

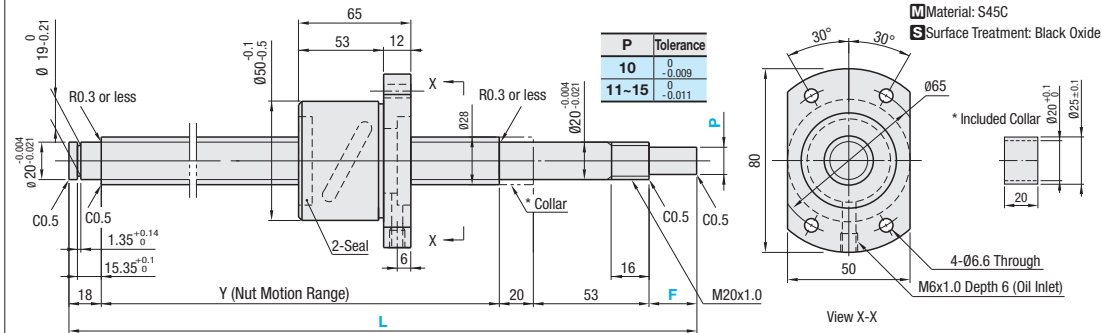
# Rolled Ball Screws Standard Nut - Shaft Dia. 28, 32; Lead 6, 10, 32

Accuracy Grade C7, C10

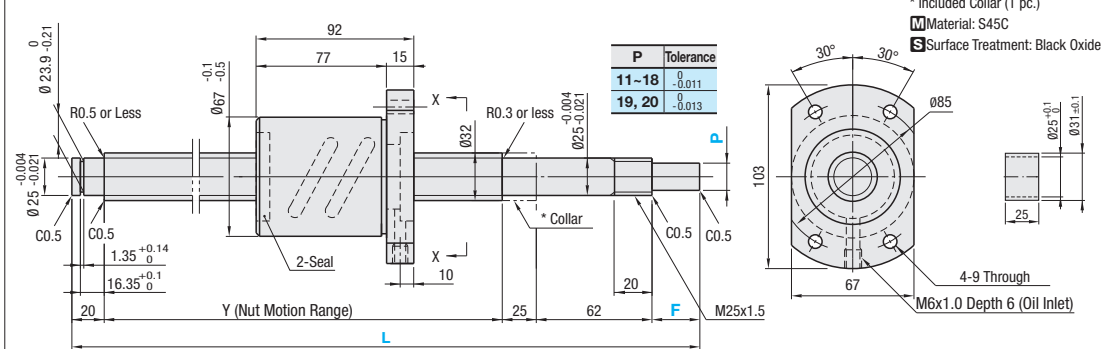


Nut Type	Type		Accuracy Grade	Shaft Dia.	Lead	Screw Shaft			Nut		
	Standard	F, P Configurable				Material	Hardness	Surface Treatment	Material	Hardness	Surface Treatment
Standard Nut	BSSR	BSSRK	C10	28, 32	6, 10, 32	S55C	Induction Hardened 58-62HRC	Phosphate Conversion Coating	SCM420	Carburized 58-62HRC	Low Temperature Black Chrome
	BSSZ	BSSZK									

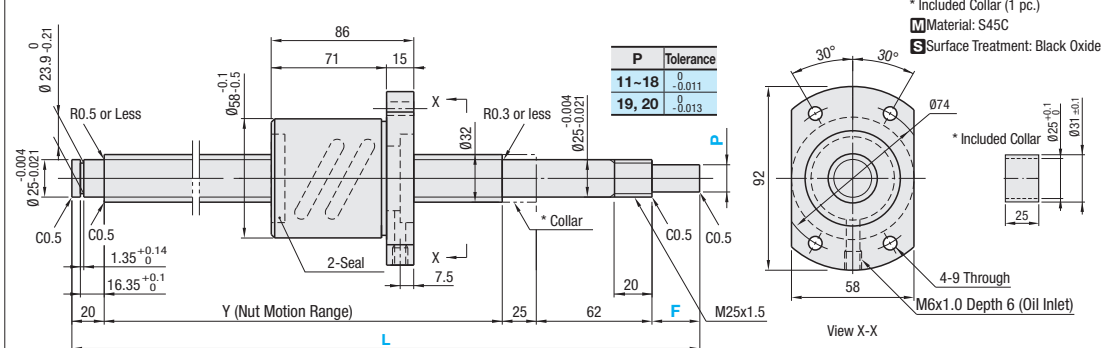
## BSSR(K), BSSZ(K)2806



## BSSR(K), BSSZ(K)3210



## BSSR(K), BSSZ(K)3232



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) kN	Axial Play	Twisting Direction					
		Type	Screw Shaft O.D.	L	*F									*P				
Standard Nut	C10	BSSR	28	06	250-2000	27	3.175	28.8	(25.6)	2.5 turns, 2 rows	12.1	42.3	0.10 or Less					
		BSSZ				15								L-118				
		BSSRK				27-45								10-15	L-(91+F)			
		BSSZK				33								20	L-140			
		BSSR				32								10	300-2000	33-60	11-20	L-(107+F)
		BSSZ														33	20	L-140
		BSSRK	33-60	11-20	L-(107+F)													
		BSSZK	33	20	L-140													
		BSSR	32	32	300-2000		33-60	11-20	L-(107+F)									
		BSSZ					33	20	L-140									
		BSSRK				33-60	11-20	L-(107+F)										
		BSSZK				33	20	L-140										

\* 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).						
			L250-299	L300-400	L401-600	L601-800	L801-1000	L1001-1200	L1201-1500
Standard Nut	C10	BSSR2806							
		BSSZ2806							
		BSSR3210	-						
		BSSZ3210	-						
		BSSR3232	-						

Ordering Example

Part Number	-	L	-	F	-	P
BSSR2806	-	270				
BSSZ3232	-	270	-	F40	-	P15
BSSR3210L	-	370				(L Type Greased)
BSSR3232G	-	370				(G Type Greased)

### Notes

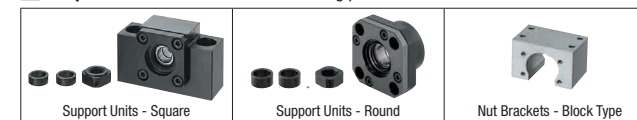
- Filled with lithium soap based grease (Alvania Grease S2 made by Showa Shell Sekiyu K.K).
- Various grease options are available. For price and specifications, see P.686
- For accuracy of Ball Screws, see P.2223 and P.2224.
- For details of Support Units, see P.753 ~ P.778.
- Caution: Do not let the 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

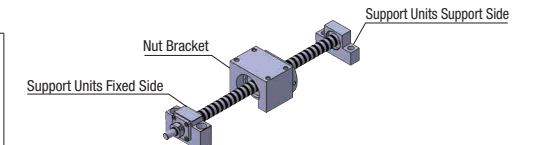
Part Number	-	L	-	F	-	P	-	(FC, MC... etc.)
BSSZ2806	-	700						RLC

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, 15, 20 and 25. G=1mm Increment Ordering Code: GC-Q10-G20 5≤G≤Qx3. 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 19≤FC≤60 (BS□□2806) 21≤FC≤60 (BS□□3210, 3232) 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: MC40 M8x1.25 20 28≤MC≤60 Y dimension is shortened.

Peripherals: Combination of the following parts is available.



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	KC	Adds a keyway on the fixed side shaft end. KC=1mm Increment Ordering Code: KC20 5≤KC≤Px3 KC≤F-1(BS□□2806) 6≤KC≤Px3 KC≤F-1(BS□□3210, 3232)
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-K20-S3 6≤K+S≤Px3 K+S≤F-1(BS□□2806) 7≤K+S≤Px3 K+S≤F-1(BS□□3210, 3232)
Flat Machined on Fixed Side Shaft End	SC	Adds a flat on the fixed side shaft end. SC=1mm Increment Ordering Code: SC20 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: SWC20 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.



### Combination with Support Units

Ball Screw Part Number	Type	Screw Shaft O.D.	Lead	Recommended Support Unit							
				Part Number	Shape	Fixed Side	Support Side				
BSSR BSSZ	28	06	06	BRW 20	Round	○	○	P.767			
				BUR 20				P.768			
				BSW 20				P.761			
				BUN 20				P.762			
				BRW 25				Square	○	○	P.767
				BUR 25							P.768
	BSW 25	P.761									
	BUN 25	P.762									

### Combination with Nut Brackets

Ball Screw Part Number	Type	Screw Shaft O.D.	Lead	Recommended Nut Bracket	
				Part Number	Page
BSSR BSSZ	Standard Nut	C10	06	BNFB	P.780
				BNFM	P.780
				BNFR	P.780
				BNFA	P.780

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

Other than the part numbers shown above, a wide variety of Support Units are also available. (P.761 - P.778)