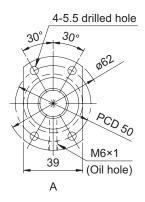
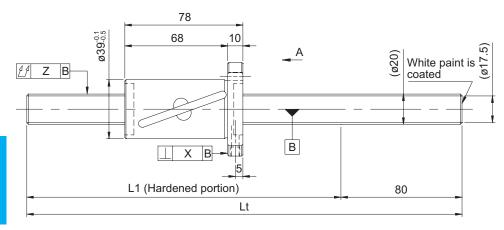
Ball screw specifications

Shaft diameter (mm) - Lead (mm) Number of circuits / Thread direction Ball diameter (mm) Root diameter (mm) Series GW GY Basic dynamic load rating C (N) Basic static load rating C0 (N) Accuracy grade / Axial clearance symbol Axial clearance (mm) Preload torque (N·cm) Recirculation system Cy Alvania Grease S2 Phosphate coating Proceeding Proceeding Proceeding 2.5 turns 1 circuit / Right-hand 3.175 GY GY GY GY C10 / Y C10 / Y C10 / Y Tube method Wiper Lip seal Alvania Grease S2			
Thread direction Right-hand Ball diameter (mm) 3.175 Root diameter (mm) 17.5 Series GW GY Basic dynamic load rating C (N) 6200 Basic static load rating C0 (N) 14700 Accuracy grade / Axial clearance symbol C7 / Y C10 / Y Axial clearance (mm) 0.030 or less 0.100 or less Preload torque (N·cm) Tube method Wiper Lip seal Lubricant Alvania Grease S2	Shaft diameter (mm) - Lead (mm)	20 - 20	
Ball diameter (mm) 3.175 Root diameter (mm) 17.5 Series GW GY Basic dynamic load rating C (N) 6200 Basic static load rating C0 (N) 14700 Accuracy grade / Axial clearance symbol C7 / Y C10 / Y Axial clearance (mm) 0.030 or less 0.100 or less Preload torque (N⋅cm) Tube method Wiper Lip seal Lubricant Alvania Grease S2	Number of circuits /	2.5 turns 1 circuit /	
Root diameter (mm) 17.5 Series GW GY Basic dynamic load rating C (N) 6200 Basic static load rating C0 (N) 14700 Accuracy grade / Axial clearance symbol Axial clearance (mm) 0.030 or less 0.100 or less Preload torque (N·cm) Recirculation system Tube method Wiper Lip seal Lubricant Alvania Grease S2	Thread direction	Right-hand	
Series GW GY Basic dynamic load rating C (N) 6200 Basic static load rating CO (N) 14700 Accuracy grade / C7 / Y C10 / Y Axial clearance symbol Axial clearance (mm) 0.030 or less 0.100 or less Preload torque (N·cm) Recirculation system Tube method Wiper Lip seal Lubricant Alvania Grease S2	Ball diameter (mm)	3.175	
Basic dynamic load rating C (N) 6200 Basic static load rating C0 (N) 14700 Accuracy grade / Axial clearance symbol Axial clearance (mm) 0.030 or less 0.100 or less Preload torque (N·cm) Recirculation system Tube method Wiper Lip seal Lubricant Alvania Grease S2	Root diameter (mm)	17.5	
Basic static load rating C0 (N) 14700 Accuracy grade / C7 / C10 / Y Axial clearance symbol 0.030 or less 0.100 or less Preload torque (N·cm) Recirculation system Tube method Wiper Lip seal Lubricant Alvania Grease S2	Series	GW	GY
Accuracy grade / Axial clearance symbol Axial clearance (mm) Preload torque (N·cm) Recirculation system Wiper Lubricant C7 / Y C10 / Y All C10 / Y All C10 / Y All C10 / Y All C10 / Y All C10 / Y All C10 / Y C10 / Y	Basic dynamic load rating C (N)	6200	
Axial clearance symbol Axial clearance (mm) Preload torque (N·cm) Recirculation system Wiper Lubricant C1074 C1074 C1074 C1074 C1074 C1074 C1074 Lip seal Alvania Grease S2	Basic static load rating C0 (N)	14700	
Axial clearance symbol Axial clearance (mm) Preload torque (N·cm) Recirculation system Wiper Lip seal Lubricant Axial clearance symbol 0.030 or less 0.100 or less Tube method Lip seal Alvania Grease S2	Accuracy grade /	C7 / V	C10 / Y
Preload torque (N·cm) Recirculation system Wiper Lip seal Lubricant Alvania Grease S2	Axial clearance symbol	C// f	
Recirculation system Wiper Lip seal Lubricant Alvania Grease S2	Axial clearance (mm)	0.030 or less	0.100 or less
Wiper Lip seal Lubricant Alvania Grease S2	Preload torque (N·cm)		
Lubricant Alvania Grease S2	Recirculation system	Tube method	
	Wiper	Lip seal	
Phosphate coating Nut alone Screw shaft nut	Lubricant	Alvania Grease S2	
Thospitate coating Nut alone ociew shart, nu	Phosphate coating	Nut alone	Screw shaft, nut





Model No. (Unfinished shaft ends)	L1	Lt	Maximum stroke (L1 - nut length)
GW2020DS-HULR-0600A	520	600	442
GW2020DS-HULR-1200A	1120	1200	1042
GW2020DS-HULR-2000A	1920	2000	1842
GY2020DS-HULR-0600A	520	600	442
GY2020DS-HULR-1200A	1120	1200	1042
GY2020DS-HULR-2000A	1920	2000	1842

• 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

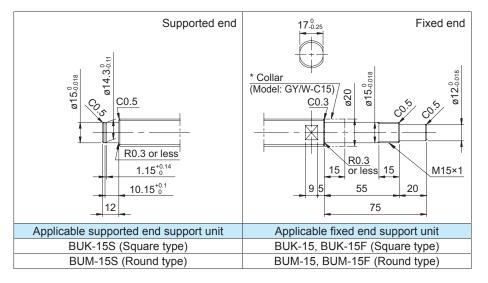
Standard rolled ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

Model example: Unfinished shaft ends (See left figure) → Finished shaft ends

GY2020DS-HULR-2000A → GY2020DS-HULR-1995X1908-CAY

→Thread length →Overall screw shaft length



Optional specifications

· Ball screw lubricating unit LUBSEAL can be equipped. Model example: GY2020DS-HUSR-1995X1908-CAY

→Wiper material S: LUBSEAL

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

Lead accuracy	Accuracy of each part		Mass
Cumulative lead error	X Z		(kg)
0.05/300 0.025		0.070	2.06
	0.025	0.120	3.53
	0.270	5.50	
0.21/300	0.140	2.06	
		0.240	3.53
		0.640	5.50