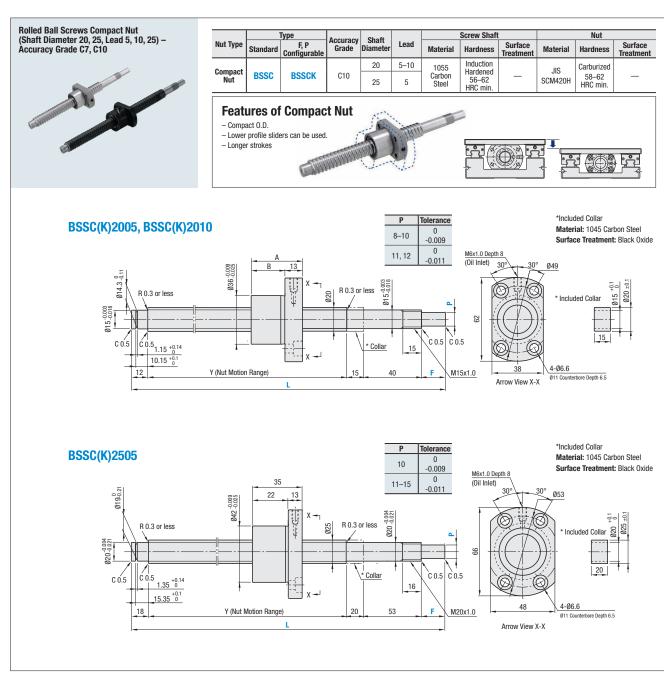
## Rolled Ball Screws Compact Nut (Shaft Diameter 20, 25, Lead 5, 10, 25)

**Accuracy Grade C7, C10** 



Nut Type	Accuracy Grade	Part Number			1 mm Increment						Ball	Screw	Number	Basic Load Rating				
		Туре	Screw Shaft 0.D.	Lead	L	*F	*P	А	В	Y	Ball Dia.	Center Dia.	Root Dia.	of	C (Dynamic) kN	Co (Static) kN	Axial Play	Twisting Direction
Compact Nut	C10	BSSC		0.5	200–2000	20	12	38	25	L-87		20.5		4 Turns.	6.6	14.05	0.10 or Less 0.15 or Less	Right
		BSSCK		US		20-36	8–12			L-(67+F)								
		BSSC	20	40	250-2000	20	12	58.5	45.5 L-	L-87	0.475			1 Row	0.50			
		BSSCK		10		20-36	8–12			L-(67+F)	3.175				6.53			
		BSSC	25 05	OF.	200–2000	27	15	— —	_	L-118	-	25.5	(22.25)	3 Turns, 1 Row	5.47	12.52	0.10 or Less	
		BSSCK		UO		27-45	10-15			L-(91+F)								

<sup>\*</sup>F and P are configurable for BSSCK only. ① F≤Px3. kgf=Nx0.101972

# Rolled Ball Screws Compact Nut (Shaft Diameter 20, 25, Lead 5, 10, 25)

Accuracy Grade C7, C10, continued



		Part Number	- L - F -	P - (FC, KC, etc.)
<b>)</b>	Alterations	BSSC2005	- 350	- KC10

Alterations	Code	Spec.					
No Machining on Support Side Shaft End	NC	No machining added on the support side shaft end. <b>Ordering Code:</b> NC					
Ball Nut Orientation Reversed  (Support Side) (Fixed Side)  Standard OCCOMPANY (Fixed Side)	RLC	Changes the nut direction.  Ordering Code: RLC					
No Retaining Ring Groove on Support Side Shaft End	RNC	Retaining ring groove in not machined on the support side shaft end.  Ordering Code: RNC  O Combination with FC is not available.					
Change Support Side Shaft End Machining	GC	Changes the machining on the support side. For Screw Shaft 20, Q is selectable from 10, 12 and 15 For Screw Shaft 25, Q is selectable from 10, 12, 15 and 20. $G = 1 \text{ mm Increment}$ Ordering Code: $GC-Q10-G20$					
Change Support Side Shaft End Length	FC	$ \begin{array}{c cccc} Changes the length of the support side shaft end. \\ FC = 1 mm Increment \\ \textbf{Ordering Code:} FC20 \\ \textbf{0} \ 13 \le FC \le 30 \ (BSSC(K)2005, 2010) \\ \textbf{0} \ 19 \le FC \le 60 \ (BSSC(K)2005) \\ \textbf{0} \ Y \ dimension is shortened. \\ \end{array} $					
Tapped Hole on Support Side Shaft End		Adds a tapped hole on the support side shaft end. $ MC = 1 \ mm \ Increment $ $ Ordering \ Code: \ MC25 $					
- A		Shaft Dia. M ℓ A					
MC	MC	20 M6 x 1.0 15 10.15					
		25 M8 x 1.25 20 15.35					
		① Y dimension is shortened. ② 21≤MC≤30(BSSC(K)2005, 2010) ② 28≤MC≤60(BSSC(K)2505)					

#### Note:

- Tilled with lithium soap based grease (Alvania Grease S2 made by Showa Shell Sekiyu K.K).
- For accuracy of Ball Screws, see P.752–754.
- For details of Support Units, see P.792–802.
- O Caution: Do not remove any nuts from their screw shafts or allow nuts to overrun the stroke. It may cause the balls to fall out or damage the ball recirculation parts.
- O Included Collar is packaged together with main body of Ball Screws.

  Store this Included Collar with care. It is required when mating with Support Units.
- O Do not tilt the ball screw assembly. Due to its weight, the nut may rotate off of the shaft.

Alterations	Code	Spec.
Wrench Flats on Fixed Side	SZC	Adds wrench flats on the fixed side shaft end.  Ordering Code: SZC  Description Ball bearings will fall out if the ball nut crosses the wrench flats.  Screw Shaft A B (C) D  Schaft A B (C) D  20 16 9 25 6  25 18 10 27 7
Keyway on Fixed Side Shaft End Detailed Keyway Dimensions <b>P.752</b> .	KC	Adds a keyway on the fixed side shaft end. KC = 1 mm Increment <b>Ordering Code:</b> $KC15$ $\bigcirc$ $4 \le KC \le Px3$ $KC \le F-1$ (BSSC(K)2005,2010) $\bigcirc$ $5 \le KC \le Px3$ $KC \le F-1$ (BSSC(K)2505)
Keyway on Fixed Side Shaft End	KLC	Adds a keyway at a customer specified area on the fixed side shaft end. (Key groove dim. is the same as KC.)  K, S = 1 mm Increment  Ordering Code: KLC-K7-S2  0 5sK+SsPx3 K+SsF-1(BSSC(K)2005,2010)  0 6sK+SsPx3 K+SsF-1(BSSC(K)2505)
Flat Machined on Fixed Side Shaft End	SC	Adds a flat on the fixed side shaft end. $SC = 1 \text{ mm Increment}$
2 Flats on Fixed Side Shaft End  SWC SGC  SK. SK. D. 51 0.5	SWC SGC	Adds two flats on the fixed side shaft end. SWC: 90° Position SGC: 120° Position 1 mm Increment Ordering Code: SWC10  □ 5≤SWC, SGC≤Px3 SWC, SGC≤F-1
Installing Special Temporary Shaft Temporary Shaft Nut Screw Shaft	TAS	Special Temporary Shaft used for installing Ball Screw Nut. Always use Special Temporary Shaft when removing or installing Ball Screw Nut.

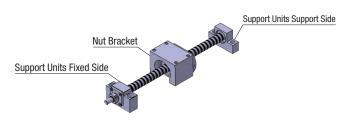
### Peripherals: Combination of the following parts are available



### **Combination with Support Units**

Ball	Screw Part Nu	mber	Recommended Support Units								
Tumo	Screw Shaft	Lead	Part N	umber	Shape	Fixed Side	Support Side	Page			
Туре	Outer Dia.		Туре	No.							
	20	05 10	BSV	15	Square	0	_	796			
			BUV	15	Low Profile	_	0	799			
			BRW	15	Round	0	_	800			
BSSC			BUR	15		_	0	802			
2000	25	05	BSV	20	Square Low	0	_	796			
			BUV	20	Profile	_	0	799			
			BSW	20	Round	0	_	794			
			BUN	20		_	0	798			

Aside from the part numbers shown above, there are a variety of other Support Units available. (P.792–802).



#### **Combination with Nut Brackets**

В	all Screw Part Num	ber	Recommended Nut Brackets			
Time	Screw Shaft	Lood	Part I	D		
Туре	Outer Diameter	Lead	Туре	No.	Page	
	20	05	BNFB	2505C	810	
BSSC	20	10	BNFM BNFR	2010R	810	
	25	05	BNFA	2505C	810	

