

EXPEDITE PRECISION WORKS' EQUIPMENT LIST

CNC MILLS

1 x Matsuura Horizontal

- H-Plus-405 10 Pallet Cell System
- 12,000 Spindle RPM, 240 Tool Magazine
- Travel X, Y, Z 600MM
- Renishaw Part Probe
- 1000 PSI Thru Spindle Coolant System
- Laser Broken Tool Detection System

2 x YCM NSV-600A

- Travels: X27.5" x Y16.5" x Z18"
- 24 Tools
- Coolant Through Spindle
- 12,000 RPM
- High Speed 24 tool swing arm ATC system
- Renishaw spindle and tool probe
- Spindle temperature control

1 x YCM FX380A 5-AXIS Vertical Machining Center

- 380mm Tilt Trunnion Rotary Table
- Glass Scales on all Axis: X, Y, Z, A, C
- 30 HP Main Spindle
- 12,000 RPM Spindle motor
- Spindle temperature control
- Coolant thru spindle
- Full 5-Axis capability
- Renishaw spindle and tool probe

- High Speed 30 tool swing arm ATC system

1 x YCM NXV-1680A Vertical Machining Center

- Travels: X64", Y30", Z27.6"
- 40 HP Main Spindle
- 12,000 RPM Spindle motor
- Spindle temperature control
- Coolant thru spindle
- 4 Axis capability
- High Speed 30 tool swing arm ATC system

2 x YCM NSV-102A Vertical Machining Center

- Travels: X40", Y23.6", Z23.6"
- 40 HP Main Spindle
- 15,000 RPM Spindle motor
- Spindle temperature control
- Coolant thru spindle
- 4 Axis capability
- Renishaw Probe Omni-T2 receiver
- High Speed 30 tool swing arm ATC system

1 x MATRIX XR510 High Precision/High Speed Vertical Machining Center

- 24,000 RPM
- Spindle Temperature Control Unit
- Travel 20" X, 15.7 Y", 16" Z
- Full 4th Axis
- 2362 IPM Rapid X Axis, 1890 IPM X/Y Axis
- 21 ATC AICC II Contour Control

2 x Haas Super VF-2

- 12,000 RPM

- Travel 30"X, 16"Y, 20"Z
- HA5C Indexer capabilities (4th Axis)

1 x Haas VM2 High Precision/High Speed Vertical Machining Center

- 15,000 RPM
- Travel 30"X, 20"Y, 20"Z
- Full 4th Axis Rotary Table
- Wireless Intuitive Probing System

CNC LATHES

1 x KIA Turn 21

- 20 HP, 4,000 RPM
- 8" Chuck
- Travel X/Z 6.27" x 16.93"
- Max Swing 14.7"
- Bar capacity 1.75"

1 x KIA Super Turn 21

- 20 HP
- 4,000 RPM
- 10" Chuck
- Travel X/Z 8.27" x 16.93"
- Max Swing 21.7"
- Bar capacity 2.56"

1 x KIA KIT 450

- 6,000 RPM
- 6" Chuck

- Travel X/Z 17.7" x 11.8"
- Gang Tooling

1 x HYUNDAI WIA 20 HP

- 3000 RPM
- 10" Chuck
- Travel X/Z 8.27" x 21.7"
- Max Swing 21.7"
- Bar capacity 3.00"
- Programmable Tailstock

1 x HYUNDAI WIA 20 HP

- 4000 RPM
- 8" Chuck
- Travel X/Z 8.27" x 21.7"
- Max Swing 21.7"
- Bar capacity 3.00"
- Programmable Tailstock
- LNS ECO Load Magazine Bar Feeder

CNC SCREW MACHINES

1 x STAR SR20RIV-B

- Full B axis with 3 Front Milling and 3 Rear Milling Units with Live Tooling
- Full C Axis with Sub Spindle and Broken Tool Detector
- 12' LNS Super Hydro Bar - Ø 20MM Bar capacity

1 x STAR SR20R

- 1° Indexing
- Live Tooling

- Ø 20MM Bar capacity with Sub Spindle and 12' LNS Super Hydro Bar

2 x STAR SR20RII

- Full C Axis
- Live Tooling
- Ø 20MM Bar capacity with Sub Spindle and 12' LNS Super Hydro Bar

2 x STAR SB16

- Full C Axis
- Live Tooling
- Ø 16MM Bar capacity with Sub Spindle
- 1 with 12' LNS Super Hydro Bar
- 1 with 12' LNS TRITON-112 Magazine Bar Feeder

1 x NOMURA NN-20J

- 2 Full C Axis
- Live Tooling
- Ø 20MM Bar capacity
- Independent "Y" axis sub-spindle
- 12' LNS Super Hydro Bar
- 4-port high pressure coolant (2000 PSI) with a mist buster

CNC WIRE EDM

1 x SODICK AQL325L

- Travels: X13.7", Y9.8" Z8.6"
- Sodick patented rigid linear motor drive on X, Y, U, V axes
- Heidenhain absolute glass scale feedback X, Y, U V axes
- Repeatability accuracies: +/- .00008"
- Positioning accuracies: +/- .00012"

- 4 axis capability
- Wire diameter range: .004" to .012"
- Auto wire threading system

1 x SODICK VL 600Q

- Travels: X23.62", Y15.75", Z10.63", U/V3.15"
- Sodick patented rigid linear motor drive on X, Y, U, V axes
- Heidenhain absolute glass scale feedback X, Y, U V axes

- Repeatability accuracies: +/- .00008"
- Positioning accuracies: +/- .00012"
- 4 axis capability
- Wire diameter range: .004" to .012"
- Auto wire threading system

MANUAL MILLS

1 x Sharp Mills

- Acu-Rite NC Controls
- Travel 20"X, 9"Y, 18" Z

MANUAL LATHES

1 x Victor Precision Tool Room Lathe

- Digital Readout

SURFACE GRINDING

1 x Kent Three Axis/Hydraulic

- Travel 18"X, 8"Y, 9.5"Z
 - Digital Readout
- Electro-Magnetic Chuck

1 x Kent Tool Markers Grinder

- Travel 15"X, 8"Y, 10.0"Z
- Digital Readout
- Magnetic Chuck

LASER WELDING

1 x Laserstar Industrial Workstation

- G3 (90°) 1900 Series
- 80 Watt, 150 Joule
- Touch Screen Edition
- Integrated Pulse Suppression
- Advanced P3
- Supply Circuit: 208-240v (+/- 5%), 50/60-Hz, 20 Amp, Single Phase
- Platform: Pedestal with Automation Chamber Motion Device
- XYZ THETA Motorized Z Travel: X=4 inch, Y=4 inch, Z=2 inch, 5 LB. Max
- Rotary in Vertical Position
- High Accuracy 1mm/Rev Lead Screws Motorized Rotation With Footswitch Integration Control Soft-Touch Resonator - Generation 2

INSPECTION EQUIPMENT

1 x MicroVu Excel 662UC Automated Vision System

- Macro-programmable ring light
- Automated Rotary Indexer
- Travel: 650mm x 680mm x 250mm z-axis
- LSM1 Laser Kit
- InSpec Metrology Software

1 x Mitutoyo CNC CMM

- Model: Crysta Apex C9106
- Software used: MCosmos Edition 6 (Measurement Software)
- Measurlink Version 6.0 (SPC Software)
- Measurement Capacity: 35.50"X, 39.50"Y, 20.00"Z

1 x Mitutoyo CNC CMM

- Model: Crysta Apex C574
- Software used: MCosmos Edition 6 (Measurement Software)
- Measurlink Version 6.0 (SPC Software)
- Measurement Capacity: 19.88"X, 27.75"Y, 15.94"Z

1 x Optical Comparator w/ Digital Readout

- Deltronic DH214 (14" screen) • 0.0001" Resolution Digital Readout
- Profile and Surface Illumination
- Measurement Capacity: 10.00"X, 6.0"Y

1 x Instron 3345 Single Column Testing System

- Can perform Tensile, Compression and Shear Testing
- 5kN (1125 lbf) capacity with 100:1 force range
- 1123 mm (44.2 in) vertical testing space
- Bluehill Lite Machine Control and Data Acquisition Software



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DEBURRING EQUIPMENT

1 x Super Shot Boy

- Model: SB-10
- Cryogenic Deflashing and Deburring System
- Nitrogen System
- Deburrs Metal and Plastic Components