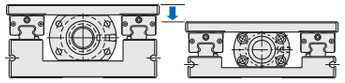
Rolled Ball Screws Compact Nut - Shaft Dia. 8, Lead 2

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.**

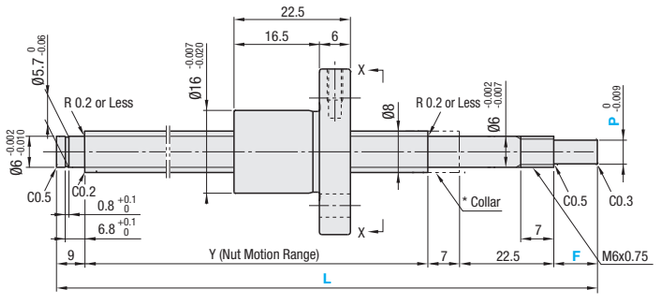
Nut Type	Type: Standard	Type: F, P Configurable	Accuracy Grade	Shaft Dia.	Lead	Screw Shaft: M Material	Screw Shaft: H Hardness	Screw Shaft: S Surface Treatment	Nut: M Material	Nut: H Hardness	Nut: S Surface Treatment
Compact Nut	BSSC	BSSCK	C10	8	2	EN 1.1203 Equiv.	Induction Hardened 56~62HRC	-	EN 1.7258 Equiv.	Carburized 58~62HRC	-

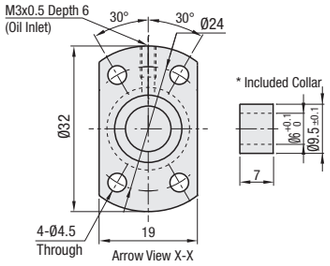
Features of Compact Nut
- Compact O.D.
- Lower profile sliders can be used.
- Longer strokes



BSSC (K) 0802

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





Nut Type	Accuracy Grade	Part Number: Type	Part Number: Screw Shaft O.D.	Part Number: Lead	1mm Increment: L	1mm Increment: *F	1mm Increment: *P	Y	Ball Dia.	Ball Center Dia.	Screw Root Dia.	Number of Circuits	Basic Load Rating: C (Dynamic) kN	Basic Load Rating: Co (Static) kN	Axial Play	Twisting Direction
Compact Nut	C10	BSSC	08	02	100~400	7.5	4.5	L-46	1.2	8.15	(7)	4 turns, 1 row	1.17	2.1	0.05 or Less	Right
		BSSCK				8~13	4, 4.5	L-(38.5+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
Compact Nut	C10	BSSC0802		

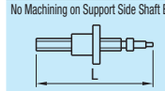
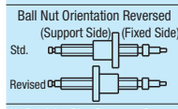
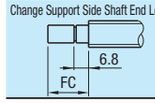
Ordering Example

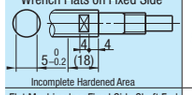
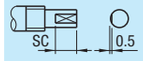
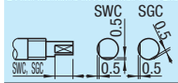
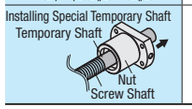
Part Number	-	L	-	F	-	P
BSSC0802	-	200				
BSSCK0802	-	200	-	F12	-	P4.5

■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.

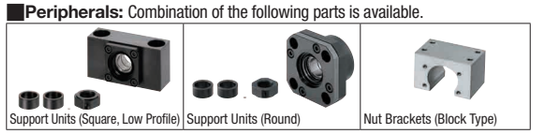
Alterations

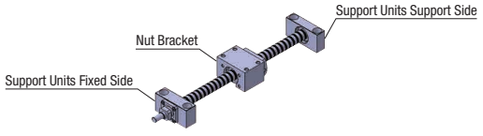
Part Number	-	L	-	F	-	P	-	(FC, SC···etc.)
BSSC0802	-	270					-	SC5

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. 10≤FC≤20. Y dimension is shortened.

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.
Flat Machined on Fixed Side Shaft End 	SC	Adds a flat on the fixed side shaft end. SC=1mm Increment. Ordering Code SC5. 5≤SC≤12 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 SWC6. 5≤SWC, SGC≤12 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: Type	Screw Shaft O.D.	Lead	Recommended Support Unit: Part Number Type	Part Number No.	Shape	Fixed Side	Support Side	Page
BSSC	08	02	BSV	6	Square Low Profile	○		P.771
			BUV	6			○	P.772
			BRW	6	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: Type	Screw Shaft O.D.	Lead	Recommended Nut Bracket: Part Number Type	Part Number No.	Page
BSSC	08	02	BNFB	802C	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.