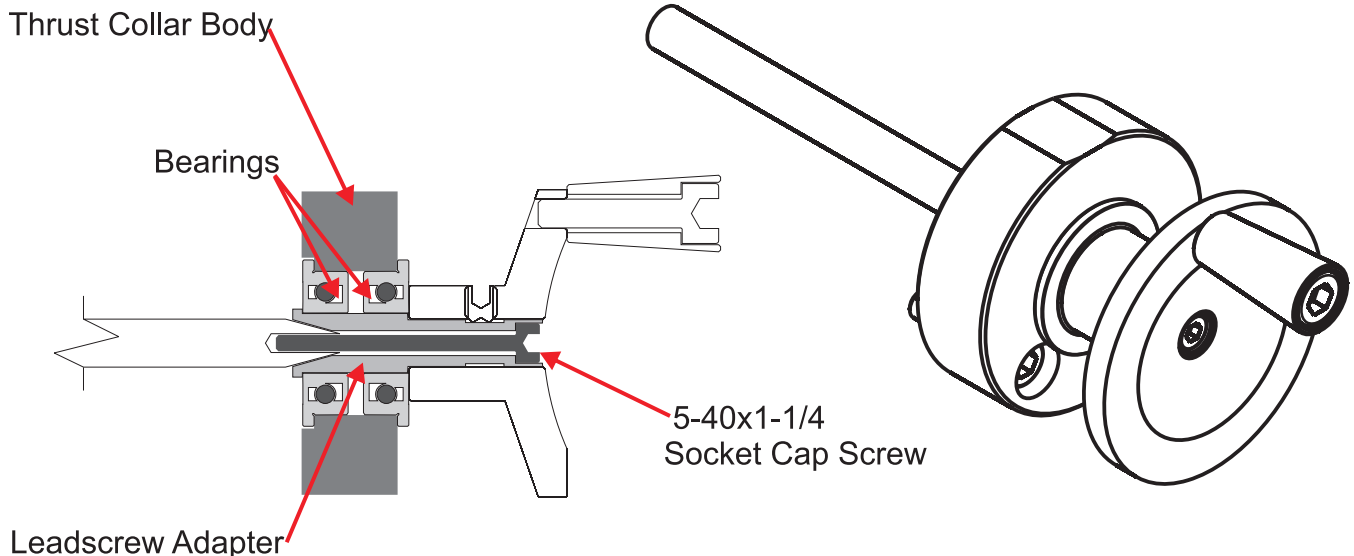# A2Z CNC Ball Bearing Thrust Collar for Sherline

The A2Z CNC Ball Bearing Thrust Collar system requires your X (and Y for mill) leadscrews to use Sherline's newer end system that has been standard since about 2000. You can identify this version by the 5-40 cap screw screwed into the central axis of the screw and holding a top hat style adapter onto the end of the screw. If your machine has the older system which used a clip onto the leadscrew, you will need to replace the screw with the following Sherline part numbers:

	X Inch	Y Inch	Z Inch	X Metric	Y Metric	Z Metric
5X00 Mill	50171	50161	67028	51171	51161	67029
54X0 Mill	50171	54161	67028	51171	54170	67029
20X0 Mill	50171	56161	67030	51171	56151	67031
4X00 Lathe	44211		67024	44221		67025
44X0 Lathe	67210		67026	67221		67027

You will need to replace your Z axis screw with the CNC version that uses the 30 deg taper and 5-40 cap screw to mate with our leadscrew adapter. The Sherline part numbers are listed in the table above.

To install A2Z CNC Ball Bearing Thrust Collars on Sherline lathe or mill:
1 - Remove the hand wheel, factory thrust collar, and leadscrew adapter.

2 - Install the new leadscrew adapter using the included 5-40x1-1/4" cap screw. Do not use any loctite on the 5-40 screw.

3 - Slide the Thrust Collar Body with bearings installed onto the leadscrew adapter. The recessed bearing faces towards the leadscrew.

4 - Secure the Thrust Collar Body to the table/base/slide using the included 8-32 cap screws.

5 - Install your handwheel. You adjust the preload on the bearings by squeezing the handwheel and leadscrew together and then securing the handwheel.

Thrust Collar Body

Bearings

Leadscrew Adapter

5-40x1-1/4
Socket Cap Screw