

#### CNC TURNING EQUIPMENT

- 1- **Tsugami BU26 Combination Turret and Gang Slide Swiss Automatic Lathe (1" capacity).** 15hp main spindle, 7.5hp sub-spindle with through feed capability, 6-axis including X1, X2, Z1, Z2, Z3 and Y.
- 1- **Nakamura WT-100 MMY, 7 Axis Twin Turret, Duel Spindles (1-5/8" through the spindle)** Live tooling with C-Axis and Y-Axis. LNS auto bar feeder, high pressure coolant.
- 1- **Nakamura WY-100ii MMY, 7 Axis Twin Turret, Duel Spindles (2" through the spindle)** Live tooling with C-Axis and Y-Axis. LNS auto bar feeder, high pressure coolant
- 1- **Hardinge Quest 10/65SP (Super-Precision) with HydroGlide (2-1/2" through the spindle)** 16 station turret, Sub-spindle, Live Tooling with C-Axis and Y-Axis. The Quest is a Multi-Tasking and Hard Turning CNC Lathe.
- 1- **Hardinge Quest RS 51 MSY (Super-Precision) (2" through the spindle)** 16 station turret, Sub-spindle, Live Tooling with C-Axis and Y-Axis.
- 1- **Wasino Model J5 Larger-Size CNC Turret Lathe, equipped with a quick, built in robot loader.** This is a fully automated turning system that delivers reliable accuracy in high-volume production.
- 1- **Wasino Model J3 Mid-Size CNC Turret Lathe, equipped with a quick, built in robot loader.** This is a fully automated turning system that delivers reliable accuracy in high-volume production.
- 1- **Wasino Model LJ-1 Small-Size CNC Lathe, equipped with a quick, built in robot loader.** This is a fully automated turning system that delivers reliable accuracy in high-volume production.
- 1- **Hardinge Conquest T42 Big Bore (2" through the spindle) precision computer-controlled lathe with tailstock.** 12 Station turret, 12' Hydro barfeed and high-pressure Coolant.
- 1- **Hardinge Cobra 51 (2" through the spindle) precision computer-controlled lathe with tailstock.** 12 station turret, LNS auto bar loader.
- 1- **Hardinge Conquest 42 precision computer-controlled lathe with tailstock.** 13" between centers for making shafts. 1-5/8" capacity with live tooling, for cross / face drilling / tapping. 12" Hydro barfeed and High-pressure coolant.
- 1- **Hardinge Quest CHNC 42 (1-5/8" through the spindle)** with removable 8 station turret plates for quick setup of repeat work. LNS bar feeder

#### CNC MILLING EQUIPMENT

- 4- **Tsugami Lighting FMA3 Horizontal super high-speed precision flexible machining cell with 11 pallets,** 10,000 rpm spindle. Capable of accurate unmanned machining of small-and medium-size parts with minimal non-cutting time.
- 1- **Matsuura MAM72-42V 5-Axis Machining Center with 5 pallets,** 15,000 rpm spindle, 240 position tool magazine
- 1- **Willemin W-408B 5-Axis Bar-Fed Machining Center with automatic back working device,** 30,000 RPM spindle, 24 positions tool magazine. This machine is ideal for small and complex part processing in a single cycle from bar stock.
- 1- **Kitamura Vertical Milling Center Mycenter 3XG with high speed (7 second) 2 station pallet changer,** 15,000 rpm spindle, 18" x 30" table travel and 30 Tool Magazine.

#### EDM

- 1- **Charmilles Robofil 230 submerged Wire EDM,** with a maximum part dimensions 31.5" x 21.65" x 8.66" and travel in X, Y, Z of 13.78" x 8.66" x 8.66. Capable of cutting 30-degree angles with wire sizes ranging in diameters from .004 to .012

#### QUALITY CONTROL EQUIPMENT

- 2- **Brown & Sharpe Automatic Coordinate Measuring machines. (CMM) with PC-DMIS and scanning**
- 1- **Brown & Sharpe Manual Coordinate Measuring Machine (CMM)**
- 1- **OGP Smartscope Flash 200** computerized automatic video measuring system.
- 1- **Keyence IM-7000 Image Dimension Measurement System**
- 1- **TESA Scan 50 Plus**
- 1- **OGP Top Bench Contour Projector.**
- 1- **Nikon Model 20 Measure Scope**