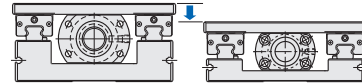📍 **Points of comparison between similar products** | **Consider using this product if the usage environment is a high-load, and high-frequency drive application.**
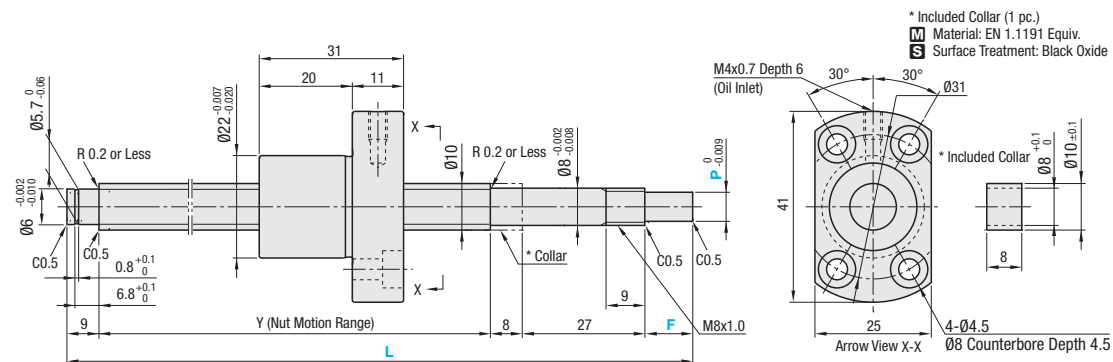

Nut Type	Type		Accuracy Grade	Shaft Dia.	Lead	Screw Shaft			Nut		
	Standard	F, P Configurable				M Material	H Hardness	S Surface Treatment	M Material	H Hardness	S Surface Treatment
Compact Nut	BSSC	BSSCK	C10	10	4	EN 1.1203 Equiv.	Induction Hardened 56~62HRC	-	EN 1.7258 Equiv.	Carburized 58~62HRC	-

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

BSSC (K) 1004

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

M4x0.7 Depth 6 (Oil Inlet)
* Included Collar
Arrow View X-X
Ø8 Counterbore Depth 4.5

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	10	04	150~600	10	6	L-54	2	10.25	(8.4)	3 turns, 1 row	1.87	3.0	0.05 or Less	Right
		BSSCK				10~18	5, 6	L-(44+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).		
			L100~200	L201~400	L401~600
Compact Nut	C10	BSSC1004			

📞 **Ordering Example**

Part Number	-	L	-	F	-	P
BSSC1004	-	200				
BSSCK1004	-	200	-	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.
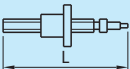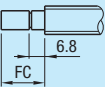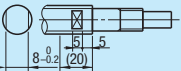📍Use the "* collar" position in the diagram for the accessory collar. Use one of the support unit accessory collars on the fastening nut side.
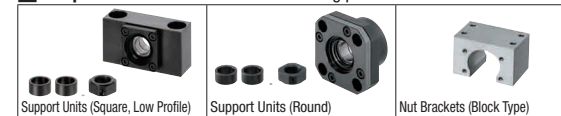📍Do not tilt the ball screw assembly since the nut may spin off from the shaft due to its own weight.

Alterations

Part Number	-	L	-	F	-	P	-	(FC, SC···etc.)
BSSC0802	-	270	-				-	SC5

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) Std. Revised	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=1mm Increment Ordering Code EN-JL 1030 Equiv. 📍11≤FC≤20 📍Y dimension is shortened.
Wrench Flats on Fixed Side Incomplete Hardened Area	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.

Alterations	Code	Spec.
Keyway on Fixed Side Shaft End	KC	Adds a keyway on the fixed side shaft end. ⊗ P=5 is not applicable. KC=1mm Increment Ordering Code KC5 📍2≤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 📍3≤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 Temporary Shaft Nut Screw 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**.

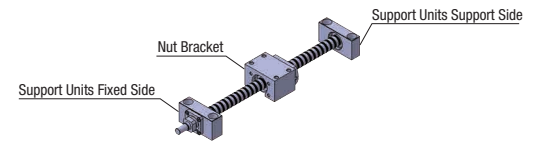■**Peripherals:** Combination of the following parts is available.

Support Units (Square, Low Profile)   Support Units (Round)   Nut Brackets (Block Type)

Support Units Support Side
Nut Bracket
Support Units Fixed Side

■**Combination with Support Units**

Ball Screw Part Number			Recommended Support Unit					
Type	Screw Shaft O.D.	Lead	Part Number		Shape	Fixed Side	Support Side	Page
			Type	No.				
BSSC	10	04	BSV	8S	Square Low Profile	○		P.771
			BUV	8			○	P.772
			BRW	8S	Round	○		P.767
			BUR	6			○	P.768

📍Other than the part numbers shown above, a wide 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		Page
			Type	No.	
BSSC	10	04	BNFB	1004C	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**)

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

Height 3mm Lower Profile

31mm   34mm
<Low Profile Type>   <Standard>