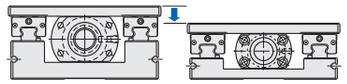
Rolled Ball Screws Compact Nut - Shaft Dia. 25; Lead 5

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.

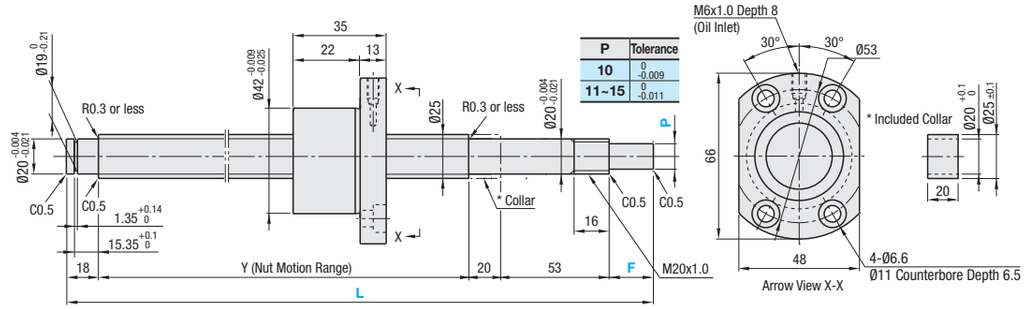
Nut Type	Type		Accuracy Grade	Shaft Dia.	Lead	Screw Shaft			Nut		
	Standard	F, P Configurable				M Material	H Hardness	S Surface Treatment	M Material	H Hardness	S Surface Treatment
Compact Nut	BSSC	BSSCK	C10	25	5	EN 1.1203 Equiv.	Induction Hardened 56~62HRC	-	EN 1.7258 Equiv.	Carburized 58~62HRC	-

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



BSSC(K)2505

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



Nut Type	Accuracy Grade	Part Number	Type	Screw Shaft O.D.	Lead	L	*F	*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	BSSC	25	05	200~2000	27	15	L-118	3.175	25.5	(22.25)	3 turns, 1 row	5.47	12.52	0.10 or Less	Right
		BSSCK	BSSCK				27~45	10~15	L- (91+F)								

* F and P are configurable for BSSCK only. (P)F≤Px3 kgf=Nx0.101972

Nut Type	Accuracy Grade	Part Number	Unit Price 1 ~ 4 pc(s). L200~400	L401~600	L601~800	L801~1000	L1001~1200	L1201~ 1500	L1501~ 2000
Compact Nut	C10	BSSC2505							

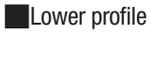
Ordering Example

Part Number	-	L	-	F	-	P
BSSC2505	-	521				
BSSCK2505	-	300	-	F32	-	P13

■Notes
- (P)Filled with lithium soap based grease (Alvania Grease S2 made by Showa Shell Sekiyu K.K).
- (P)For accuracy of Ball Screws, see **P.2223** and **P.2224**.
- (P)For details of Support Units, see **P.753** ~ **P.778**.
- (P)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.
- (P)Use the "* collar" position in the diagram for the accessory collar. Use one of the support unit accessory collars on the fastening nut side.
- (P)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.)
BSSC2005	-	350					-	KC10

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	No Retaining Ring Groove on Support Side Shaft End. Ordering Code RNC (P)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 and 20. G=1mm Increment Ordering Code GC-Q10-G20 (P)5≤G≤Qx3(P)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. (P)19≤FC≤60 (P)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 MC25 (P)Y dimension is shortened. (P)28≤MC≤60

Alterations	Code	Spec.
Wrench Flats on Fixed Side Incomplete Hardened Area	SZC	Adds wrench flats on the fixed side shaft end. Ordering Code SZC (P)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. KC=1mm Increment Ordering Code KC15 (P)5≤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.) K, S=1mm Increment Ordering Code KLC-K7-S2 (P)6≤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 (P)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 SWC10 (P)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. (P)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	25	05	BSV	20	Square Low Profile	○		P.771
			BUV	20			○	P.772
			BRW	20	Round	○		P.767
			BUR	20			○	P.768

(P)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	25	05	BNFB	2005C	P.780
			BNFM	2010C	
			BNFR	2505C	
			BNFA		

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

Example

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