

CNC MACHINING CENTERS

Horizontal Flexible Machining Center

- 2 Makino A77 Horizontal 4 Axis Milling Center, 10,000 rpm.
- Work zone, 35.8" dia x 39.4"
- 3 Makino A66 Horizontal 4 Axis Milling Center 14,000 rpm.
- Work zone 31.5 dia x 35.4
*Pallet Pool System for flexible support to horizontal milling centers, 37 pallet's
- 3 setup, load and unload stations
- Controller/system
- 1 Makino A61 Horizontal 4 Axis Milling Center 12,000 rpm
Work zone, 31.5" dia. x 39.4
- 1 Makino A81 Horizontal 4 Axis Milling Center 10,000 rpm 4 axis
Work zone, 39.4" dia. x 51.2

Vertical

- 1 Makino VNC 106 CNC 4 Axis Machining Center
- X=41 5/16, Y=23 5/8, Z=22
- RPM=3,500
- 2 Makino FTS65 Twin Spindle CNC 4 Axis Machining Center
- Positioning tables with pallet changes (1 machine)
- X=28, Y=20, Z=16
- RPM=10,000
- Table size 44 x 24
- Distance between spindles adjustable from 14 through 18 1/2
- 1 Haas VF-3ssyt with Pallet Changer

Turning/Milling Centers

- 1 Mori Seiki Frontier L I CNC Turning Center
- 9.8 swing, 8" chuck, 21.6 between centers and 3,500 RPM
- 2 Ikegai TCR25 Bar/Chucking CNC Mill
- Turning center 20" swing, 8" chuck, RPM 4,000 and 3,200
- 2 Ikegai AX25N CNC Turning Center
- 23" swing, 10" chuck 32" between centers and 6300 RPM
- 1 Haas SL-30 15" chuck, 39" between centers, 30hp, 3400 rpm.
- 1 Mori-Seiki NZ 2000 T2TY Multi-axis Turning Center. 8" chucks, 5000 rpm, 30 hp each spindle. Live tooling with 6,000 rpm. And a Y travel of 4.3"

Miscellaneous Equipment

- 1 Zoller Tool Presetter with a Saturn 1 Vision System, Bravo 1 Tool Management Option, Ace Precision universal tool clamping spindle.
- 1 DeVleig Tool Setter interfaced to DNC System
- 8 manual milling machines
- 43 drill and tap units
- Blanchard grinding, honeing, lapping, vibrating, deburring, and cleaning room equipment

- Complete tool room with drilling, milling, turning, grinding, and Bluco Modular Tooling Capacity

SUPPORT SERVICES

Quality Assurance support

- 1 Mitutoya KN 815 DCC-CMM, DMIS compatible with Probe Changer
- 1 Wenzel 870 DCC-CMM DMIS Compatible with Probe Changer
- 2 On-Line, 1 Off-line seats of OpenDMIS CMM Programming Software
- 3 Cordax 1000 Manual CMMs
- SQC Pack SPC Software
- GAGE Pack Gage Calibration Software
- Optical Comparitor

Engineering Support

- - AutoDesk Mechanical Desktop CAD software (AutoCad 2006, Mechanical Desktop 2006)
- - Anvil 5000 (2D) CAD software
- - MasterCAM X2
- - Hewlett-Packard Plotter & color printer

Miscellaneous Support

- Engineering Design Services (value added)
- Material Services
- Metal Finishing Services
- - Tumbling
- - Deburring
- Assembly Services
- Parts-Cleaning Services
- Bar Code Labeling Services
- Packaging Services

Advanced On-Line Systems

- Electronic Data Interchange (EDI)
- Distributed Numerical Control (DNC)
- Program transfer, loading and storage
- - Real-time job scheduling
- - Real-time job tracking
- Gage Tracking/Calibration Software
- Real-time Data Collection System



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