



## EQUIPMENT LISTING

### CNC Mills

- One Mazak FJV 35/60 Double Column Vertical 4 Axis Machining Center with Mazatrol M+ CNC Control, Completely Tooled  
Total Table Travel X-axis 60.000 Y-axis 31.400 Z-axis 23.000 A-axis with a 12.000 Chuck. Swing of 17.000 Ø over Table
- One Mazak Variaxis 200, 5 axis High Speed Machining Center with PC-fusion control, 40 Tool Magazine  
X-axis 20"; Y-axis 20"; Z-axis 18"; A-axis 150°, C-axis 360°, high pressure coolant system.
- One Mazak Variaxis 500II with Matrix Control, full 5 axis High Speed Machining Center High Pressure thru Spindle Coolant, Nurbs Interpolation, 40 Tool Magazine  
X-axis 20"; Y-axis 20"; Z-axis 18"; A-axis 150°, C-axis 360°, Mazak 3D High Speed Software, Fine Spline Interpolation, High Smoothing Function.
- One Mazak VCN410A Vertical Machining Center with Matrix control  
X-axis 22.05, Y-axis 16.14, Z-axis 20.06
- One Mazak Vertical Machining, Variaxis 630-5X/2, Full 5 Axis High Speed Machining Center with Matrix Control  
80 Tool Magazine, Thru Spindle Coolant, X-axis 24.8, Y-axis 30.12, Z-axis 20.08, A-axis 150, C-axis 360.
- One Mazak Vertical Machining, VCN 410A2KY, High Speed Machining Center, 30 Tool Magazine, 12000 RPM, Thru Spindle Coolant, Matrix Nexus Control  
X-axis 22.05, Y-axis 16.14, Z-axis 20.08
- One Mazak Vertical Machining, VCN 410A-HS2KY, High Speed Machining Center, 30 Tool Magazine, 15000 RPM, Thru Spindle Coolant, Matrix Nexus Control  
X-axis 22.02, Y-axis 16.14, Z-axis 20.08

### CNC Lathes

- One Mazak Horizontal NC Lathe, Integrex 200-4ST 60" / 1500U, Dual Spindle, High Speed 8 Axis Machining Center, 40 Tool Magazine, 26 Swing, 60 Work piece, High Pressure Coolant, Lower Turret
- One Mazak Horizontal NC Lathe Integrex 100-4ST, Dual Spindle, High Speed 8 Axis Machining Center, Lower Turret, 40 Tool Magazine, 21 Swing, 30 Work piece, High Pressure Coolant
- One Mazak "QuickTurn 15" Turning Center, Completely Tooled Swing Over Bed 10.000 Turn 6.000 Ø x Z 19.000, 2.0 Through Bore
- One Daewoo Puma 400 Long Bed Turning Center, Completely Tooled Swing Over Bed 28.000 Turn 18.700 Ø x Z 82.700, 4.600 Through Bore
- One Mazak "Integrex 200 III S" Dual Spindle, High Speed 8 axis machining center with 640+ fusion control, 40 Tool Magazine, 20 1/2" swing, 40" length of work piece, high pressure coolant system
- One Mazak "Integrex 200 SY" Dual Spindle, High Speed 8 axis machining center with 640 fusion control, 80 Tool Magazine, 20 1/2" swing, 40" length of work piece, high pressure coolant system
- One Mazak "Integrex 100IV ST" with Matrix Control, High Speed 8 axis machining center, 213 PSI Thru spindle, 2nd Spindle C-axis .0001 Deg. Incr., 40 KM Tool Magazine, Automatic Parts catcher, BB206 Chuck Package for 2" bar capacity, CI-C2 Synchronous Function, Mill Turning Function
- One Mazak Nexus QTN200MY w/MATRIX control with high pressure coolant system, Rotary Tool Spindle Speed of 6000 RPM w/ V-type and H-Type Mill Holder

## **CNC Swiss Turn Machines**

- One Star SR20RIIQ with thread whirling
- Two Hanwha XD20H Swiss style turning center

## **CNC EDM Machines**

- One Mitsubishi FHA20S Wire Cut EDM 4 Axis with 64 bit CPU Control System  
Total Table Travel X-axis 19.6, Y-axis 13.7, Z-axis 11.8, U-axis 3.000, and V-axis 3.000
- One Mitsubishi FA10SM Wire Cut EDM 4 Axis with 64 bit CPU Control System  
Total Table Travel X-axis 13.7, Y-axis 9.8, Z-axis 8.6, U-axis 1.25, V-axis 1.25
- One Mitsubishi DWC 200H Wire Cut EDM with Everex 386/25 Computer  
Total Table Travel X-axis 15.700, Y-axis 29.500, Z-axis 10.200, U-axis 1.000, V-axis 1.000
- One Mitsubishi DWC 200HA Wire Cut EDM 4 Axis with Everex 386/25 Computer  
Total Table Travel X-axis 15.700, Y-axis 29.500, Z-axis 10.200, U-axis 1.0, V-axis 1.000

## **Manual EDM Machines**

- One Mitsubishi ED2000M, EDM Drill
- One Mitsubishi EA12V Sinker EDM

## **Jig Grinders**

- One #3 Moore Jig Grinder  
Total Table Travel X-axis 18.500, Y-axis 11.00, Z-axis 17.00
- One #2 Moore Jog Grinder  
Total Table Travel X-axis 16.400, Y-axis 10.500, Z-axis 13.000

## **Surface Grinders**

- One Mattison Horizontal Spindle Hydraulic Reciprocating Surface Grinder 14" x 60" "Z" 19.0
- One Chevalier Horizontal Wet Grinder 12 x 28 "Z" 15.000
- One Chevalier Horizontal Wet Grinder 16 x 40 "Z" 15.000
- One Harig 618 Surface Grinder 6.000 x 18.000 "Z" 9.5 with Rack and Pinion Equipment
- Four Harig 612 Surface Grinders 6.000 x 12.000 "Z" 9.5 with Rack and Pinion Equipment
- One Blanchard Rotary Grinder with 42.000 Table "Z" 16.000

## **ID-OD Universal Grinders**

- One #1 Browne & Sharpe ID-OD Grinder, Range 9.500  $\emptyset$  x 20.000, 14" swing
- One #2 Browne & Sharpe ID-OD Grinder, Range 9.500  $\emptyset$  x 29.000, 14" swing
- One Jones-Shipman OD Grinder Model 1300, Range 9.500  $\emptyset$  x 25.000, 12.700 swing
- One Dedtru 3" max  $\emptyset$  x 12.500 long on a Harig 612 Surface Grinder

## **Welders**

- One 300 AMP Heliarc Welder
- One Miller Maxstar 200 Welder Heliarc
- One Lincoln Precision Welder, Tig 275 Ready Pack
- One LaserStar Technologies 1900 Series Laser Welder

## **Heat Treat**

- One Blue M Drying Oven
- One Cress Electric Furnace w/910 Processor
- One Recco Electric Furnace w/4100 West Processor
- One Cress Electric - Deep Throat