

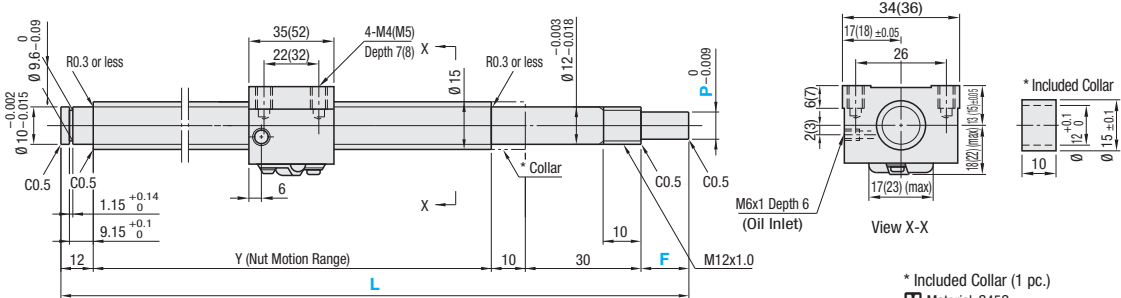
# Rolled Ball Screws Block Nut - Shaft Dia. 15, 20, 25; Lead 5, 10

Accuracy Grade C10

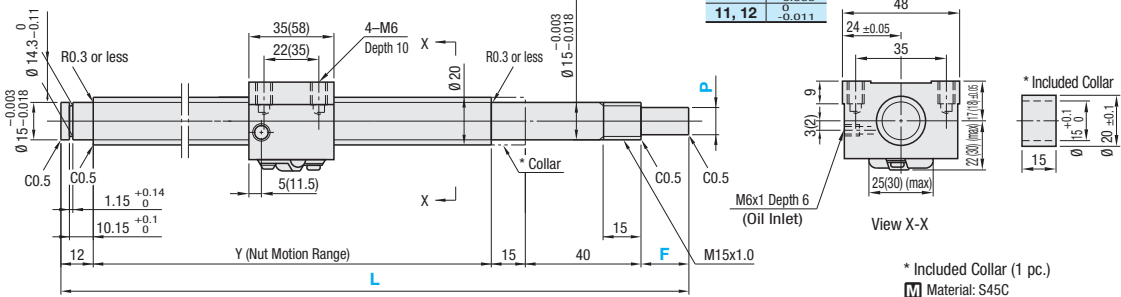


Nut Type	Type		Accuracy Grade	Shaft Dia.	Lead	Screw Shaft			Nut		
	Standard	F, P Configurable				Material	Hardness	Surface Treatment	Material	Hardness	Surface Treatment
Block Nut	BSBR	BSBRK	C10	15, 20, 25	5, 10	S55C	Induction Hardened S6-62HRC	Phosphate Conversion Coating	SCM420	Carburized S8-62HRC	Phosphate Conversion Coating

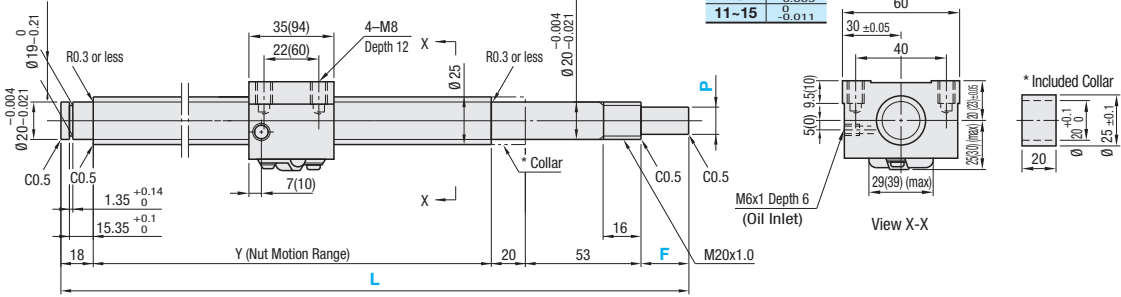
**BSBR(K) 1505, 1510**  
\* The dimensions in ( ) are for BSBR(K)1510.



**BSBR(K) 2005, 2010**  
\* The dimensions in ( ) are for BSBR(K)2010.



**BSBR(K) 2505, 2510**  
\* The dimensions in ( ) are for BSBR(K)2510.



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 Co (Static) kN	Axial Play	Twisting Direction	
		Type	Screw Shaft O.D.	Lead	L	*F									*P
Block Nut	C10	BSBR	15	05	150~1200	15	10	L-67	3.175	15.8	(12.5)	5.1	10.5	0.10 or Less	
						15~30	6~10	L-(52+F)							
						15	10	L-67							
						15~30	6~10	L-(52+F)							
						20	12	L-87							
						20~36	8~12	L-(67+F)							
		BSBRK	20	10	200~1200	20	12	L-87	4.7625	21	(16.3)	2.5 turns, 1 row	6.2	14.7	0.15 or Less
						20~36	8~12	L-(67+F)							
						20	12	L-87							
						20~36	8~12	L-(67+F)							
						27	15	L-118							
						27~45	10~15	L-(91+F)							
BSBR	25	05	200~1500	27	15	L-118	3.175	25.8	(21.8)	2.5 turns, 2 rows	27.5	76.3	0.20 or Less		
				27~45	10~15	L-(91+F)									
				27	15	L-118									
				27~45	10~15	L-(91+F)									

\* F and P are configurable for BSBRK only. \*F≤Px3 kgf=Nx0.101972

Nut Type	Accuracy Grade	Part Number	Unit Price 1 - 4 pc(s).					
			L150~199	L200~400	L401~600	L601~800	L801~1000	L1001~1200
Block Nut	C10	BSBR1505						
		BSBR1510						
		BSBR2005	-					
		BSBR2010	-					
		BSBR2505	-					

Ordering Example  
Part Number - L - F - P  
BSBR1505 - 200  
BSBRK2510 - 370 - F40 - P15

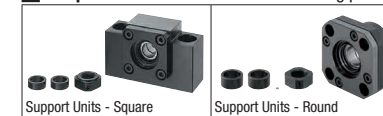
### Notes

- 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 "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 Part Number - L - F - P -FC, MC--etc.)  
BSBR2505 - 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 8, 10, 12 (BSBR15) □ Q is selectable from 10, 12, 15 (BSBR20) □ Q is selectable from 10, 12, 15, 20 (BSBR25) □ G=1mm Increment Ordering Code: GC-Q8-G20 *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 (BSBR15) □, 20 □ □ *19≤FC≤60 (BSBR25) □ □ *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 *18≤MC≤30 (BSBR15) □ □ *21≤MC≤30 (BSBR20) □ □ *28≤MC≤60 (BSBR25) □ □ *Y dimension is shortened.

Peripherals: Combination of the following parts is available.



Combination with Support Units

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

\*Other than the part numbers shown above, a wide variety of Support Units are also available. (P.753 - P.778)