

# Milling Tools

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## Mill Tooling

- Collets (R8)
  - These are used to hold milling cutters (end mills, shell mills, etc...) and are located in a rack attached to the Bridgeport mill.
- Collets (5C)
  - These are used to hold stock in the Spin Indexer to be milled. Currently we have 0.250", 0.375", 0.500", 0.625", 0.750", 0.825", and 1.000" They are located in in a small labelled laser cut wood holder located on the shelf above the machine shop work bench.
- Criterion Boring Head
  - [Manual](#)
  - [Tutorial on proper use of boring head](#)
  - This is located on the workbench in the machine shop. Boring bars are in the same area
- Dividing Head
  - We have a Yuasa 550-030 dividing head. We do not own the tail stock or the center with carrier. We do have a 6" three jaw chuck for this dividing head. The standard division plates are; A-15,16,17,18,19,20; B-21,23,27,29,31,33; and C-37,39,41,43,47,49 The dividing head is stored on the second table in the machine shop.
  - [User manual](#)
- Drill Chuck (R8)
  - These are used to hold tools for drilling operations in the mill (countersinks, counterbores, reamers, twist drills, etc...) and is located in a rack attached to the Bridgeport mill.
- End Mills
  - End mills are consumables (they wear out) so a current list would be too time consuming to maintain; however, our current available supply can be found in a grey cabinet on the machine shop workbench.
- Gauge Blocks (Jo Blocks)
  - [Tutorial on proper use of gauge blocks](#)
  - These are located in the red tool box, in the drawing with the other measuring equipemnt
  - These are expensive precision pieces of equipment and should only be used for calibration of measurement equipment like micrometers, or for layout work like setting up a sine bar. Also, if one block is lost or misplaced, the utility of the set is greatly diminished. Please be especially careful if you need to use these.
- Rotary Table
  - It is located on the hydraulic lift cart.
- Shell Mill
  - The shell mill is located on the workbench in the machine shop area. This uses replaceable inserts, which are located in ...
- Spin Indexer
  - It is located on the hydraulic lift cart.
- Spot Drills
  - Spot drills are consumables (they wear out) so a current list would be too time consuming to maintain; however, our current available supply can be found in a grey cabinet on the machine shop workbench.
- Tilt Table
  - This table addition is for use with the Bridgeport mill or HAAS vertical mill. It has a standard t-slot table which can be tilted +/- 45 degrees so that the mill does not have to be taken out of tram to do complex cutting. It is located on the hydraulic lift cart.