Screw shaft diameter ø8

● **Ball screw specifications**

Shaft diameter (mm) - Lead (mm)	8 - 2	
Number of circuits / Thread direction	2.5 turns 1 circuit / Right-hand	
Ball diameter (mm)	1.5875	
Root diameter (mm)	6.6	
Series	GP	
Basic dynamic load rating C (N)	1220	1950
Basic static load rating C0 (N)	1300	2600
Accuracy grade / Axial clearance symbol	C3 / S	C3 / F
Axial clearance (mm)	0	0.005 or less
Preload torque (N·cm)	0.3 to 2.0	Up to 0.5
Spacer ball	1 : 1	None
Recirculation system	Tube method	
Wiper	Felt	
Lubricant	Alvania Grease S2	

4-3.4 drilled hole, 6.5 spot facing, depth 3.3
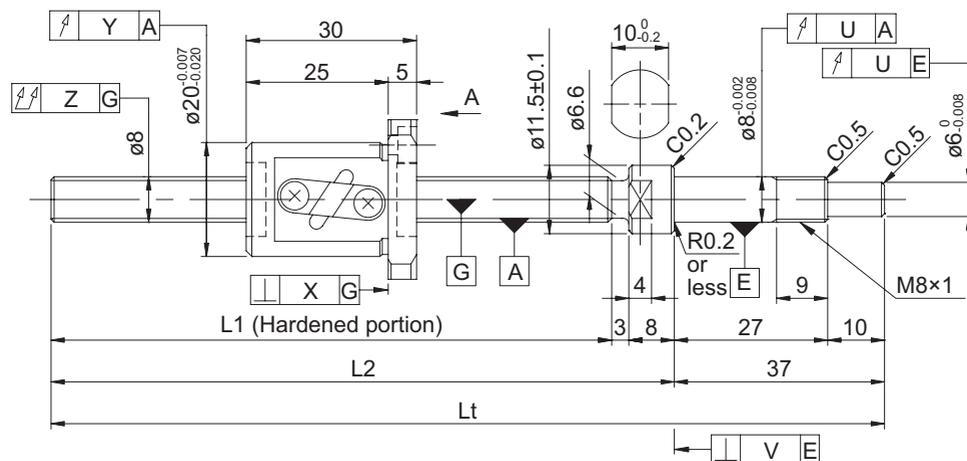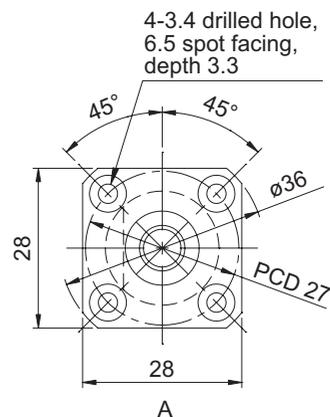
Model No. (One shaft end finished)	Screw shaft length			Maximum stroke (L1 - nut length)	Lead accuracy			Mass (kg)
	L1	L2	Lt		±E_c	e_c	e_{300}	
GP0802DS-AAFR-0170B-C3S	122	133	170	92	0.010	0.008	0.008	0.13
GP0802DS-AAFR-0170B-C3F	122	133	170	92	0.010	0.008	0.008	0.13
GP0802DS-AAFR-0250B-C3S	202	213	250	172	0.012	0.008	0.008	0.15
GP0802DS-AAFR-0250B-C3F	202	213	250	172	0.012	0.008	0.008	0.15

• **Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.**
• **Preload torque is a value before applying grease.**
• **At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied. Before and during use, apply lubricant where appropriate.**

● **Shaft end finish type**

Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size. The fixed end type is finished beforehand.

Regarding the supported shaft end, additional machining to KURODA's recommended shaft end finish type described below is available. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

Model example: Finished fixed end (See left figure) → Both shaft ends finished
GP0802DS-AAFR-0250B-C3F → GP0802DS-AAFR-0250X0193-C3F
→Thread length
→Overall screw shaft length

Applicable supported end support unit	Applicable fixed end support unit
BUK-6S (Square type)	BUK-8, BUK-8F (Square type)
BUM-6S (Round type)	BUM-8, BUM-8F (Round type)
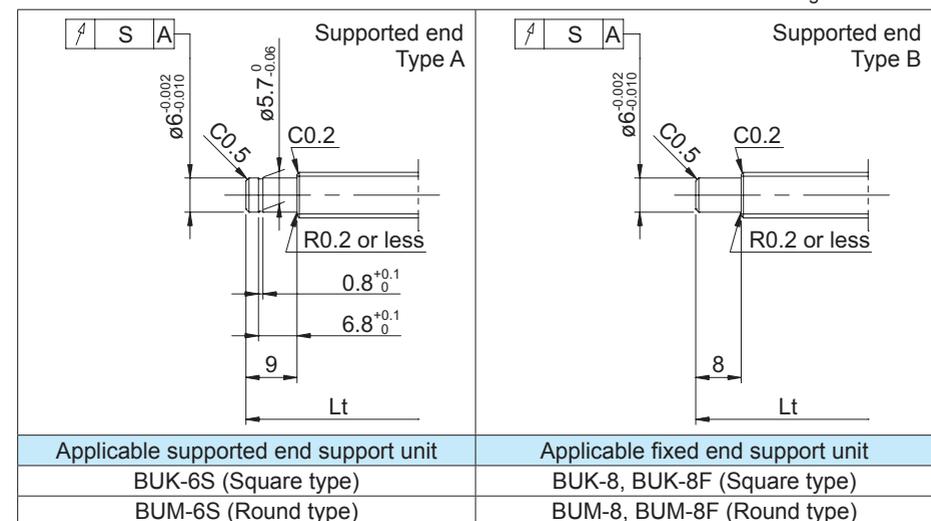
● **Optional specifications**
• Anticorrosive black coating (coating thickness: 1 to 2 μm) is available.

Accuracy of each part						Preload torque (N·cm)		Mass (kg)
X	Y	Z	S	U	V	Without clearance	With clearance	
0.008	0.008	0.030	0.010	0.008	0.0025	0.3 to 2.0	----	0.13
						----	Up to 0.5	
0.008	0.008	0.035	0.010	0.008	0.0025	0.3 to 2.0	----	0.15
						----	Up to 0.5	

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