


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

Accuracy Grade C10

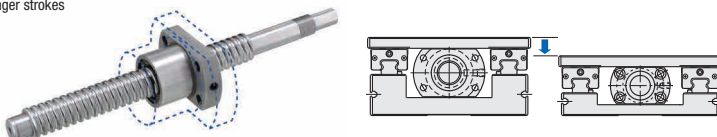
Points of comparison between similar products | Consider using this product if the usage environment is a high-load, and high-frequency drive application.



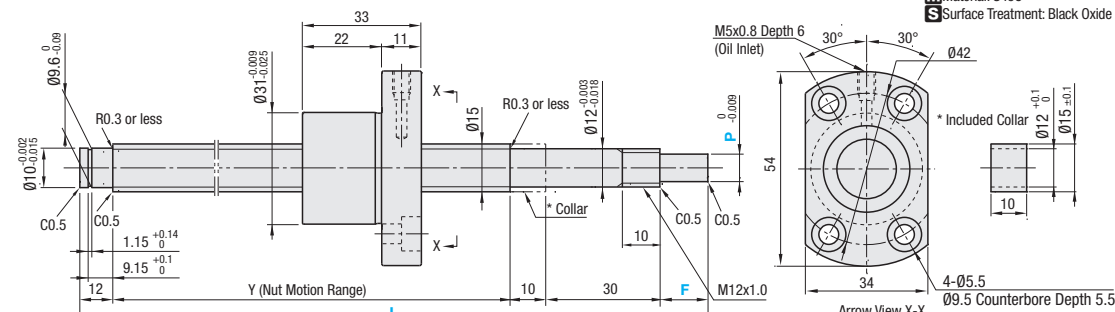
Nut Type	Type		Accuracy Grade	Shaft Dia.	Lead	Screw Shaft			Nut		
	Standard	F, P Configurable				Material	Hardness	Surface Treatment	Material	Hardness	Surface Treatment
Compact Nut	BSSC	BSSCK	C10	15	5, 10	S55C	Induction Hardened 56-62HRC	-	SCM420H	Carburized 58-62HRC	-

Features of Compact Nut

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

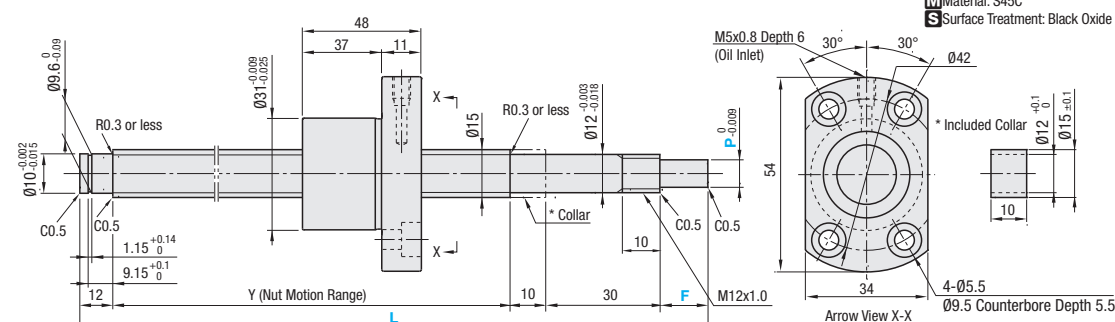


BSSC(K)1505



* Included Collar (1 pc.)
 M Material: S45C
 S Surface Treatment: Black Oxide

BSSC(K)1510



* Included Collar (1 pc.)
 M Material: S45C
 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.	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
						15~30	6~10						L-(52+F)			
		BSSCK	10	200~1200	15	10	L-67	4.25						7.45		
					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						
		BSSCK1505						

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

Notes

① Filled with lithium soap based grease (Alvania Grease S2 made by Showa Shell Sekiyu K.K).

② For accuracy of Ball Screws, see P.2223 and P.2224.

③ For details of Support Units, see P.753 ~ P.778.

④ Cautions: Do not let the nuts overrun or remove the nuts from the screw shafts.

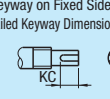
It may cause the balls to fall out or damage the ball recirculation parts.

⑤ Use the "collar" position in the diagram for the accessory collar. Use one of the support unit accessory collars on the fastening nut side.

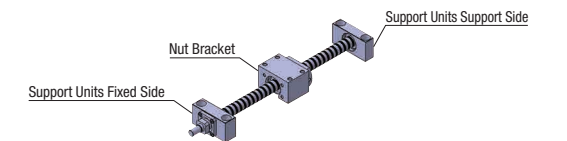
⑥ Do not tilt the ball screw assembly since the nut may spin off from the shaft due to its own weight.

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 (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 * 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 FC20 * 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 ϕ M5x0.8 12 * 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. 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.



■ Combination with Support Units

Ball Screw Part Number	Recommended Support Unit							
	Type	Screw Shaft O.D.	Lead	Part Number Type	Shape	Fixed Side	Support Side	Page
BSSC	15	05 10	12	BSV	Square Low Profile	○	○	P.771
				BUV				P.772
				BRW	Round	○	○	P.767
				BUR				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	No.	Page
BSSC	15	05	1505C	BNFB	1505C	P.780
				BNFM		
BSSC	15	10	1510C	BNFR	1510C	P.780
				BNFA		

* 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.

