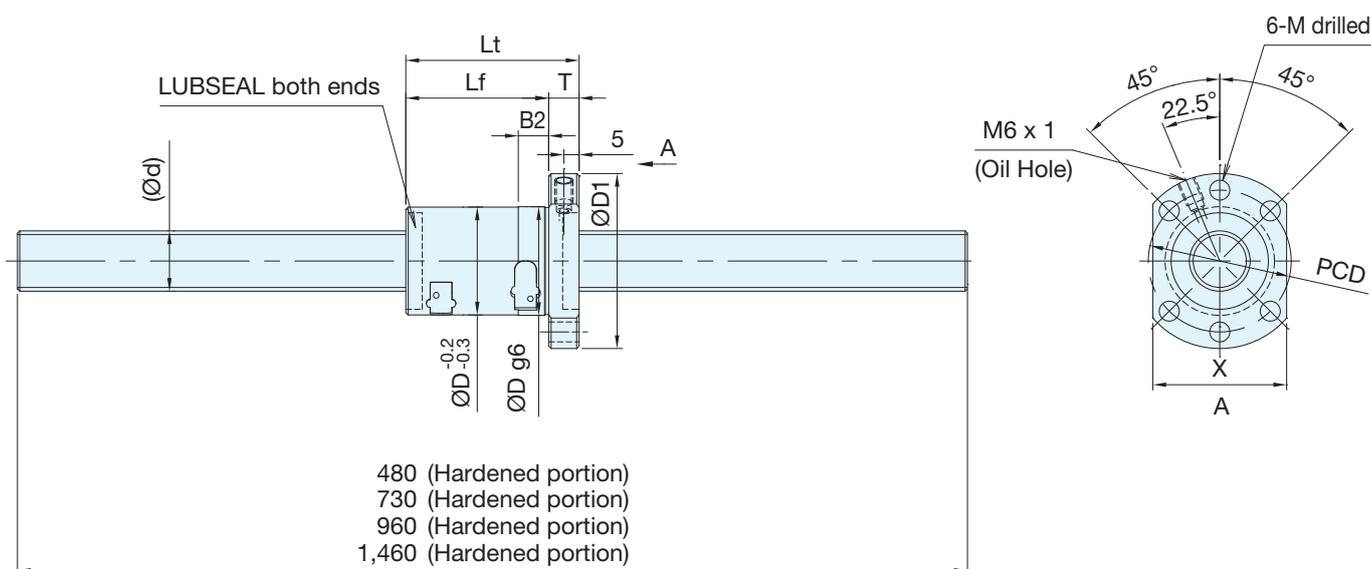


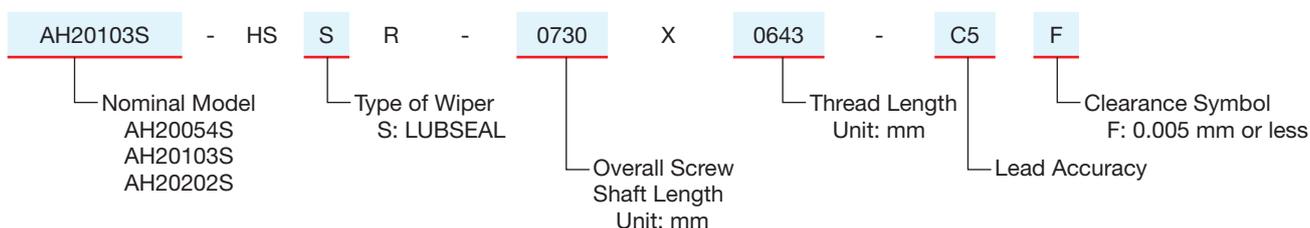
## Ball Screw Specifications

Nominal Model	AH20054S	AH20103S	AH20202S
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]	11,500	8,700	5,700
Basic Static Load Rating C <sub>0</sub> [N]	20,500	14,900	9,400
Accuracy Grade / Clearance Symbol	C5/F	C5/F	C5/F
Axial Clearance [mm]	0.005 or less	0.005 or less	0.005 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 <sup>-1</sup> ]	5,000 DN ≤ 150,000	5,000 DN ≤ 150,000	5,000 DN ≤ 150,000



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
AH20054S	20	5	20	36	58	50	10	40	10	47	6.6	44
AH20103S		10				57		47				
AH20202S		20				66		56				

## Guide to Model Numbers

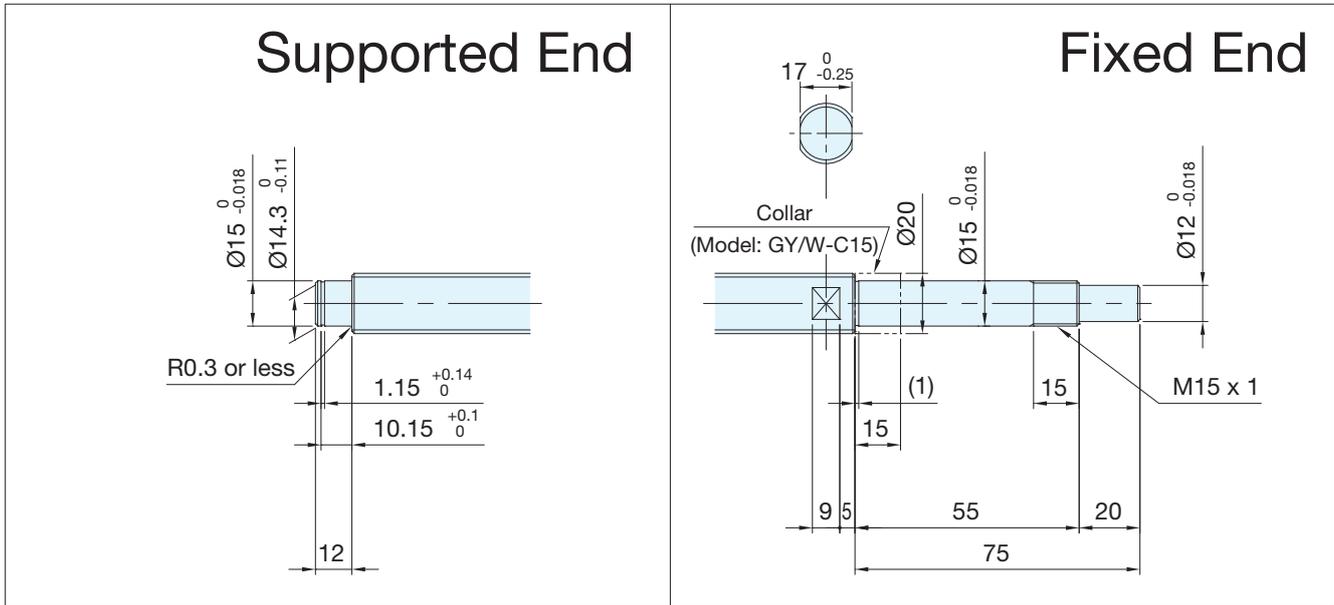


● **Shaft End Design**

Recommended shaft end configurations are available by size for AH 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  
 AH20103S-HSSR-0730A ⇒ AH20103S-HSSR- 0730 X 0643 -C5F  
 ↳ Thread Length  
 ↳ Overall Screw Shaft Length



● **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.