
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 NXV-600A Vertical Machining Center
 - Travels: X27.5", Y16.5", Z18"
 - 12,000 RPM Spindle motor
 - Spindle temperature control
 - Coolant thru spindle
 - Renishaw spindle and tool probe
 - High Speed 24 tool swing arm ATC system

- 2 x YCM NFX 400A **5-AXIS** Machining Center
 - Renishaw spindle and tool probe
 - 350mm 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
 - 3D Dynamic Tool path Graphics
 - 1,000 PSI Coolant Thru Spindle
 - 60 Tool capacity
 - Full 5-Axis capability

- 1 x YCM FX 380A **5-AXIS** 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
Programmable tail stock
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 KIT 450 6,000 RPM
6" Chuck, Travel X/Z 17.7" x 11.8"
Gang Tooling

- 1 x HYUNDAI WIA HD 2200C
Programmable tail stock
10" Chuck, 4000 RPM
30HP

- 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

CNC SCREW MACHINES

- 1 x STAR SR 38B
38MM Bar capacity
7,000 RPM
B Cross milling 3 Front 3 Back
Live tooling

- 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 AL 40G

Sinker EDM
Linear motor drive
X, Y, Z Travel: 15.75" x 11.81" x 10.63" (400 x 300 x 270 mm)

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 Mill Centers

With Acu-Rite NC Controls

1 x Sharp Mill Center

With Acu-Rite X, Y, Z CNC Controls

MANUAL LATHES

1 x Victor Precision Tool Room Lathe
With Digital Readout

SURFACE GRINDING

1 x Kent Three Axis/Hydraulic
Travel 18"X, 8"Y, 9.5"Z
With Digital Readout
With Electro-Magnetic Chuck

1 x Kent Tool Markers Grinder
Travel 15"X, 8"Y, 10.0"Z
With Digital Readout
With 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 Starrett Optical Comparator 400 series

20x & 50x magnifications lenses

MX 200 touchscreen digital readout

Measurement Capacity: 16" x 6"

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

CRYOGENIC DEFLASHING DEBURRING EQUIPMENT

1 x Super Shot Boy (Model: SB-10)

Nitrogen System

Deburr Metal and Plastic Components