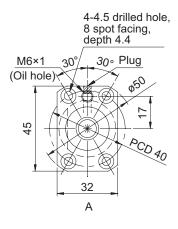
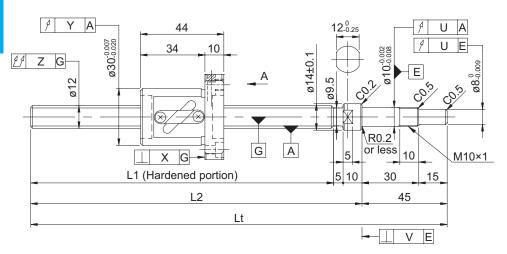
## • Ball screw specifications

Shaft diameter (mm) - Lead (mm)	12 - 5		
Number of circuits /	2.5 turns 1 circuit /		
Thread direction	Right-hand		
Ball diameter (mm)	3.175		
Root diameter (mm)	9.5		
Series	GP		
Basic dynamic load rating C (N)	3740	5950	
Basic static load rating C0 (N)	4900	9800	
Accuracy grade / Axial clearance symbol	C3 / S	C3 / F	
Axial clearance (mm)	0	0.005 or less	
Preload torque (N·cm)	1.5 to 5.0	Up to 1.0	
Spacer ball	1:1	None	
Recirculation system	Tube method		
Wiper	Lip seal		
Lubricant	Alvania Grease S2		





Model No.	Screw shaft length		Maximum stroke	Lead accuracy			
(One shaft end finished)	L1	L2	Lt	(L1 - nut length)	±Ε <sub>c</sub>	e <sub>c</sub>	e <sub>300</sub>
GP1205DS-BALR-0300B-C3S	240	255	300	196	0.012	0.008	0.008
GP1205DS-BALR-0300B-C3F	240						
GP1205DS-BALR-0450B-C3S	200	90 405	450	346	0.013	0.010	0.008
GP1205DS-BALR-0450B-C3F	390	405	450	340	0.013	0.010	0.006

- 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

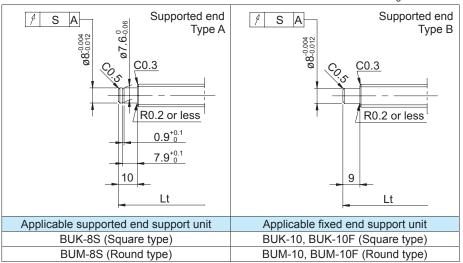
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size. The fixed end type is finished beforehand.

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.

 $\textbf{Model example:} \ \ \text{Finished fixed end (See left figure)} \ \rightarrow \ \ \text{Both shaft ends finished}$ 

GP1205DS-BALR-0450B-C3F → GP1205DS-BALR-0450X0380-C3F

→Thread length →Overall screw shaft length



## Optional specifications

• Anticorrosive black coating (coating thickness: 1 to 2 µm) is available.

Accuracy of each part				Preload torque (N·cm)		Mass		
X	Υ	Z	S	U	V	Without clearance	With clearance	(kg)
0.008	0.010	0.030	0.011	0.007	0.003	1.5 to 5.0		0.43
0.008   0.010   0.030   0	0.007	0.003		Up to 1.0	0.43			
0.000	0.010	0.050	0.011	0.007	0.002	1.5 to 5.0		0.52
0.008 0.010	0.010	0.010   0.050   0.011   0	0.007   0.003		Up to 1.0	0.53		