

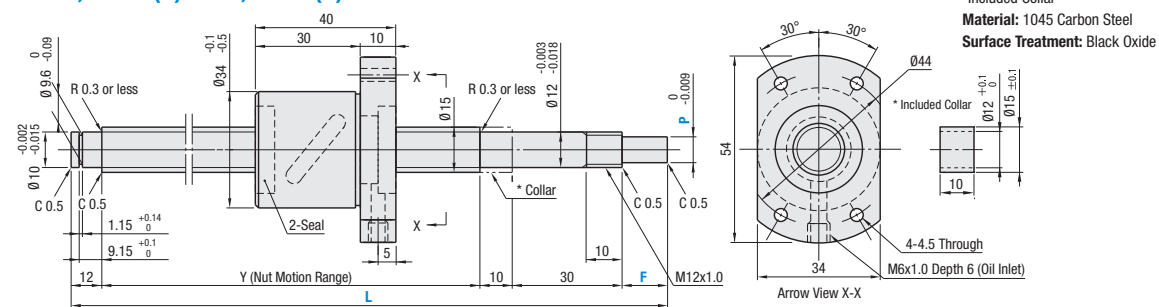
Rolled Ball Screws Standard Nut (Shaft Diameter 15, Lead 5, 10, 20)

Accuracy Grade C7, C10

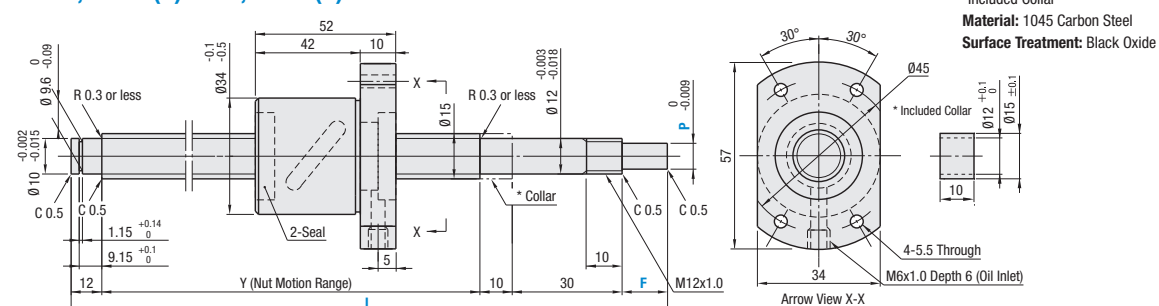


Nut Type	Type		Accuracy Grade	Shaft Diameter	Lead	Screw Shaft			Nut		
	Standard	F, P Configurable				Material	Hardness	Surface Treatment	Material	Hardness	Surface Treatment
Standard Nut	BSST	—	C7	15	5, 10, 20	1055 Carbon Steel	Induction Hardened 56-62 HRC min.	Phosphate Conversion Coating	JIS SCM420	Carburized 58-62 HRC min.	Ⓢ Phosphate Conversion Coating
	BSSR	BSSRK	C10								Low Temp. Black Chrome
	BSSZ	BSSZK									

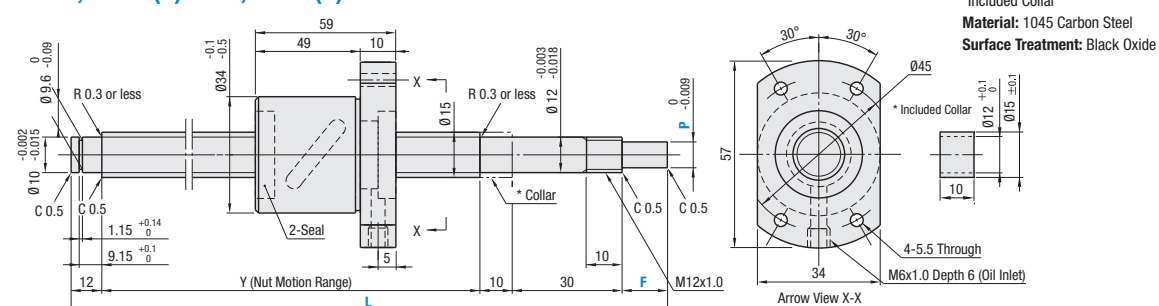
BSST1505, BSSR (K) 1505, BSSZ (K) 1505



BSST1510, BSSR (K) 1510, BSSZ (K) 1510



BSST1520, BSSR (K) 1520, BSSZ (K) 1520



Nut Type	Accuracy Grade	Part Number		1 mm 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	15	05	150-1200	15	10	L-67	3.175	15.8	(12.5)	2.5 turns, 1 row	5.1	10.5	0.03 or Less	Right
						BSSR										
	C10	BSST	15	05	150-1200	15-30	6-10	L-(52+F)								
						BSSR										
	C7	BSST	15	10	200-1200	15	10	L-67								
						BSSR										
	C10	BSST	15	10	200-1200	15-30	6-10	L-(52+F)								
						BSSR										
	C7	BSST	15	20	200-1200	15	10	L-67								
						BSSR										
	C10	BSST	15	20	200-1200	15-30	6-10	L-(52+F)								
						BSSR										

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

Rolled Ball Screws Standard Nut (Shaft Diameter 15, Lead 5, 10, 20)

Accuracy Grade C7, C10, continued

Part Number Example

Part Number - L - F - P

BSSTK1510 - 370 - F20 - P8

BSSR1520L - 370 L Type Greased

BSSR1505G - 370 G Type Greased

- Note:**
- Ⓢ 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 specifications, P.752.
 - Ⓢ For accuracy of Ball Screws, see P.752-754.
 - Ⓢ For details of Support Units, see P.792-802.
 - Ⓢ Caution: Do not remove any nuts from their screw shafts or allow nuts to overrun the stroke. It may cause the balls to fall out or damage the ball recirculation parts.
 - Ⓢ Included Collar is packaged together with main body of Ball Screws. Store this Included Collar with care. It is required when mating with Support Units.
 - Ⓢ Do not tilt the ball screw assembly. Due to its weight, the nut may rotate off of the shaft.

Part Number Alterations

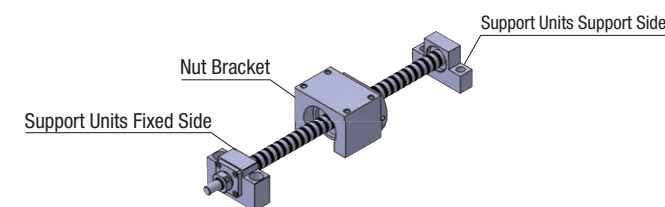
Part Number - L - F - P - (FC, KC, etc.)

BSSR1505 - 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	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 = 1 mm Increment Ordering Code: FC20 Ⓢ 13≤FC≤30 Ⓢ Y dimension is shortened.
Change Support Side Shaft End Machining	GC	Changes the machining on the support side. Q is selectable from 8, 10, 12 G = 1 mm Increment Ordering Code: GC-Q8-G20 Ⓢ 5≤G≤Qx3 Ⓢ Y dimension is shortened.
Tapped Hole on Support Side Shaft End	MC	Adds a tapped hole on the support side shaft end. MC = 1 mm Increment Ordering Code: MC20

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, See P.752.	KC	Adds a keyway on the fixed side shaft end. Ⓢ P=5 is not applicable. KC = 1 mm Increment Ordering Code: KC10 Ⓢ 3≤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. (Key groove dim. is the same as KC.) Ⓢ P = 5 is not applicable. K, S = 1 mm Increment Ordering Code: KLC-K5-S2 Ⓢ 4K+S≤Px3 K+S≤F-1
Flat Machined on Fixed Side Shaft End	SC	Adds a flat on the fixed side shaft end. SC = 1 mm Increment Ordering Code: SC10 Ⓢ 5≤SC≤Px3 SC≤F-1
2 Flat Machined on Fixed Side Shaft End	SWC, SGC	Adds two flats on the fixed side shaft end. SWC: 90° Position SGC: 120° Position 1 mm Increment Ordering Code: SWC10 Ⓢ 5≤SWC, SGC≤Px3 SWC, SGC≤F-1
Installing Special Temporary Shaft	TAS	Special Temporary Shaft used for installing Ball Screw Nut. Always use Special Temporary Shaft when removing or installing Ball Screw Nut.

Peripherals: Combination of the following parts are available.



Combination with Support Units

Type	Screw Shaft Outer Diameter	Lead	Recommended Support Units				
			Part Number	Shape	Fixed Side	Support Side	
BSST BSSR BSSZ	15	05 10 20	BRW 12	Round	○	—	800
			BUR 12		—	○	802
			BSW 12	Square Type	○	—	794
			BUN 12		—	○	798

Ⓢ Aside from the part numbers shown above, there are a variety of other Support Units available. (792-802).

Combination with Nut Brackets

Type	Screw Shaft O.D.	Lead	Recommended Nut Brackets		
			Part Number	Type	Page
BSST BSSR BSSZ	15	05 10 20	BNFB	1505R	810
			BNFM		
			BNFR	1510R	810
			BNFA		