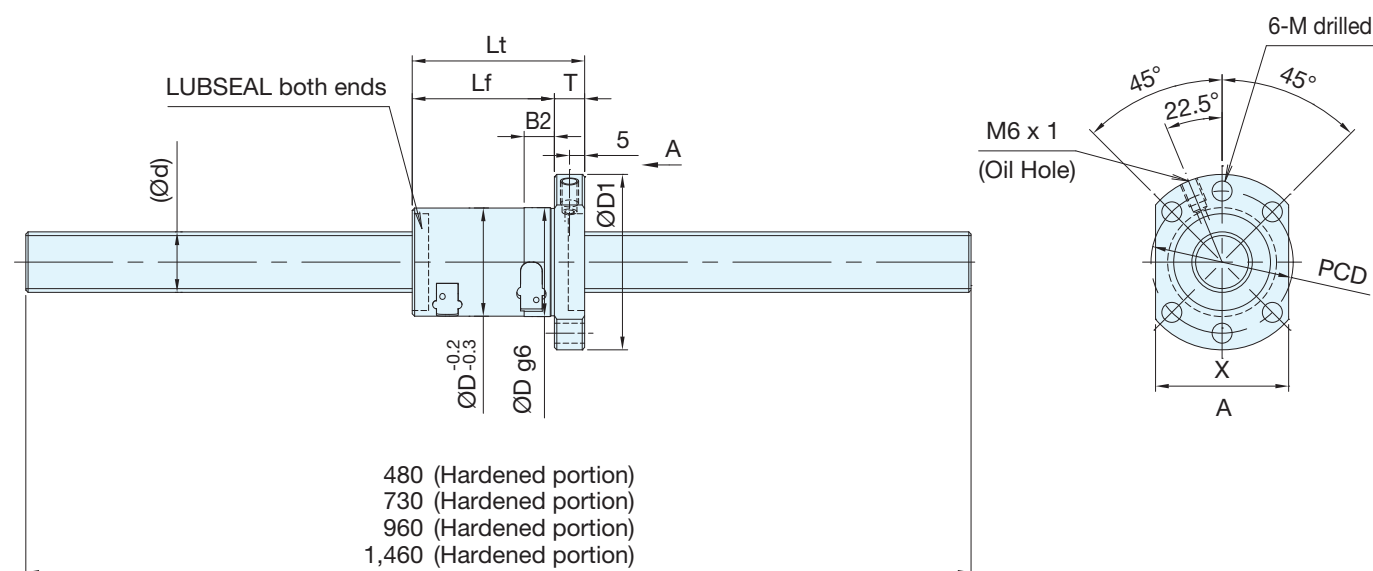


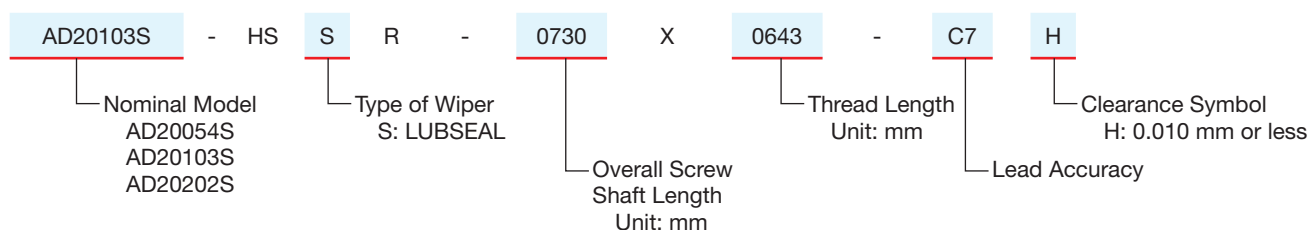
Ball Screw Specifications

Nominal Model	AD20054S	AD20103S	AD20202S
Nominal Diameter [mm] - Lead [mm]	20 - 5	20 - 10	20 - 20
Number of Circuits / Thread Direction	3.7 turns per row / Right	2.7 turns per row / Right	1.7 turns per row / Right
Ball Diameter [mm]	3.175	3.175	3.175
Root Diameter [mm]	17.5	17.5	17.5
Basic Dynamic Load Rating C [N]	10,400	7,800	5,100
Basic Static Load Rating C ₀ [N]	18,500	13,400	8,500
Accuracy Grade / Clearance Symbol	C7 / H	C7 / H	C7 / H
Axial Clearance [mm]	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
Wiper / Lubrication Unit	LUBSEAL™	LUBSEAL™	LUBSEAL™
Lubricant	Multemp LRL No.3	Multemp LRL No.3	Multemp LRL No.3
Maximum Rotational Speed [min ⁻¹]	5,000 DN ≤ 100,000	5,000 DN ≤ 100,000	5,000 DN ≤ 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
AD20054S	20	5	20	36	58	50	10	40	10	47	6.6	44
AD20103S		10				57		47				
AD20202S		20				66		56				

Guide to Model Numbers



● Shaft End Design

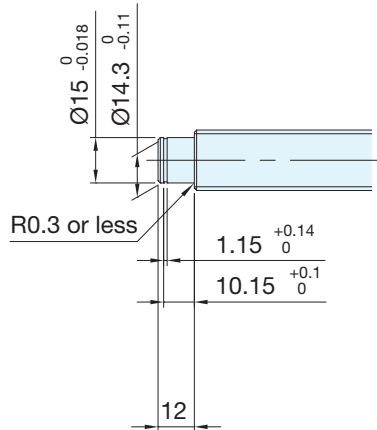
Recommended shaft end configurations are available by size for AD Series ball screws.

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

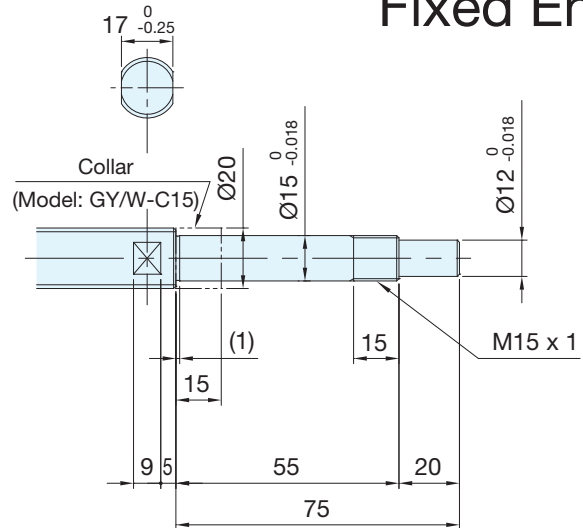
A sample machined shaft end configuration is shown below.

Model example: Shaft end not machined (left page) ⇒ Shaft end machined
 AD20103S-HSSR-0730A ⇒ AD20103S-HSSR-0730 X 0643 -C7H
 ↳ Thread Length
 ↳ Overall Screw Shaft Length

Supported End



Fixed End



● Applicable Support Units

Applicable supported end support units	Applicable fixed end support units
BUK-15S (square) Refer to page 22	BUK-15/BUK-15F (square) Refer to page 22
BUM-15S (round) Refer to page 23	BUM-15/BUM-15F (round) Refer to page 23

● Optional Specifications

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