



Five Axes CNC Machining , Tooling , EDM

I. STRUCTURES:

- A. 7500 SQ FT MAIN MANUFACTURING FACILITY
- B. 2200 SQ FT OFFICE BUILDING AND LIGHT ASSEMBLY AREA

II. DATA PROCESSING EQUIPMENT:

A. AVAILABLE COMPUTER HARDWARE:

- 1. SERVERS
 - A. WINDOWS 2008 SERVER W/RAID SYSTEMS
 - B. WINDOWS 2003 SERVER RAID BACK-UP SYSTEMS
- 2. WINDOWS XP WORKSTATIONS (4)
- 3. WINDOWS 7 ULTIMATE WORKSTATIONS (14)
- 4. SYSTEM NETWORKED WITH CAT6/7 SWITCHES & CABLING

B. AVAILABLE SOFTWARE (PARTIAL LIST):

- 1. SIEMENS NX 8.0 CAD/CAM
- 2. APTNT/CAM
- 3. SPECTRUM MULTI-DNC SYSTEM W/ WI-BOX LINK BETWEEN SERVER AND MITSUBISHI MACHINE TOOL CONTROLS (VER. 8)
- 4. INFINITY QS STATISTICAL QUALITY CONTROL SYSTEM (VER 4.0) W/ AIR GAGING CALIBRATION AND TRACKING
- 5. JOBOSS PROJECT MANAGEMENT SOFTWARE (VER 11.4)

III. NUMERICAL CONTROL EQUIPMENT:

A. FOUR MITSUBISHI 600 HORIZ MACHINING CENTERS W/ M66S CONTROLS AND DIGITAL AC AXIS MOTOR DRIVES AND SPINDLE

- 1. FOURTH AND FIFTH STACKED ROTARY AXIS
- 2. FORTY TOOL MAGAZINE W/ CAT 50 TOOL HOLDERS W/ RFID TOOL READER
- 3. 30 X 26 X 20 IN MACHINING ENVELOPES
- 4. 20 HP SPINDLE / 5000 RPM
- 5. HI PRESSURE COOLANT THRU SPINDLE
- 6. MP10 RENISHAW TOUCH PROBE
- 7. NC3 RENISHAW LASER TOOL SETTER

B. FIVE MITSUBISHI 200 HORIZ MACHINING CENTERS W/ M66S CONTROLS AND DIGITAL AC AXIS MOTOR DRIVES AND SPINDLE

1. FOURTH AND FIFTH ROTARY AXIS
2. FORTY TOOL MAGAZINE W/ CAT 50 TOOL HOLDERS W/ RFID TOOL READER
3. 24 X 20 X 20 IN MACHINING ENVELOPES
4. 20 HP SPINDLE / 5000 RPM
5. HI PRESSURE COOLANT THRU SPINDLE
6. OMP60 RENISHAW TOUCH PROBES
7. NC3 RENISHAW LASER TOOL SETTER

C. TOOLING AND RELATED EQUIPMENT

1. OVER 1500 CAT50 TOOL HOLDERS
2. PARLEC TMM SERIES 1800 PRECISION TOOL MEASURING MACHINE
TOOL PRESETTER SCREENS / PGC PLUS 6 SOFTWARE / RFID TOOL MANAGEMENT
3. SOUTHWEST IND. TRAK-DPMSX3 CNC BEDMILL 31" X 17"
NMTB40 TOOLING / TRAK ELECTRONIC HANDWHEELS
4. SOUTHWEST IND. TRAK-1840SX CNC LATHE 18" X 40"
10 HP SPINDLE / 150 - 4000 RPM

IV. ELECTRICAL DISCHARGE MACHINING EQUIPMENT:

A. 2 MITSUBISHI M35K1 C7 4 AXIS CNC EDM

1. 30 AMP POWER SUPPLY
2. 32 STATION TOOL CHANGER W/ 20MM 3R HOLDERS
3. 10 IN X 14 IN TABLE TRAVEL
4. 14 IN HEAD STROKE
5. EDM INCEPTION PROGRAMMING SYSTEM
6. OPTICAL TOOL SETTER WITH DRO

B. 1 MITSUBISHI M35J C7 4 AXIS CNC EDM

1. 30 AMP POWER SUPPLY
2. 16 STATION TOOL CHANGER W/ 3R MACRO HOLDERS
3. 10 IN X 14 IN TABLE TRAVEL
4. 14 IN HEAD STROKE

V. HONING EQUIPMENT:

A. SUNNEN ML5000 HORIZONTAL POWER STROKED HONING MACHINE

1. PROGRAMMABLE STROKE W/ AUTOMATIC SIZE CONTROL
2. MULTISTONE MANDREL CAPABILITY W/DIAMOND, BORAZON OR
SUPER-ABRASIVE INSERTS

VI. INSPECTION:

- A. BROWNE & SHARPE (HEXAGON METROLOGY) GLOBAL PERFORMANCE CMM MODEL 7.10.7
 - 1. PCDMIS CAD AND DCC SCANNING MODULE (VER 2011)
 - 2. MOTORIZED FB2 CONTROL SYSTEM
 - 3. FULL THERMAL COMPENSATION
 - 4. LEITZ LSP-X3 ANALOG SCANNING PROBE HEAD
 - 5. 5 STATION TOOL RACK FOR LEITZ PROBE HEADS
- B. MITUTOYO B231 CMM W/ QC5000

VII. PARTS CLEANING:

- A. AQUEOUS PARTS WASHERS W/ 60 PSI POWER FLUSH
- B. PRO ULTRASONIC CLEANING TANK
- C. PARTS RINSE SPRAY BOOTH WITH RO/DEIONIZED WATER
- D. CHEMETALL DETERGENTS AND PRESERVATIVES