

PRODUCTION EQUIPMENT

Milling Machinery

- 1 **Matsuura H+300 PC11 Horizontal Mill.** 20 hp, 20,000 rpm spindle. 20x20x20" axis travel, 11-pallet flexible cell system, 240 tools. Renishaw MP700 part probe and tool probe with break detection. State of the art in production automation for horizontal machining - designed for low labor lights out operation! **New in 2012**
- 1 **Matsuura H+300 PC5 Horizontal Mill.** 20 hp, 15,000 rpm spindle. 20x20x20" axis travel, 5-pallet flexible cell system, 240 tools. Renishaw MP700 part probe and tool probe with break detection. State of the art in production automation for horizontal machining - designed for low labor lights out operation! **New in 2011**
- 1 **Makino a51-A60 Horizontal Mill.** 30 hp, 12,000 rpm spindle. 22" x 22" x 20" axis travel, dual 400mm pallet changer.
- 1 **Kitamura HX-250iF Horizontal 5-axis Mill.** 10 hp, 15,000 rpm spindle. 12" x 12" x 12" axis travel, dual 250mm pallet changer. Small, high speed and highly precise. Ideal for small parts with close tolerances and complex geometries.
- 3 **Excel PMC-5T18 CNC Vertical Mill.** 5 hp, 10,000 rpm spindle. 20" x 16" x 18" axis travel. Good balance between speed and flexibility in low to medium volume range. Quick programming and setup allow us to handle prototype parts efficiently.

Turning Machinery

- 1 **Tornos ST-26 CNC 9-axis Swiss Screw Machine.** Simultaneous synchronous machining on two 10 hp, 10,000 rpm C-axis spindles. Driven tools for milling complex features radially and axially at both spindles. 12-foot Servo bar load/feeder. 1000 PSI coolant thru both turrets. 1" dia bar thru spindle. **New in 2013**
- 1 **Ganesh Cyclone 52TTM 8-axis Dual Spindel – Dual Turret CNC lathe.** Simultaneous synchronous machining on 30 hp, 6000 rpm C-axis spindles. 16 tools on both turrets, all can be driven by 7.5 hp servo motors. 1000 PSI coolant thru both turrets. 2" dia bar thru spindle. Automatic bar load/feeder. **New in 2012**
- 3 **Ganesh Cyclone 32CS 7-axis Turn-Mill center.** Simultaneous synchronous machining on 10 hp, 6000 rpm main spindle and 5 hp, 6000 rpm sub-spindle. 27 cutting tools including driven axial and radial tools. Full C-axis path control in both main and sub spindles. 1.25" dia bar thru spindle. Automatic bar load/feeder.
- 1 **Emco Maier 345/II CNC Turn-Mill center.** 17 hp, 6300 rpm spindle. Work piece envelope 6" dia x 27.0" long, 1-3/4" dia bar thru spindle.

JACO's facility includes supporting equipment to round out our modern and lean manufacturing operation such as band saws, air compressors, vibratory and centrifugal tumblers, ultrasonic cleaners, tool presetters, etc.