

FACILITY LIST

CNC MACHINING CENTERS

Mazak 32/604 CNC Machining Center:

60-inch "X" axis
30-inch "Y" axis 30-tool capacity
20-inch "Z" axis

Mazak 30/405 CNC Machining Center:

40-inch "X" axis
30-inch "Y" axis 30-tool capacity
20-inch "Z" axis

Mazak VTC – 200B CNC Machining Centers

32-inch "X" axis
18-inch "Y" axis 30-tool capacity
18-inch "Z" axis

Haas VF9 CNC Machining Center

84-inch "X" axis 40-tool capacity
40-inch "Y" axis CAT 50
30-inch "Z" axis

Mazak Nexus VCN 510C CNC Machining Center:

32-inch "X" axis
18-inch "Y" axis 30-tool capacity
18-inch "Z" axis

Mazak VQC 15/40 CNC Machining Center:

22-inch "X" axis
16-inch "Y" axis
16-inch "Z" axis

Haas VF6SS CNC Machining Center:

64-inch "X" axis 40-tool capacity
32-inch "Y" axis CAT 50
30-inch "Z" axis

Mazak Pallet System with Two Horizontal Machining Centers:

Mazak FH 580 Horizontal Machining Center:

26-inch "X" axis 160-tools
24-inch "Y" axis CAT 40
22-inch "Z" axis

Mazak FH 5800 Horizontal Machining Center:

26-inch "X" axis 80-tools
24-inch "Y" axis CAT 40
22-inch "Z" axis

Robotically fed pallet system with 16 pallets for automatic operation. Capable of 24-hour unmanned production.

Mazak Pallet System with Three Horizontal Machining Centers:

Mazak FH 4800 Horizontal Machining Center:

22-inch "X" axis 40-tools
24-inch "Y" axis CAT 40
22-inch "Z" axis

Mazak FH 4800 Horizontal Machining Center:

22-inch "X" axis 40-tools
24-inch "Y" axis CAT 40
22-inch "Z" axis

Mazak FH 4800 Horizontal Machining Center:

22-inch "X" axis 40-tools
24-inch "Y" axis CAT 40
22-inch "Z" axis

Robotically fed pallet system with 16 pallets for automatic operation. Capable of 24-hour unmanned production.

1,000 psi high-pressure coolant system.



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Mazak Pallet System with a Horizontal Machining Center and a Horizontal Mill/Turn - Vertical Turning Center:

Mazak FH 6800 Horizontal Machining Center:

41-inch "X" axis 120-tools
31-inch "Y" axis CAT 50
35-inch "Z" axis

Mazak 1060 V/6-II Horizontal Mill/Turn – Vertical Turning Center – Simultaneous 5 Axis Operation:

41-inch maximum workpiece diameter
Automatic tool probe
120-tools

Robotically fed pallet system with 24 pallets for automatic operation. Capable of 24-hour unmanned production.

Scale Feedback

High pressure through spindle coolant system.

(2) Doosan HM1250 Twin Pallet Horizontal Machining Centers:

82-inch "X" axis 120-Tools
59-inch "Y" axis CAT 50
59-inch "Z" axis

Rotary table with .0010 index resolution. The table load is 22,000 pounds. Linear scale feedback on all axis.

HNK – HB-130CX Horizontal Boring Mill:

157-inch "X" axis
91-inch "Y" axis
51-inch "Z" axis

Rotary table with .0010 index resolution. The table load is 22,000 pounds. Linear scale feedback on all axis.

Hurco BMC 2416 Vertical Milling Machine:

24-inch "X" axis 24-Tools
16-inch "Y" axis CAT 40
24-inch "Z" axis

Hurco BMC 4020 Vertical Milling Machine:

40-inch "X" axis 24-Tools
20-inch "Y" axis CAT 40
20-inch "Z" axis

Hurco VMX 4020 Vertical Milling Machine:

40-inch "X" axis 24-Tools
20-inch "Y" axis CAT 40
20-inch "Z" axis

Hurco VMX 4020 Vertical Milling Machine:

40-inch "X" axis 24-Tools
20-inch "Y" axis CAT 40
20-inch "Z" axis

CNC TURNING CENTERS

Mazak Integrex 200 IV - 7 Axis Mill/Turn Center:

8-inch diameter main chuck
26-inch maximum swing
Setup for lights-out manufacturing
Robotic Load/Unload
Complete parts manufactured in 1 cycle
120 tool storage capacity
20 millionths resolution



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Mazak Integrex i200S – 5 Axis Mill/Turn Center:

- 8-inch diameter main chuck
- 26-inch maximum swing
- Setup for lights-out manufacturing
- Robotic Load/Unload
- Complete parts manufactured in 1 cycle
- 72 tool storage capacity
- 20 millionths resolution

Mori Seiki SL-3H CNC Lathe:

- 21 inches between centers
- 15-inch maximum turning diameter
- 12-tools ID
- 2.50-through bore of spindle
- 12-tools ID

Multiplex 610 Turning System:

- 32-inch Shaft length
- 6-inch front and back chuck
(Both chucks are full "C" axis)
- Twin Turret for simultaneous machining on both chucks
- Turning and milling on same machine
- Robotic load and unload
- Setup for unmanned operation

PROGRAM SYSTEMS

Centralized Programming System:
GPR uses Griffio Brothers, Camware and Gibbs systems for program storage and retrieval and computer aided manufacturing.

Engineering Software:

GPR runs Solidworks

WATER JET EQUIPMENT

Jet Edge CNC Abrasive Waterjet

MANUAL EQUIPMENT

Lagun Vertical Milling Machine:

- 32-inch "X" axis
- 16-inch "Y" axis
- 6-inch "Z" axis

Hartford Vertical Milling Machine:

- 32-inch "X" axis
- 15-inch "Y" axis
- 6-inch "Z" axis

Victor Lathe:

- 42-inches between centers
- 16-inches over the bed
- 2.44 spindle bore

Victor Lathe:

- 40-inches between centers
- 20-inches over the bed
- 3.125 spindle bore

GRINDING EQUIPMENT

Acer Surface Grinder:

18x36 Capacity

Reid Surface Grinder:

7-inch x 18-inch magnetic table

WELDING EQUIPMENT

- Miller 350 AMP Syncrowave
Welding Machine
- Two Miller 250 AMP Syncrowave
Welding Machine
- Three Acorn Setup Tables



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MISCELLANEOUS EQUIPMENT

Automatic Cutoff Saw:

14-inch capacity
± .005" tolerance on cut length

Kalamazoo Horizontal Cutoff Saw

Automated parts washing system

Vertical Band Saw

20-inch throat capacity

INSPECTION EQUIPMENT

Wenzel Coordinate Measuring Machine:

78-inch "X" axis
39-inch "Y" axis
27-inch "Z" axis

Wenzel Coordinate Measuring Machine:

40-inch "X" axis
20-inch "Y" axis
20-inch "Z" axis

All manual machinery has 0.0005-inch digital readouts.

Mitutoyo Coordinate Measuring Machine:

19-inch "X" axis
27-inch "Y" axis
15-inch "Z" axis

This machine gives us the capacity to measure any component manufactured to 0.00015 inch volumetric.

Faro Arm:

Portable 7-axis CMM with a 9ft diameter span for large components with .0017 volumetric accuracy.

CAM 2 Measurement 10 Software supports reading Parasolid, IGES, VDA and STEP CAD files directly.

OGP Vision System – Smartscope Flash 500

Twelve inch Mitutoyo Comparator:

0.0001 Digital Readout

Brown & Sharp 24" Micro Height 600 with P1 Panel

Brown & Sharp 18" Tesa Height 350

Muller Gauge:

Used to inspect the ID & OD to within .0001

Mitutoyo Surftest Profilometer

Various micrometer sets, verniers, and micrometer styles for inspecting threads, grooves, flanges, and inside bores.

A wide array of pin, ring, and thread gauges for an in-process and final inspection.



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VACUUM TEST EQUIPMENT

Two Leybold Mass Spectrometers (Leak Detectors):

Used to verify vacuum integrity to 2×10^{-9} sec/sec leak rate

Accu-Quad RGA

Two Leybold Roughing Pumps

Edwards 1000 Liter Turbo Pump



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Our inspection facilities are fully temperature controlled, and we have a full complement of deburring apparatus, reamers, drills, end mills, presses, grinders, welding, and heating equipment.

CLOSING STATEMENT

Today, all too frequently, we hear the term quality mentioned casually within the industry. However, the only place it truly matters is in the product. That is where we at the GPR Company have the most pride.

When we commit to a customer, we become committed to making your product, our product. That responsibility is reflected in our state-of-the-art equipment and our responsiveness to becoming your partner in producing for you the highest quality parts possible with a focus on timely delivery.

Our pride in workmanship is a reflection of the caliber of our people. Moreover, our collective mission is to become your most reliable source for outsourcing needs. We welcome the opportunity to provide to you with quotations for upcoming work.