● Ball screw specifications

Shaft diameter (mm) - Lead (mm)	25 - 25	
Number of circuits / Thread direction	2.5 turns 2 circuits / Right-hand	
Ball diameter (mm)	3.9688	
Root diameter (mm)	21.5	
Series	GW	GY
Basic dynamic load rating C (N)	16800	
Basic static load rating C0 (N)	45400	
Accuracy grade / Axial clearance symbol	C7 / Y	C10 / Y
Axial clearance (mm)	0.050 or less	0.120 or less
Preload torque (N·cm)	----	
Recirculation system	Tube method	
Wiper	Lip seal	
Lubricant	Alvania Grease S2	
Phosphate coating	Nut alone	Screw shaft, nut

4-6.6 drilled hole
30° 30°
ø74
PCD 60
M6×1 (Oil hole)
47
A

96
84 12
ø47 −0.1/−0.5
Z B
A
(ø25)
White paint is coated
(ø21.5)
X B
B
6
L1 (Hardened portion)
110
Lt
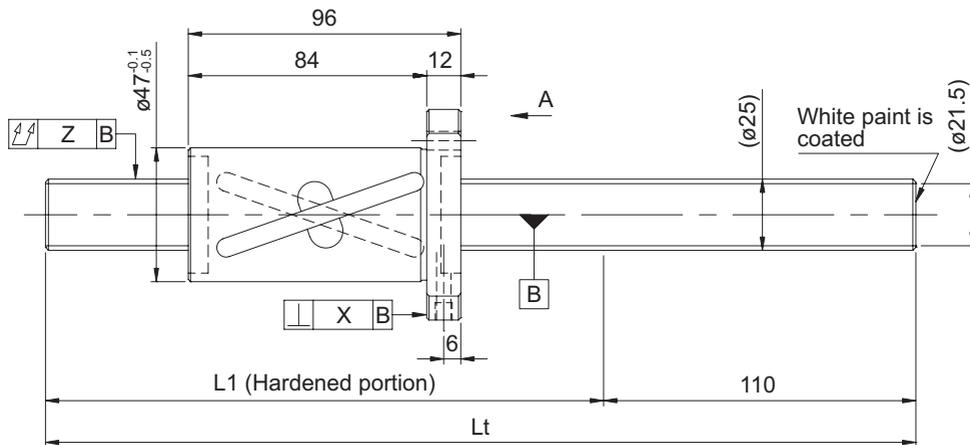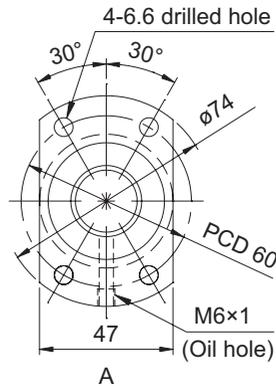
Model No. (Unfinished shaft ends)	L1	Lt	Maximum stroke (L1 - nut length)
GW2525ES-HULR-1000A	890	1000	794
GW2525ES-HULR-2000A	1890	2000	1794
GW2525ES-HULR-2500A	2390	2500	2294
GY2525ES-HULR-1000A	890	1000	794
GY2525ES-HULR-2000A	1890	2000	1794
GY2525ES-HULR-2500A	2390	2500	2294

• 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
GY2525ES-HULR-2500A → GY2525ES-HULR-2490X2372-CAY
→Thread length
→Overall screw shaft length

Supported end
Fixed end
22 0/−0.35
ø20 0/−0.021
ø19 0/−0.21
C1
C0.5
R0.3 or less
1.35 +0.14/0
15.35 +0.1/0
18
* Collar (Model: GY/W-C20)
C0.3
ø25
ø20 0/−0.021
ø15 0/−0.018
C0.5 C0.5
R0.3 or less
20 16
12.5 73 27
100
M20×1

Applicable supported end support unit	Applicable fixed end support unit
BUK-20S (Square type)	BUK-20, BUK-20F (Square type)
BUM-20S (Round type)	BUM-20, BUM-20F (Round type)

● Optional specifications

• Ball screw lubricating unit LUBSEAL can be equipped.
Model example: GY2525ES-HUSR-2490X2372-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	0.080	4.87
		0.200	8.71
		0.260	10.63
0.21/300	---	0.160	4.87
		0.400	8.71
		0.640	10.63