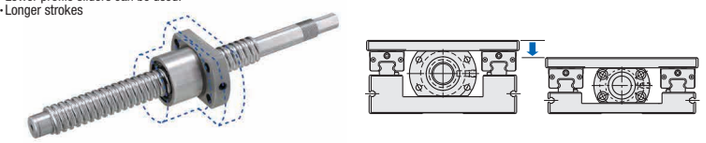
Rolled Ball Screws Compact Nut - Shaft Dia. 15; Lead 5, 10

Accuracy Grade C10

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

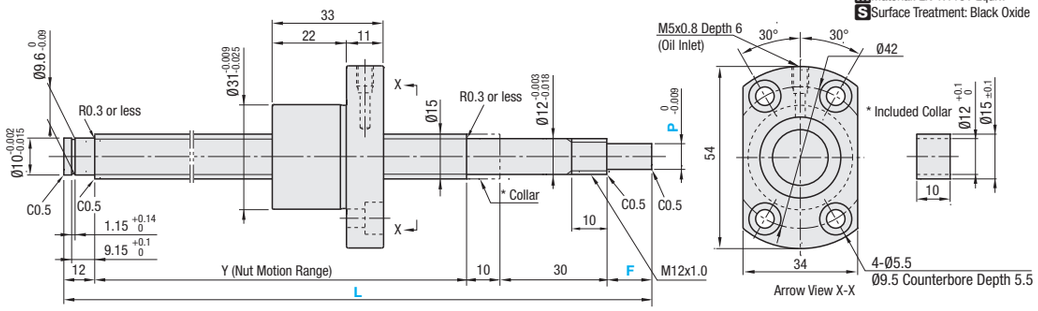
Nut Type	Type		Accuracy Grade	Shaft Dia.	Lead	Screw Shaft			Nut		
	Standard	F, P Configurable				M Material	H Hardness	S Surface Treatment	M Material	H Hardness	S Surface Treatment
Compact Nut	BSSC	BSSCK	C10	15	5, 10	EN 1.1203 Equiv.	Induction Hardened 56~62HRC	-	EN 1.7258 Equiv.	Carburized 58~62HRC	-

Features of Compact Nut
- Compact O.D.
- Lower profile sliders can be used.
- Longer strokes



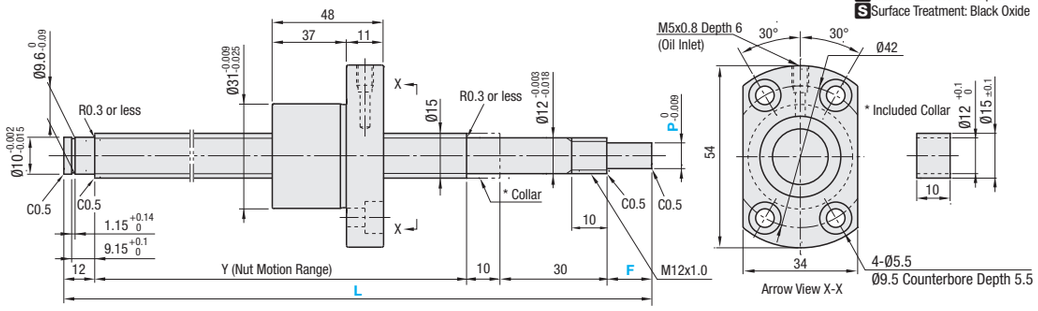
BSSC(K)1505

* Included Collar (1 pc.)
M Material: EN 1.1191 Equiv.
S Surface Treatment: Black Oxide



BSSC(K)1510

* Included Collar (1 pc.)
M Material: EN 1.1191 Equiv.
S Surface Treatment: Black Oxide



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.	Lead	L	*F	*P						C (Dynamic) kN	Co (Static) kN		
Compact Nut	C10	BSSC	15	05	150~1200	15	10	L-67	3.175	15.5	(12.25)	3 turns, 1 row	4.14	7.06	0.10 or Less	Right
		BSSCK				15~30	6~10	L- (52+F)								
		BSSC		10	200~1200	15	10	L-67					4.25	7.45		
		BSSCK				15~30	6~10	L- (52+F)								

* F and P are configurable for BSSCK 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
Compact Nut	C10	BSSC1505						
		BSSC1510						

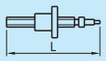
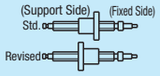
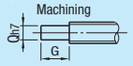
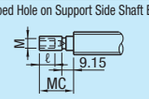
Ordering Example

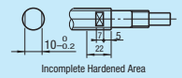
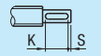
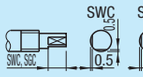
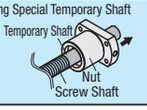
Part Number	-	L	-	F	-	P
BSSC1505	-	300				
BSSCK1505	-	300	-	F15	-	P6

■Notes
- Filled with lithium soap based grease (Alvania Grease S2 made by Showa Shell Sekiyu K.K).
- For accuracy of Ball Screws, see **P.2223** and **P.2224**.
- For details of Support Units, see **P.753 ~ P.778**.
- Cautions: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

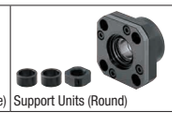
Part Number	-	L	-	F	-	P	-	(FC, KC···etc.)
BSSC1204	-	270					-	SC7

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	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 and 12. G=1mm Increment Ordering Code GC-Q8-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 EN-JL 1030 Equiv. 13≤FC≤30 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: M5×0.8, ℓ: 12) Ydimension is shortened. 18≤MC≤30

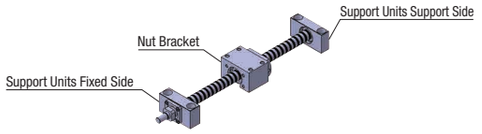
Alterations	Code	Spec.
Wrench Flats on Fixed Side 	SZC	Adds wrench flats on the fixed side shaft end. Ordering Code SZC Ball bearings will fall out if the ball nut crosses the wrench flats.
Keyway on Fixed Side Shaft End Detailed Keyway Dimensions P.684 	KC	Adds a keyway on the fixed side shaft end. P=5 is not applicable. 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.) P=5 is not applicable. K, S=1mm Increment Ordering Code KLC-K5-S2 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 SC7 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. JIS-SWC: 90° Position SGC: 120° Position 1mm Increment Ordering Code SWC7 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.**

■Peripherals: Combination of the following parts is available.


Support Units (Square, Low Profile)


Support Units (Round)


Nut Brackets (Block Type)



■Combination with Support Units

Ball Screw Part Number			Recommended Support Unit					
Type	Screw Shaft O.D.	Lead	Part Number Type	Part Number No.	Shape	Fixed Side	Support Side	Page
BSSC	15	05 10	BSV	12	Square	○		P.771
			BUV	12	Low Profile		○	P.772
			BRW	12	Round	○		P.767
			BUR	12			○	P.768

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

■Combination with Nut Brackets

Ball Screw Part Number			Recommended Nut Bracket		
Type	Screw Shaft O.D.	Lead	Part Number Type	Part Number No.	Page
BSSC	15	05	BNFB BNFM	1505C	P.780
		10	BNFR BNFA	1510C	P.780

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

■ Lower profile linear units can be designed by using in combination with Support Units Low Profile Type.