



Metal Fabrication



Machine Shop



BARN's Machine Shop is well equipped with manual and computer-controlled machines capable of high precision. Metals and plastics may be cut and formed in the machine shop. The following is a list of equipment in service at this time:

- Delta drill press with tapping function
- Jet horizontal cut-off bandsaw
- Vertical band saw
- Bridgeport M Head with a 9"x32" table. Equipped with X-, Y-, & Z-axis power feeds, and X-, Y-, & Z-axis and quill DROs.
- Lagun FT-1 milling machine (Bridgeport style) with X-, Y-, & Z-axis power feeds and X-, Y-, & Z-axis and quill DROs.
- SERVO bed mill with Centroid-based CNC control. Equipped with 30+ tool library with a corresponding library for Fusion 360.
- GTCNC lathe with Centroid-based CNC control. Equipped with 12+ tool library with a corresponding library for Fusion 360. Machine uses 5C collets. This is a small format machine with no tailstock and a maximum part capacity of 1 inch in diameter and 5 inches in length.
- Hardinge Tool Room Lathe with 3- and 4-jaw chucks, steady rests, and a full complement of 5C collets. With care and attention, this machine is capable of holding below-one-thousand of an inch tolerances.
- Clausing 13" lathe with 3- and 4-jaw chucks, steady rests, a full complement of 5C collets, and digital readouts on its two axes.
- Boyar Shultz 6 x 18 hydraulic surface grinder w/ magnetic chuck.
- Large-format, high-temperature, dual-head 3D printer with a print envelope of 16.5 x 10" x 16" (420mm x 250mm x 400mm). Templates for PrusaSlicer are available for PLA/PLA+ and Poly Carbonate w/ Carbon Fiber filaments.
- CrystalBlast Elite 3.0 media blast cabinet for use on metal and glass.
- Surface plates, height gauges, and an array of micrometers, gauges, dial indicators, and other precision measurement tools.

Additionally, the machine shop is blessed with a full complement of fasteners, cutting tools, and support equipment including an arbor press, hydraulic press, bench grinders, belt grinder, multiple vises, rotary tables, and twist drill sharpener.

Machining Open Studios: Please see out calendar [here](#).