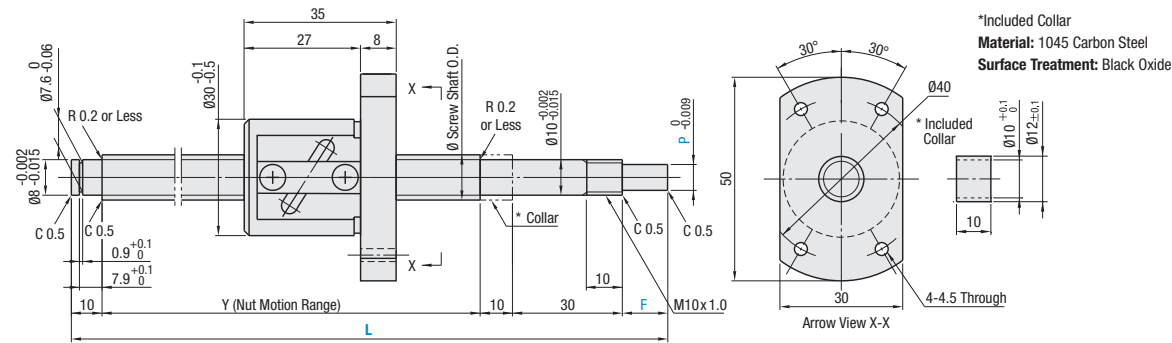


# Rolled Ball Screws Standard Nut (Shaft Diameter 12 / 14, Lead 4, 5, 10)

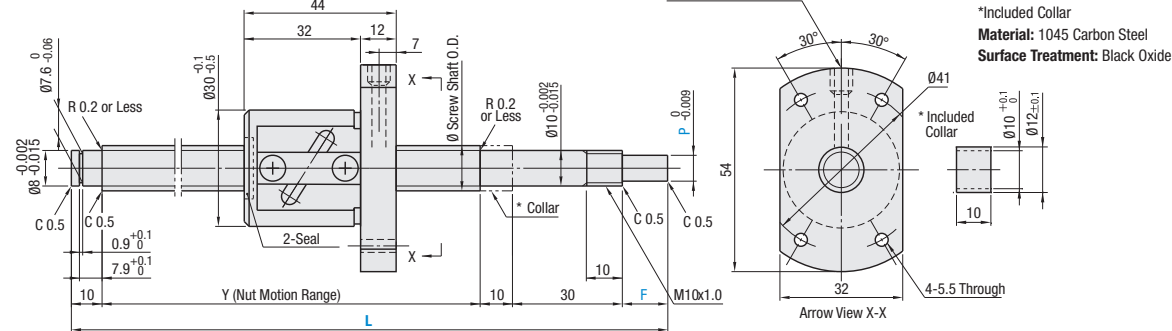
Accuracy Grade C7, C10



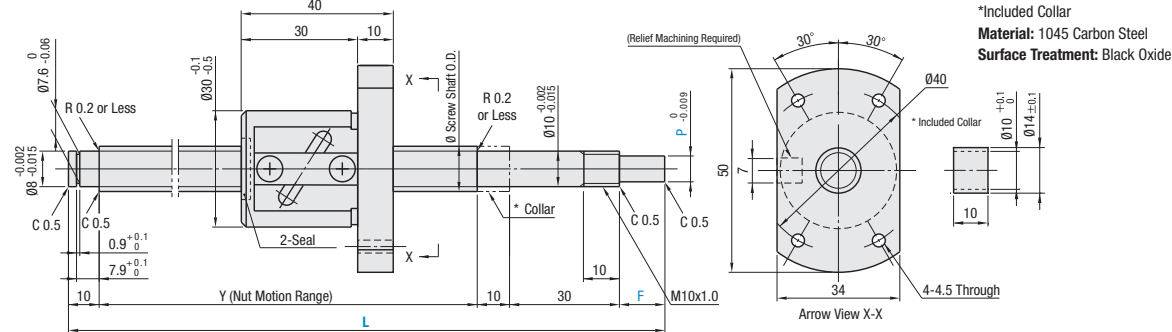
## BSST1204, BSSR (K) 1204, BSSZ (K) 1204



## BSSR (K) 1210, BSSZ (K) 1210



## BSSR (K) 1405, BSSZ (K) 1405



Nut Type	Accuracy Grade	Part Number		1 mm 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		
Standard Nut	C7	BSST	12	04	150-795	2.3812	12.6	(10)	2.5 turns, 1 row	2.6	5.8	0.03 or Less	Right		
		BSSR			15-24									5-8	L-(50+F)
		BSSZ			15-24									5-8	L-(50+F)
		BSSR			15-24									5-8	L-(50+F)
		BSSZ			15-24									5-8	L-(50+F)
		BSSZ			15-24									5-8	L-(50+F)
	C10	BSSR	12	10	150-800	3.175	12.8	(9.6)	1.5 turns, 1 row	2.85	4.95	0.10 or Less			
		BSSR			15-24									5-8	L-(50+F)
		BSSZ			15-24									5-8	L-(50+F)
		BSSR			15-24									5-8	L-(50+F)
		BSSZ			15-24									5-8	L-(50+F)
		BSSZ			15-24									5-8	L-(50+F)

\*F and P are configurable for BSSR and BSSZ only.  $\phi F \leq P \times 3$ ,  $kgf = N \times 0.101972$

# Rolled Ball Screws Standard Nut (Shaft Diameter 12 / 14, Lead 4, 5, 10)

Accuracy Grade C7, C10, continued

**Part Number Example**

Part Number - L - F - P

BSSZK1210 - 370 - F20 - P8

BSSR1204L - 370 L Type Greased

BSSR1405G - 370 G Type Greased

**Part Number Alterations**

Part Number - L - F - P - (FC, KC, etc.)

BSSR1204 - 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	RLC	Changes the nut direction. Ordering Code: RLC
No Retaining Ring Groove on Support Side Shaft End	RNC	Retaining ring groove is not machined on the 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. For the screw shaft 12, Q is selectable from 6, 8; for the screw shaft 14, Q is selectable from 6, 8, 10. G = 1 mm Increment Ordering Code: GC-Q8-G20 ⊕ $5 \leq G \leq Q \times 3$ ⊕ Y dimension is shortened.
Change Support Side Shaft End Length	FC	Changes the length of the support side shaft end. FC = 1 mm Increment Ordering Code: FC20 ⊕ $11 \leq FC \leq 20$ ⊕ Y dimension is shortened.

**Peripherals:** Combination of the following parts are available.



## Combination with Support Units

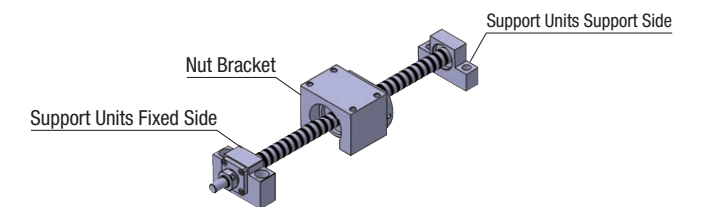
Type	Screw Shaft Outer Diameter	Lead	Recommended Support Units				
			Part Number	Shape	Fixed Side	Support Side	
BSST BSSR BSSZ	12	04 10	BRW 10S	Round	○	—	800
			BUR 10	Round	—	○	802
			BSW 10S	Square	○	—	794
			BUN 10	Square	—	○	798
BSSR BSSZ	14	05	BRW 10	Round	○	—	800
			BUR 10	Round	—	○	802
			BSW 10	Square	○	—	794
			BUN 10	Square	—	○	798

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

**Note:**

- ⊕ Mounting surface of BSST ball nut flange is not surface-treated.
- ⊕ Filled with lithium soap based grease (Alvania Grease S2 made by Showa Shell Sekiyu K.K.).
- ⊕ Various grease options are available. For specifications, P.752.
- ⊕ For accuracy of Ball Screws, see P.752-754.
- ⊕ For details of Support Units, see P.792-802.
- ⊕ 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.
- ⊕ 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.
- ⊕ 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 ⊕ Ball bearings will fall out if the ball nut crosses the wrench flats.
Incomplete Hardened Area	KC	Adds a keyway on the fixed side shaft end. ⊕ P=5 is not applicable. KC = 1 mm Increment Ordering Code: KC10 ⊕ 3KCPx3 KC≤F-1
Keyway on Fixed Side Shaft End Detailed Keyway Dimensions, See P.752.	KC	Adds a keyway on the fixed side shaft end. ⊕ P=5 is not applicable. KC = 1 mm Increment Ordering Code: KC10 ⊕ 3KCPx3 KC≤F-1
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.) ⊕ P=5 is not applicable. K, S = 1 mm Increment Ordering Code: KLC-K5-S2 ⊕ 4K+SPx3 K+S-F-1
Flat Machined on Fixed Side Shaft End	SC	Adds a flat on the fixed side shaft end. SC = 1 mm Increment Ordering Code: SC7 ⊕ $5 \leq SC \leq P \times 3$ 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 1 mm Increment Ordering Code: SWC7 ⊕ $5 \leq SWC, SGC \leq P \times 3$ SWC, SGC≤F-1
Installing Special Temporary Shaft	TAS	Special Temporary Shaft used for installing Ball Screw Nut. Always use Special Temporary Shaft when removing or installing Ball Screw Nut.



## Combination with Nut Brackets

Type	Screw Shaft Outer Diameter	Lead	Recommended Nut Brackets		
			Type	No.	Page
BSST BSSR BSSZ	12	04 10	BNFB	1204R	810
			BNFM	1210S	810
			BNFR	1405R	810