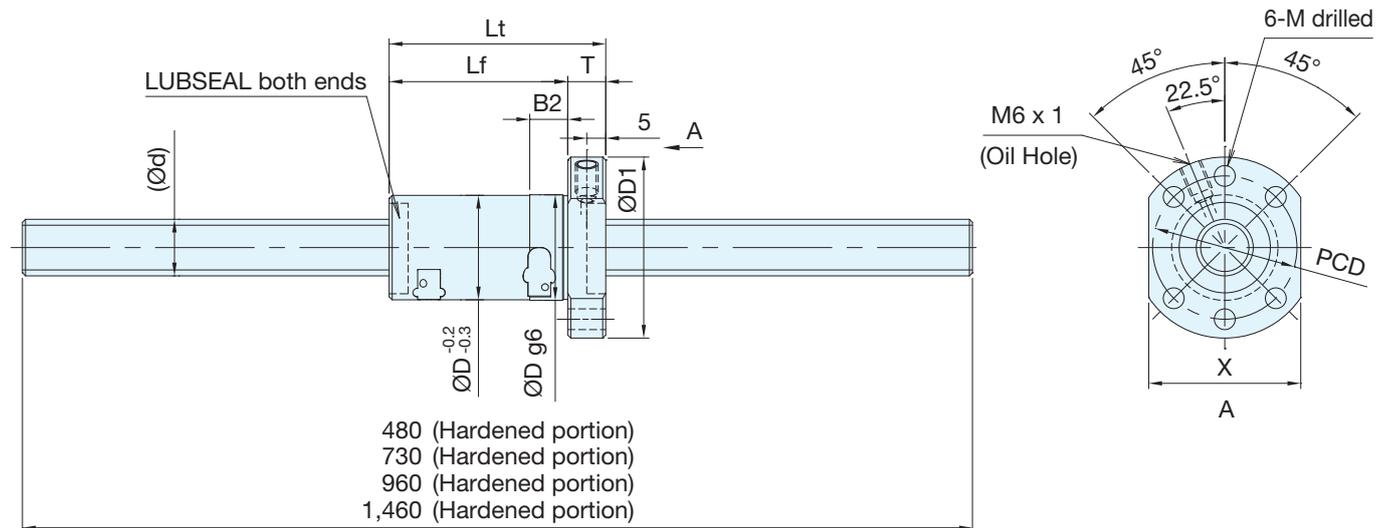


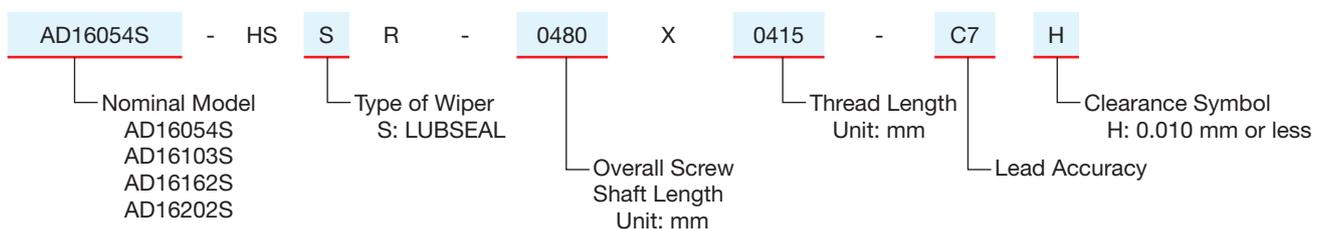
## Ball Screw Specifications

Nominal Model	AD16054S	AD16103S	AD16162S	AD16202S
Nominal Diameter [mm] - Lead [mm]	16 - 5	16 - 10	16 - 16	16 - 20
Number of Circuits / Thread Direction	3.7 turns per row / Right	2.7 turns per row / Right	1.7 turns per row / Right	1.7 turns per row / Right
Ball Diameter [mm]	2.778	2.778	2.778	2.778
Root Diameter [mm]	12.7	12.7	12.7	12.7
Basic Dynamic Load Rating C [N]	7,600	5,700	3,800	3,700
Basic Static Load Rating $C_0$ [N]	12,000	8,700	5,500	5,500
Accuracy Grade / Clearance Symbol	C7 / H	C7 / H	C7 / H	C7 / H
Axial Clearance [mm]	0.010 or less	0.010 or less	0.010 or less	0.010 or less
Ball Re-Circulation System	Side Deflector™ method	Side Deflector™ method	Side Deflector™ method	Side Deflector™ method
Wiper / Lubrication Unit	LUBSEAL™	LUBSEAL™	LUBSEAL™	LUBSEAL™
Lubricant	Multemp LRL No.3	Multemp LRL No.3	Multemp LRL No.3	Multemp LRL No.3
Maximum Rotational Speed [ $\text{min}^{-1}$ ]	5,000 DN $\leq$ 100,000	5,000 DN $\leq$ 100,000	5,000 DN $\leq$ 100,000	5,000 DN $\leq$ 100,000



Nominal Model	Nominal Diameter	Lead Ph	Screw Shaft Diameter d	Nut Dimensions								
				Outer Diameter D	Flange Diameter D1	Total Length Lt	Thickness T	Body Length Lf	Length B2	Mounting Hole PCD	Mounting Hole Diameter M	Width X
AD16054S	16	5	15	28	48	47	10	37	10	38	5.5	40
AD16103S		10				57		47				
AD16162S		16				58		48				
AD16202S		20				66		56				

## Guide to Model Numbers



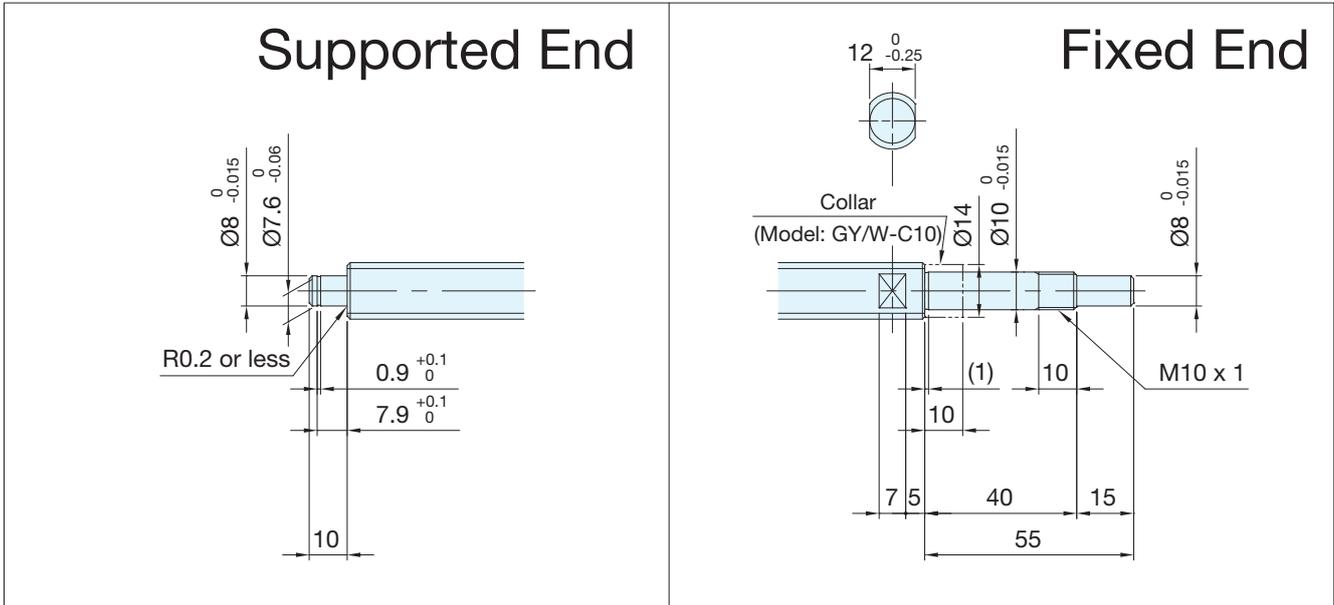
**● Shaft End Design**

Recommended shaft end configurations are available by size for AD Series ball screws.

As well as our recommended shaft end configuration below, additional machining for keyways, tap holes, D-cut machining, etc. are also available upon request.

A sample machined shaft end configuration is shown below.

Model example: Shaft end not machined (left page) ⇒ Shaft end machined  
 AD16054S-HSSR-0480A ⇒ AD16054S-HSSR-0480 X 0415 -C7H  
 ↳ Thread Length  
 ↳ Overall Screw Shaft Length



**● Applicable Support Units**

Applicable supported end support units	Applicable fixed end support units
BUK-8S (square) Refer to page 22	BUK-10/BUK-10F (square) Refer to page 22
BUM-8S (round) Refer to page 23	BUM-10/BUM-10F (round) Refer to page 23

**● Optional Specifications**

Anti-rust black oxide film treatment (film thickness 1-2 µm) is available.