**Ultrasonic Mount Assembly**

1. The following parts shall be CNC machined, us\_mount\_pn.prt and us\_bottom\_plate\_pn.prt, model files and PDF drawings attached.
2. The critical features on these parts are highlighted in yellow on the PDF prints. These features are critical to allow for relative motion between the plates.

Diagram

Description automatically generated

Diagram, engineering drawing

Description automatically generated

1. The purchased shaft, McMaster part number 1555T121, shall be modified per print us\_1555T121\_Linear\_Shaft\_Draw, to have a 10-24 tapped hole in one end at 0.500” deep. See attached PDF print of modified shaft.

Diagram

Description automatically generated

1. Two press-fit bushings, McMaster part number 3671N137, shall be pressed into the critical holes identified in print us\_mount\_pn. These bushings provide a bearing surface for the linear shaft.
2. The remainder of the components, the shaft clamping collars and stepper motors, shall be assembled per the attached assembly print.

Diagram

Description automatically generated

