



When Precision Matters

Equipment list

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V&M Precision Machining and Grinding
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www.vm-machining.com

INSPECTION EQUIPMENT

1-CMM, Mitutoyo B231 Comparator, Geopak
1- J&L Comparator-14"
1- Deltronic Comparator 16" w/MPC-5 digital
4- Sheffield Comparators-To .00005 Tol.
1- Cadillac Pla-Check
2- Mitutoyo Height Gages-18", 24"
2- Pacific Gages-16", 23"
1-Weber Master Gage Blocks-82 Pc. Set
1- Etalon Height Gage
4- Mitutoyo Working Gage Blocks-82 Pc. Set
1- Mitutoyo Serf Test 211.
1- "Bruch" Surfindex Finish Gage.
3- Sheffield Air Gages-To .00002" Tol.
2- Federal Dimensionair-To .00005 Tol.
6- Dial Comparators-To .00002 Tol.
3- Brown & Sharp Dial Comparators
1- Starrett Vernier Caliper-36"
2- Van Kuren Thread Wire Sets-4 Thru 64 Pitch
1- Scherr Tumico Stereo Microscope
3- Granite Surface Plates-30" X 60"
1- Concentricity Checker-12" Swing W/36" Centers
2- Sine Plates-5", 10"
2- Mueller Internal Groove Caliper Sets In .0001" Graduations
1- Panametrics Ultrasonic Thickness Gage
1- Misawa Seiki Rockwell Hardness Tester
2- Sets Of Pin Gages-.060" Thru .500" n .001" Increments
2- Mueller Zero Defect Shallow Bore Gages-In .001" Increments
Assorted Dial Gages-To 8" I.D.
Assorted O.D. Micrometers-1" Thru 24"
Assorted Thread Micrometers-To 4"
Inside Micrometers-To 30"
Depth Micrometers-To 6"
Intri-Mics-To 4.200 Dia
O.D. Groover Micrometers-To 6"
Groove Width Checking Micrometers
Groove Location Checking Micrometers
Assorted Thread Plug, Ring & Snap Gages
"V" Blocks-To 6"
Angle Plates-To 12"

GRINDING EQUIPMENT

2- Heald Internal Grinders 45" Dia. X 60" Long – Long Bed 72A
1-Landis External Grinder 10" DIA. X 78" long. -
1-Landis 4H External Grinder 4" DIA. X 18" long -
1-Cincinnati Ext. Grinder 12" DIA. X 48" long – 2U3457
1- Kent Surface Grinder
1-2 Cincinnati #L2 Centerless Grinder 3" Dia
1-2-Cincinnati Cinco 15 Centerless Grinder 4" Dia – 35020005V, 0060
3-Ex-Cell-o Internal Thread Grinder 12" Dia x 60" long. – 9268, 9135, 9054
2-Jones & Lamson External Thread Grinder 18" Dia. X 48" long. – 120357, 120378
1-Jones Shipman – B017255

DRILLING TAPPING

3-Multiple Spindle Drill Press.
1-Bakewell Precision Taper

Misc.

1-Doall Saw-526-97214
1-Amanda HA 250W Horizontal Band Saw.

HONING EQUIPMENT

3-Barnes Vertical Power Hones 6 1/4" Dia. X 40" long

LATHES

3-Warner Swasey No. 5 Turret Lathes
2-Okuma Engine Lathe 20" Dia. X 54" long.- 43091, 13484
1-H.E.S Engine Lathe 24" Dia. X 120" long - 15453
1-H.E.S Engine Lathe 20" Dia. X 20" Dia. X 75" long - 13783
2- Hardinge - HC
3-Whacaeon Lathe 18" Dia. x 60" Long – 22___5, 22, 224171

MILLING EQUIPMENT

- 1-Bridgeport Vertical Mill with D.R.O. - 115500001
- 1-Tree Vertical Mill with D.R.O. - 254063
- 2-Birmingham Vertical Mill with D.R.O. – K3B980232, K3Z9A0233
- 1-OKK Vertical Mill with D.R.O. - 2464
- 1-Kondica Vertical with D.R.O. – SEA26

CNC EQUIPMENT

- 1-Okuma MC5VA CNC 4 Axis Mill 20" x 40" - 0951
- 1-HAAS VF-4B CNC 4 Axis Mill 20" x 50" - 33590
- 2-Okuma LB-15 CNC Lathe 9" Dia. X 16" long – A430, A404
- 4-Okuma Cadet CNC Lathe 9" Dia X 16" long – B582, C133, D666, DO43
- 2-Okuma Crown-SBB Lathe/24hp Animation, 700L Control. – 0918, 0919

CAD/CAM EQUIPMENT

CAD/CAM Work Station, w/ Master Cam Current Rev. 10.0

NEW EQUIPMENT PURCHASED

Mazak Integrex E-410 60 inch length capacity

5 axis (mill/turn) lathe
4 travel +/- 8 inches with 5 axis cutting tool
35 HP, 24 inch swing, 2 10 inch chucks
On Floor, Installed

Awea/Mighty Vertical Machining Center

4 axis, 25 HP, Travel=47 inches x 23 inches x 23 inches
6,000 RPM, Kitagawa Rotary Table
On Floor, Installed

Mazak 200 MSYKY Quick Turn Lathe N/C

35 HP, 10 inch chuck
8 inch sub chuck
Delivery 10/01/2005

Viper VT 2100YMS CNC Lathe

20 HP, 10 inch chuck
Capacity 43.3 inches, Y 2.4 +/- Barfeed
6 inch sub chuck
Delivery 4 weeks, currently negotiating

Mori Seiki – Horizontal Machining Center

NH6300 DCG
2 Pallets
New On Floor, Installed

Mura Seiki – Vertical CNC Machining Center

50 Taper
Table 11 feet X 3 feet 4 inches
New On Floor, Installed