

Accuracy Grade C5



Points of comparison between similar products

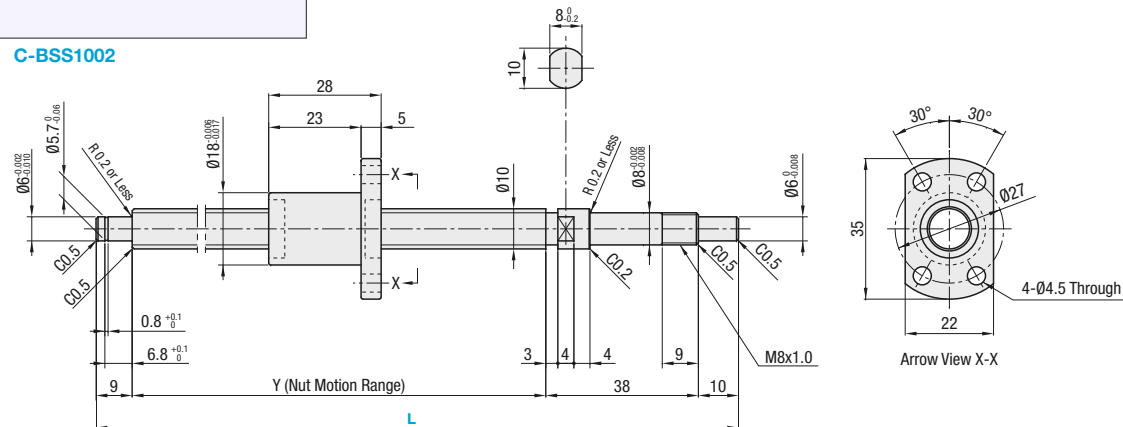
C-VALUE parts' load rating and nut dimensions are different from similar parts. (For details, see P677~ P679)
When considering C-VALUE parts, choose by comparing the specifications against similar parts.

Similar parts listed page **P.733, 734**

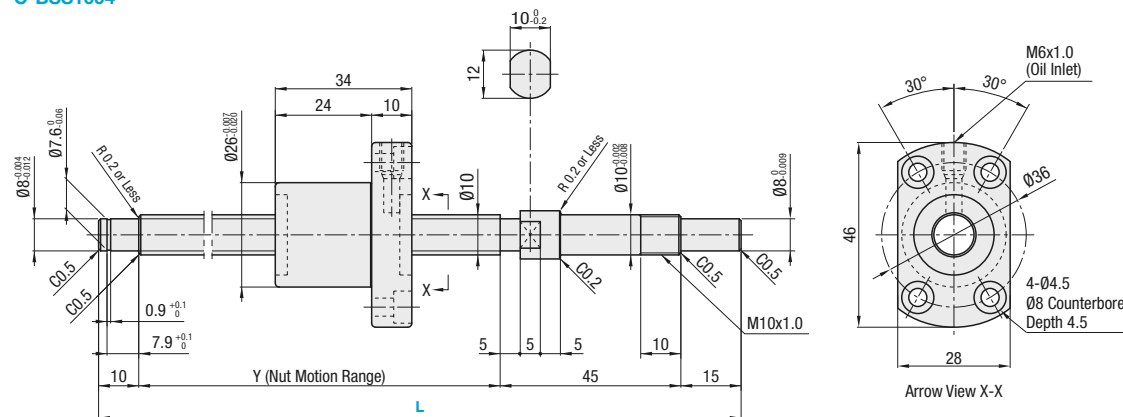


Nut Type	Type	Accuracy Grade	Shaft Dia.	Lead	Screw Shaft		Nut	
					 Material	 Hardness	 Material	 Hardness
Standard Nut	C-BSS	C5	10	2, 4	EN 1.1203 Equiv.	Induction Hardened 58-62HRC	EN 1.7242 Equiv.	Carburized 58-62HRC

C-BSS1002



C-BSS1004



Nut Type	Accuracy Grade	Part Number			1mm Increment	Y	Ball Dia.	Ball Center Dia.	Screw Root Dia.	Number of Circuits	Basic Load Rating		Axial Clearance	Preload torque N-cm	Twist Direction
		Type	Screw Shaft O.D.	Lead	L						C (Dynamic) kN	Co (Static) kN			
Standard Nut	C5	C-BSS	10	02	100~315	L-57	1.2	10.41	(9.21)	1 turn	1.6	2.3	0.008 or Less	0.5 or Less	Right
				04	150~380	L-70	2	10.68	(8.68)	3 rows	2.3	4.1		1.0 or Less	

$$\text{kgf} = \text{N} \times 0.101972$$

Nut Type	Accuracy Grade	Part Number	Unit Price 1 ~ 4 pc(s).		
			L100~248	L249~250	L251~380
Standard Nut	C5	C-BSS1002			
		C-BSS1004			



Ordering Example

Part Number	-	L
C-BSS1002	-	200

■ 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.

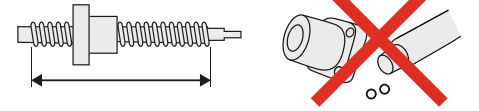
It may cause the balls to fall out or damage the ball recirculation parts.

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

⚠ Use one of the support unit accessory collars on the fastening nut side.

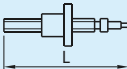
<Do not let a nut overrun>

<Do not take a nut off>



Alterations

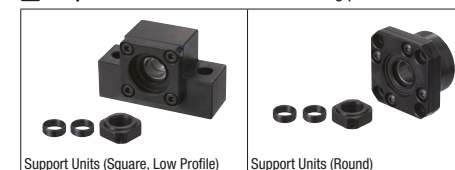
Part Number - L - (FC, KC...etc.)
C-BSS1004 - 182 - KC3

Alterations	Code	Spec.									
No Machining on Support Side Shaft End 	NC	No machining added on the support side shaft end. <u>Ordering Code</u> NC									
Ball Nut Orientation Reversed (Support Side) (Fixed Side) Std.  Revised 	RLC	Changes the nut direction. <u>Ordering Code</u> RLC									
No Retaining Ring Groove on Support Side Shaft End 	RNC	No Retaining Ring Groove on Support Side Shaft End <u>Ordering Code</u> 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 6 or 8. ⚠ Y dimension is shortened. G=1mm Increment <u>Ordering Code</u> GC-08-G20 ⚠ 5≤G<Qx3 ⚠ Not applicable to 1002.									
Change Support Side Shaft End Length 	FC	Changes the length of the support side shaft end. FC=1mm Increment <u>Ordering Code</u> EN-JL 1030 Equiv. <table border="1"> <thead> <tr> <th>Size</th><th>l</th><th>FC Range</th></tr> </thead> <tbody> <tr> <td>1002</td><td>6.8</td><td>10≤FC≤20</td></tr> <tr> <td>1004</td><td>7.9</td><td>11≤FC≤20</td></tr> </tbody> </table> ⚠ Y dimension is shortened.	Size	l	FC Range	1002	6.8	10≤FC≤20	1004	7.9	11≤FC≤20
Size	l	FC Range									
1002	6.8	10≤FC≤20									
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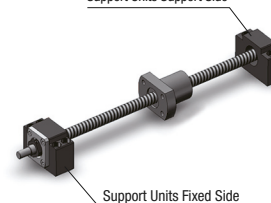
Alterations	Code	Spec.
Keyway on Fixed Side Shaft End Detailed Keyway Dimensions ISO P684	KC	Adds a keyway on the fixed side shaft end. KC=1mm Increment [Ordering Code] KC10 $3 \leq KC \leq 14(9)$
Keyway on Fixed Side Shaft End	KLC	Adds a keyway at a customer specified area on the fixed side shaft end. (Keyway dim. is same as KC.) K, S=1mm Increment [Ordering Code] KLC-K5-S1 $4 \leq K + S \leq 14(9)$
Flat Machined on Fixed Side Shaft End	SC	Adds a flat on the fixed side shaft end. SC=1mm Increment [Ordering Code] SC7 $5 \leq SC \leq 14(9)$
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 $5 \leq SWC, SGC \leq 14(9)$

⚠ Dimensions in () are for 1002.

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



Support Units Support Side



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.				
C-BSS	10	02	C-BRW	8S	Round	○		P.767
			C-BUR	6			○	P.768
			C-BSW	8S	Square	○		P.763
			C-BUN	8			○	P.762
		04	C-BRW	10S	Round	○		P.767
			C-BUR	10			○	P.768
			C-BSW	10S	Square	○		P.763
			C-BUN	10			○	P.762

❗ Other than the part numbers shown above, a wide variety of Support Units are also available. (P.761~P.778)