25	0 (Preloaded)	1.5~6.0	Right
	C5	BSS			150~1095						6.9	12.5	0.005 or Less	2.0 or Less	
	C7	BSSE											0.030 or Less	-	
	C5	BSS		10	200~1095	L-72				1.5 turns, 1 row	4.4	7.9	0.005 or Less	3.0 or Less	
	C7	BSSE			200~1095								0.030 or Less	-	
	C5	BSS		20	230~1095	L-72							0.005 or Less	3.0 or Less	
	C7	BSSE											0.030 or Less	-	

Kgf=Nx0.101972

Price **Configure Online**

Accuracy Grade	Part Number	Unit Price 1 ~ 4 pc(s). L150 ~199	L200	L201 ~229	L230 ~299	L300 ~390	L391 ~400	L401 ~590	L591 ~595	L596 ~600	L601 ~800	L801 ~895	L896 ~900	L901 ~1000	L1001 ~1095
C3	BSX1505								-	-	-	-	-	-	-
C5	BSS1505														
C7	BSSE1505														
C5	BSS1510	-													
C7	BSSE1510	-													
C5	BSS1520	-	-	-											
C7	BSSE1520	-	-	-											

For orders larger than indicated quantity, please request a quotation.

Ordering Example

Part Number	-	L
BSX1505	-	300
BSSE1510L	-	420 (L Type Greased)
BSSE1510G	-	420 (G Type Greased)

Days to Ship **Configure Online**

Notes

- Filled with lithium soap based grease (Alvania Grease S2 made by Showa Shell Sekiyu K.K).
- Cautions: Do not let nuts overrun its stroke or remove nuts from screw shafts.
  It may cause balls to fall out or damage ball recirculation parts.
- Various grease options are available. For specifications P.612 ⊗BSX is not applicable.
- For accuracy of Ball Screws, see P.612, P.614.
- For details of Support Units, see P. 653~P.668.

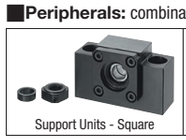
Alterations

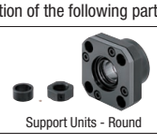
Part Number	-	L	-	(FC, KC, etc.)
BSS1505	-	350	-	KC10

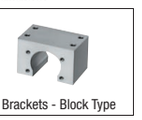
Alterations	Code	Spec.	Price Adder
No Machining on Support Side Shaft End	NC	No machining added on the support side shaft end. Ordering Code NC	
Ball Nut Orientation Reversed (Support Side) (Fixed Side) Standard / Change	RLC	Changes the nut direction. Ordering Code RLC	
No Retaining Ring Groove on Support Side Shaft End	RNC	Retaining ring groove in not machined on the support side shaft end. Ordering Code RNC Combination with FC is not available.	
Change Support Side Shaft End Length (9.15, FC)	FC	Changes the length of the support side shaft end. FC=1mm Increment Ordering Code FC20 13≤FC≤30 Y dimension is shortened.	
Change Support Side Shaft End Machining (Qh7, G)	GC	Changes the machining on the support side. Q is selectable from 8, 10, 12 G=1mm Increment Ordering Code GC-Q8-G20 5≤G≤Q×3 Y dimension is shortened.	

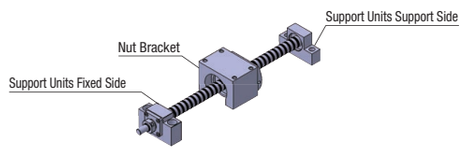
Alterations	Code	Spec.	Price Adder
Tapped Hole on Support Side Shaft End (9.15, MC)	MC	Adds a tapped hole on the support side shaft end. MC=1mm Increment Ordering Code MC20 (M: M5×0.8, ℓ: 12) Y dimension is shortened. 18≤MC≤30	
Keyway on Fixed Side Shaft End Detailed Keyway Dimensions P.614 (KC)	KC	Adds a keyway on the fixed side shaft end. KC=1mm Increment Ordering Code KC10 3≤KC≤14	
Keyway on Fixed Side Shaft End (K, S)	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-K5-S3 4≤K+S≤14	
Flat Machined on Fixed Side Shaft End (SC, 0.5)	SC	Adds a flat on the fixed side shaft end. SC=1mm Increment Ordering Code SC7 5≤SC≤14	
2 Flats Machined on Fixed Side Shaft End (SWC, SGC, SWC/SGC, 0.5)	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≤14	

Peripherals: combination of the following parts are available.


Support Units - Square


Support Units - Round


Nut Brackets - Block Type



Combination with Support Units

Ball Screw Part Number Type	Screw Shaft O.D.	Lead	Recommended Support Unit Part Number Type	Part Number No.	Shape	Fixed Side	Support Side	Page
BSX BSS BSSE	15	05 10 20	BRW	12	Round	○		P.665
			BUR	12			○	P.667
			BSW	12	Square	○		P.659
			BUN	12			○	P.663

Other than the part numbers shown above, a variety of Support Units are also available. (P.653~P.668)

Combination with Nut Brackets

Ball Screw Part Number Type	Screw Shaft O.D.	Lead	Recommended Nut Bracket Part Number Type	Part Number No.	Page
BSX BSS BSSE	15	05	BNFB BNFM BNFR BNFA	1505S	P.670
		10		1510S	P.670
		20		1520S	P.670

Other than the part numbers shown above, a variety of Nut Brackets are also available. (P.670)