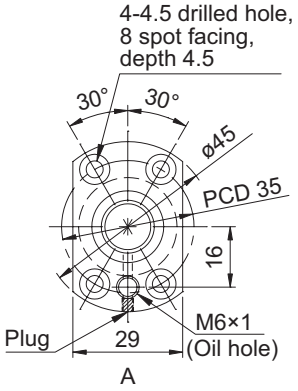
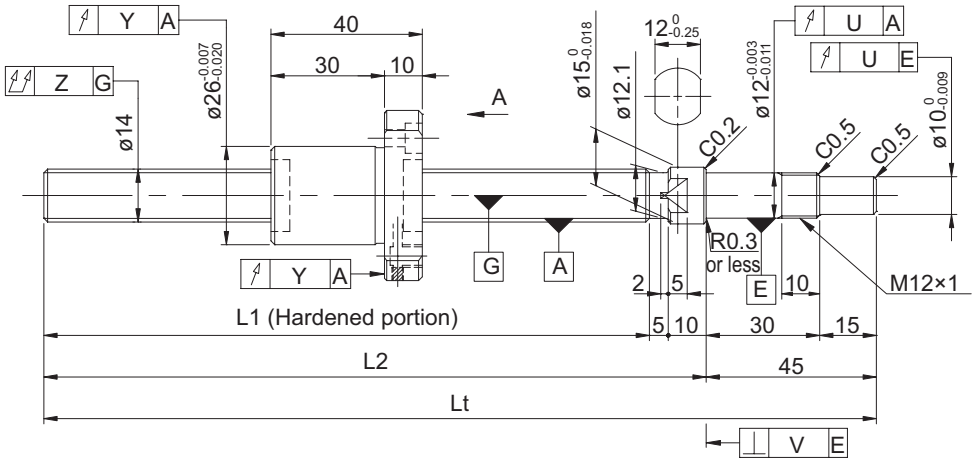
## ● Ball screw specifications

| | | |
|---|---|---|
| Shaft diameter (mm) - Lead (mm) | 14 - 4 | |
| Number of circuits / Thread direction | 1 turn 3 circuits / Right-hand | |
| Ball diameter (mm) | 2.3812 | |
| Root diameter (mm) | 12.1 | |
| Series | DP | |
| Basic dynamic load rating C (N) | 4600 | |
| Basic static load rating C0 (N) | 8600 | |
| Accuracy grade / Axial clearance symbol | C3 / S | C3 / F |
| Axial clearance (mm) | 0 | 0.005 or less |
| Preload torque (N·cm) | 1.0 to 6.9 | Up to 1.5 |
| Spacer ball | None | |
| Recirculation system | Deflector method | |
| Wiper | Plastic wiper | |
| Lubricant | Multemp PS2 | |




## ● 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.

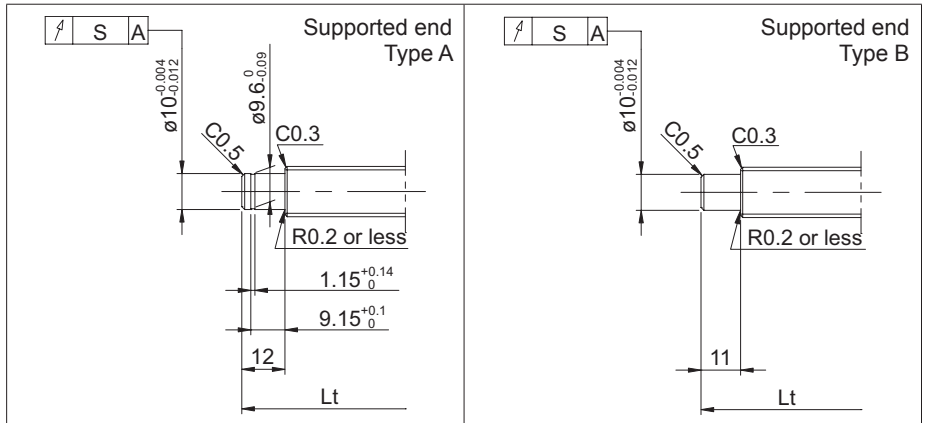
Regarding the supported shaft end, additional machining to KURODA's recommended shaft end finish type described below is available. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

**Model example:** Finished fixed end (See left figure) → Both shaft ends finished

DP1404JS-HDPR-0530B-C3F → DP1404JS-HDPR-0530X0458-C3F

Thread length

Overall screw shaft length




| Applicable supported end support unit | Applicable fixed end support unit |
|---|---|
| BUK-10S (Square type) | BUK-12, BUK-12F (Square type) |
| BUM-10S (Round type) | BUM-12, BUM-12F (Round type) |

## ● Optional specifications

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

| Model No. (One shaft end finished) | Screw shaft length | | | Maximum stroke (L1 - nut length) | Lead accuracy | | |
|---|---|---|---|---|---|---|---|
| | L1 | L2 | Lt | | ±$E_c$ | $e_c$ | $e_{300}$ |
| DP1404JS-HDPR-0330B-C3S | 270 | 285 | 330 | 230 | 0.012 | 0.008 | 0.008 |
| DP1404JS-HDPR-0330B-C3F | | | | | | | |
| DP1404JS-HDPR-0530B-C3S | 470 | 485 | 530 | 430 | 0.015 | 0.010 | 0.008 |
| DP1404JS-HDPR-0530B-C3F | | | | | | | |

| Accuracy of each part | | | | | | Preload torque (N·cm) | | Mass (kg) |
|---|---|---|---|---|---|---|---|---|
| X | Y | Z | S | U | V | Without clearance | With clearance | |
| 0.008 | 0.010 | 0.030 | 0.012 | 0.009 | 0.004 | 1.0 to 6.9 | ---- | 0.48 |
| | | | | | | ---- | Up to 1.5 | |
| 0.008 | 0.010 | 0.045 | 0.012 | 0.009 | 0.004 | 1.0 to 6.9 | ---- | 0.69 |
| | | | | | | ---- | Up to 1.5 | |

**• 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.**