

Precision Ball Screws Standard Nut - Shaft Dia. 20; Lead 5, 10, 20
Accuracy Grade C5

Part Number
& Spec.Change
Printed in Purple

Points of comparison
between similar products

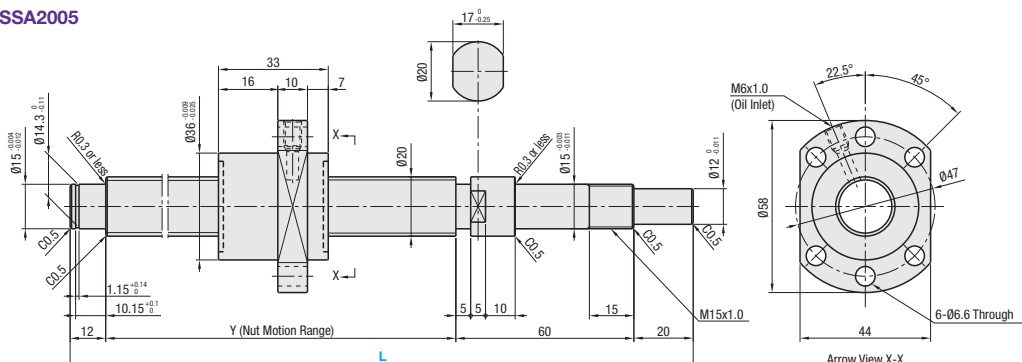
- Due to the difference in load rating and positioning accuracy (lead accuracy + axial play), the price is lower than that of similar products.
- When considering adopting C-VALUE parts, select them by comparing against similar products in the specifications. P. 745 ~ P. 746.

Similar Product Pages P. 745, P. 746

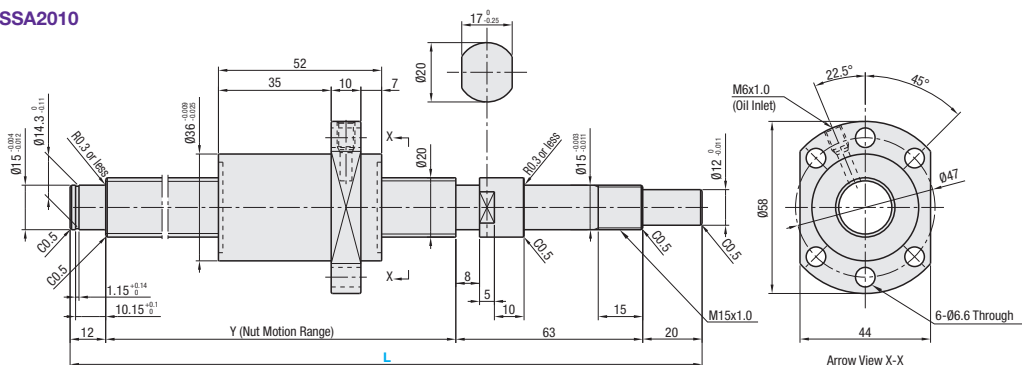


Nut Type	Type	Accuracy Grade	Shaft Dia.	Lead	Screw Shaft		Nut	
					Material	Hardness	Material	Hardness
Standard Nut	C-BSSA	C5	20	5, 10, 20	EN 1.1203 Equiv.	Induction Hardened 58-62 HRC	EN 1.7242 Equiv.	Carburized 58-62 HRC

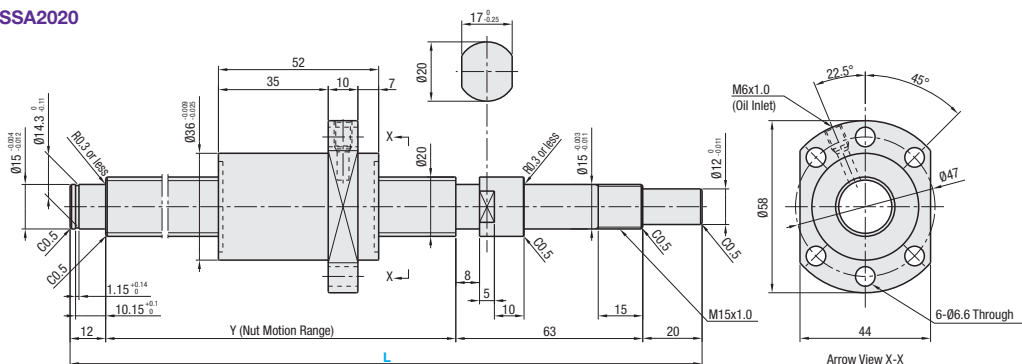
C-BSSA2005



C-BSSA2010



C-BSSA2020



Nut Type	Accuracy Grade	Part Number			1 mm Increments	Y	Ball Dia.	Ball Center Dia.	Screw Root Dia.	Number of Circuits	Basic Load Rating		Axial Clearance	Preload Torque N-cm	Twisting Direction
		Type	Screw Shaft O.D.	Lead	L						C (Dynamic) kN	Co (Static) kN			
Standard Nut	C5	C-BSSA	20	05	200~1000	L - 92	3.175	21.08	(17.905)	3.8 turns, 1 row	7.1	14.5	0.015 or less	3.0 or less	Right
				10	250~1500	L - 95		20.75	(17.575)	1.8 turns, 1 row	6.4	11.3		4.0 or less	
				20											

kgf = N x 0.101972

Nut Type	Accuracy Grade	Part Number	JPY Unit Price: 1 to 4 pc(s).					
			L200~400	L401~600	L601~800	L801~1000	L1001~1200	L1201~1500
Standard Nut	C5	C-BSSA2005						
		C-BSSA2010						
		C-BSSA2020						



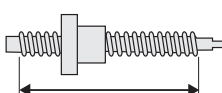
Ordering Example

Part Number - L
C-BSSA2005 - 820

Notes

- Filled with lithium soap based grease (Alvania Grease S2 made by Showa Shell Sekiyu K.K.).
- For accuracy of Ball Screws, see P. 2285, 2286.
- For details of Support Units, see P. 771 ~ P. 796.
- 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.
- The collar included with this product should be installed in the same position as indicated with the "Collar" text on the drawing. In addition, the collar included with the Support Unit product should be installed and tightened on the nut side of the ball screw.
- Note that, when a ball screw shaft or ball screw nut is tilted, it may be fallen out by its own weight.

[Do not let a nut overrun]



[Do not take a nut off]



Alterations

Part Number - L - (FC, KC...etc.)
C-BSSA2010 - 365 - 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 Std. (Support Side) (Fixed Side) Revised	RLC	Changes the nut direction. Ordering Code RLC
No Retaining Ring Groove on Support Side Shaft End	RNC	No retaining ring groove is 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 = 1 mm Increments Ordering Code FC20 13 ≤ FC ≤ 30 Y dimension is shortened. No Retaining Ring Groove Combination with GC is not available.
Change Support Side Shaft End Machining	GC	Changes the machining on the support side. Q is selectable from 10, 12 or 15. G = 1 mm Increments Y dimension is shortened. Ordering Code GC - Q10 - G20 5 ≤ G ≤ Q x 3 Combination with FC is not available.

Alterations	Code	Spec.
Tapped Hole on Support Side Shaft End	MC	Adds a tapped hole on the support side shaft end. MC = 1 mm Increments Ordering Code MC25 M x l M6 x 1.0 15 21 ≤ MC ≤ 30 Y dimension is shortened.
Keyway on Fixed Side Shaft End Detailed Keyway Dimensions P. 684	KC	Adds a keyway on the fixed side shaft end. KC = 1 mm Increments Ordering Code KC15 4 ≤ KC ≤ 19
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 that of KC.) K, S = 1 mm Increments Ordering Code KLC - K7 - S2 5 ≤ K + S ≤ 19
Flat Machined on Fixed Side Shaft End	SC	Adds a flat on the fixed side shaft end. SC = 1 mm Increments Ordering Code SC7 5 ≤ SC ≤ 19
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 1 mm Increments Ordering Code SWC20 5 ≤ SWC/SGC ≤ 19

Peripherals: Combination with the following parts is available.



Nut Brackets for C-Value Ball Screws are not available.

Combination with Support Units

Ball Screw Part Number			Recommended Support Unit			
Type	Screw Shaft O.D.	Lead	Part Number Type No.	Shape	Fixed Side	Support Side
C-BSSA	20	05 10 20	C-BRW	Round	○	○
			C-BUR			
			C-BSW	Square	○	○
			C-BUN			

Other than the part numbers shown above, a rich variety of Support Units are also available. (P. 761~P. 780)

