

Rolled Ball Screws Standard Nut - Shaft Dia. 15; Lead 5, 10, 20

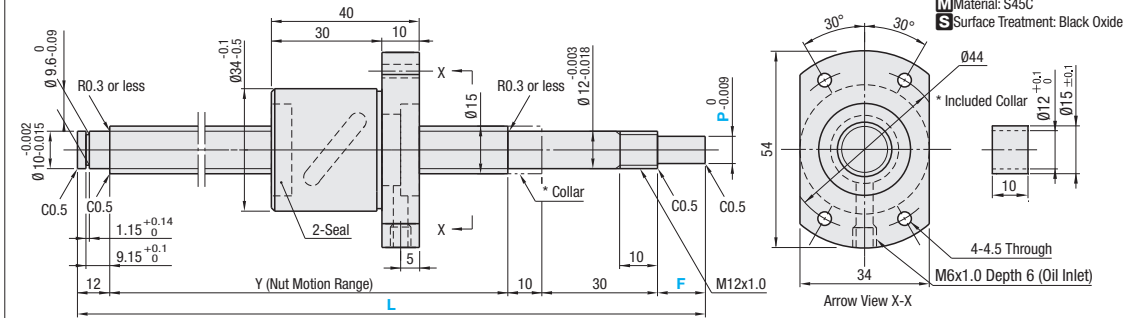
Accuracy Grade C7, C10

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

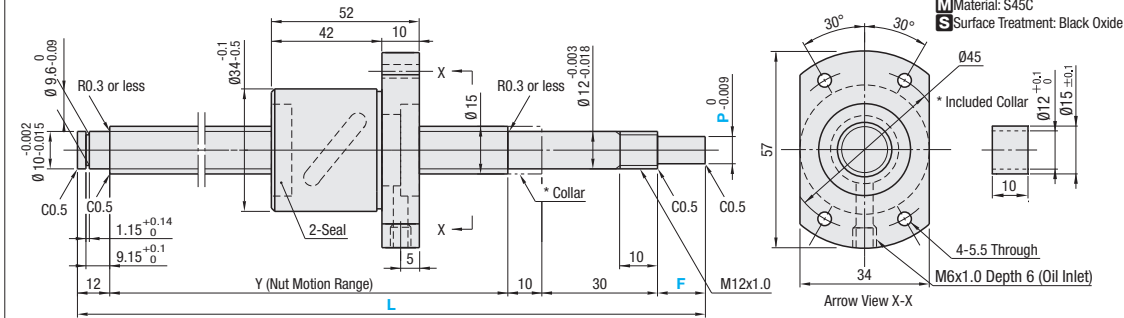


Nut Type	Type		Accuracy Grade	Shaft Dia.	Lead	Screw Shaft			Nut		
	Standard	F, P Configurable				Material	Hardness	Surface Treatment	Material	Hardness	Surface Treatment
Standard Nut	BSSZ	-	C7	15	5, 10, 20	S55C	Induction Hardened 56-62HRC	Phosphate Conversion Coating	SCM420	Carburized 50-62HRC	Phosphate Conversion Coating
	BSSR	BSSRK	C10	15	5, 10, 20	S55C	Induction Hardened 56-62HRC	Phosphate Conversion Coating	SCM420	Carburized 50-62HRC	Low Temperature Black Chrome
	BSSZ	BSSZK	C7	15	5, 10, 20	S55C	Induction Hardened 56-62HRC	Phosphate Conversion Coating	SCM420	Carburized 50-62HRC	Low Temperature Black Chrome
	BSSZ	BSSZK	C10	15	5, 10, 20	S55C	Induction Hardened 56-62HRC	Phosphate Conversion Coating	SCM420	Carburized 50-62HRC	Low Temperature Black Chrome

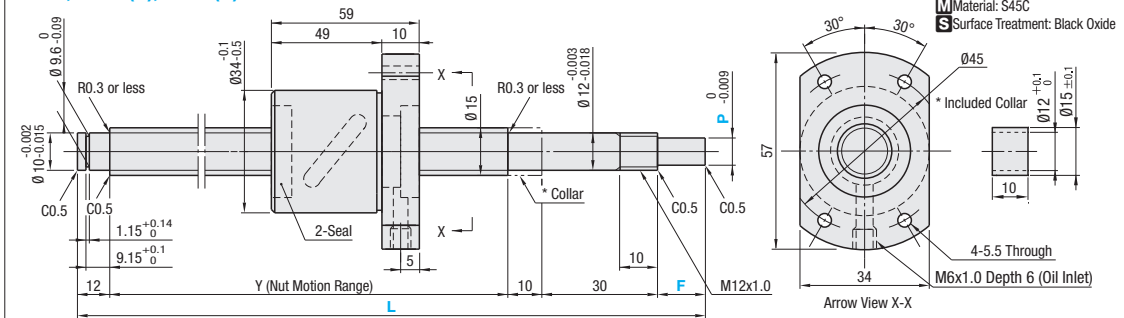
BSSZ, BSSR(K), BSSZ(K)1505



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



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



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	BSSZ	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								
						15-30	6-10									L-(52+F)							
		BSSR BSSZK	10	200-1200	15	10	L-67																
					15-30	6-10	L-(52+F)																
		BSSZ	15	05	150-1200	15	10									L-67							
						15-30	6-10									L-(52+F)							
	BSSR BSSZK	10	200-1200	15	10	L-67																	
				15-30	6-10	L-(52+F)																	
	C10	C10	BSSZ	15	05	150-1200	15	10								L-67	3.175	15.8	(12.5)	1.5 turns, 2 rows	5.8	13.3	0.10 or Less
							15-30	6-10								L-(52+F)							
			BSSR BSSZK	10	200-1200	15	10	L-67															
						15-30	6-10	L-(52+F)															
BSSZ			15	05	150-1200	15	10	L-67															
						15-30	6-10	L-(52+F)															
BSSR BSSZK	10	200-1200	15	10	L-67																		
			15-30	6-10	L-(52+F)																		

* 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).					
			L150-200	L201-400	L401-600	L601-800	L801-900	L901-1200
Standard Nut	C7	BSSZ1505						
	C10	BSSR1505						
		BSSZ1505						
	C7	BSSZ1510						
		BSSR1510						
	C10	BSSZ1510						
C7	BSSZ1520							
	BSSR1520							
C10	BSSZ1520							

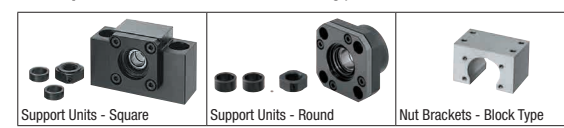
Ordering Example
 Part Number - L - F - P
 BSSZ1505 - 200
 BSSZ1510 - 370 - F20 - P8
 BSSR1520L - 370 (L Type Greased)
 BSSR1505G - 370 (G Type Greased)

Notes

- Mounting surface of BSSZ 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 P686
- For accuracy of Ball Screws, see P2223 and P2224.
- For details of Support Units, see P753 ~ P778.
- 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 "X" 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	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 Length	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	GC	Changes the machining on the support side. Q is selectable from 8, 10 and 12. G=1mm 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=1mm Increment Ordering Code MC20 M 1.2 MS=0.8 12 18=MC=30 Y dimension is shortened.

Peripherals: Combination of the following parts is available.



Combination with Support Units

Type	Screw Shaft O.D.	Lead	Recommended Support Unit				
			Part Number Type No.	Shape	Fixed Side	Support Side	
BSSZ BSSR BSSZ	15	05 10 20	BRW 12	Round	○	○	P.767
			BUR 12	Round	○	○	P.768
			BSW 12	Square	○	○	P.761
			BUN 12	Square	○	○	P.762

Other than the part numbers shown above, a wide variety of Support Units are also available. (P761~P778)

Combination with Nut Brackets

Type	Screw Shaft O.D.	Lead	Recommended Nut Bracket	
			Part Number Type No.	Page
BSSZ BSSR BSSZ	15	05 10 20	BNFB 1505R	P.780
			BNFR 1510R	P.780
			BNFA 1520S	P.780

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

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 P684)	KC	Adds a keyway on the fixed side shaft end. KC=1mm 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. (Keyway dim. is same as KC.) K, S=1mm Increment Ordering Code KLC-K5-S3 4≤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 SC10 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 P685.

