

Delta Machining, Inc.
2361 Reum Road
Niles, MI 49120



Phone (269) 683-7775
Fax (269) 683-3940

Equipment List

<p>Lathes:</p> <p>(1) Mazak Quick turn 35N 40HP Mazatrol T32B Control, 24 position multi-tool turret, 12" chuck, 24" dia. swing, 3.150" hole through spindle</p> <p>(2) Mazak Quick turn 30N 30HP Mazatrol T Plus Control, 11" chuck, 16 position tool turret, 18" dia. swing, 4.000" hole through spindle</p> <p>(1) Mazak M-5 35HP Fanuc 6T Control, 15" chuck, 21" dia. swing, 3.50" hole through spindle</p> <p>(1) Howa 25HP Fanuc 5T Control, 12" chuck, 20" dia. swing, 3.25" hole through chuck</p> <p>(1) Mazak Quick turn 20N 30HP Mazatrol T Plus Control, 8" chuck, 16 tool turret, 16" dia. swing, 2.75" hole through spindle</p> <p>(2) Mori Seki 20HP Vasnac 2,000 G Control, 10" chuck, 20" dia. swing, 2.625" hole through spindle</p> <p>(1) Vertical Lathe 55" high x 72" dia. Bullard</p> <p>(1) Vertical Lathe 36" high x 42" dia. Bullard</p>	<p>CMM Inspection Equipment:</p> <p>Zeiss Contura G-2 Calypso Software with Curve. Vast XT scanning head Measurement Envelope- 1000/1600/600 (X,Y,Z)</p> <p>Zeiss Prismo MASS Calypso Software with Curve. Vast Gold scanning head Measurement Envelope- 1200/1800/1000 (X,Y,Z)</p> <p>Zeiss UMC 850 Calypso Software with Curve. HSS scanning head Measurement Envelope- 850/1200/600 (X,Y,Z)</p> <p>Zeiss Prismo MASS Super ACC Calypso Software with Curve and Freeform Measurement Envelope- 1200/2400/1000 (X,Y,Z)</p> <p>FJ1006 MTI 300 series software Measurement Envelope- 24" high x 24" wide x 40" long</p> <p>Mitutoyo Crysta 9106 Renishaw PH10 Articulating probe, Calypso Software Measurement Envelope- 900/1000/600 (X,Y,Z)</p> <p>QC Calc SPC Software linked to all CMMs</p> <p>Full range of inspection gages, thread gages I.D. or O.D., bore gages, rings, micrometers, and air gages.</p>	<p>Engineering Capabilities:</p> <p>Drawing & Modeling AutoCAD Inventor Solidworks Professional GibbsCAM</p> <p>Printing Capabilities Capable of scanning, copying & printing through E+ documents.</p> <p>File Type Capabilities (Read & Write) PDF, JPEG, DXF, IGES, SAT, STEP, DWG, IPT, IDM, IAM</p> <p>Professional engineering staff capable of casting development, fixture design, and special projects to stream-line production activity.</p>
<p>Grinding Equipment:</p> <p>(2) Blanchard Grinders 100 HP, 60" table, 30" travel head to table</p> <p>(1) Mattison Grinder 100 HP, 42" table, 36" travel head to table</p> <p>(1) Mattison Grinder 60 HP, 42" table, 20" travel head to table</p> <p>(1) Mitsui Grinder 20 HP surface (wet) grinder 16" wide x 28" long variable magnetic chuck</p> <p>(1) Heald O.D. & I.D. Grinder Model# 271, 18" dia. x 36" long capacity</p> <p>(1) Blanchard Grinder 100 HP, 48" table, 15" travel head to table</p>	<p>Lapping Equipment: Hone Machine</p> <p>(2) Face Lap Machines Crane #700 Lapmasters 24" tables, automatic timing lap cycles capable of holding .000011 (2) lightbands on a 10" dia. on a sealing surface</p> <p>(2) Hone Machines Sunnen Hone & Standard Mandrel set and stones Superior Hone model AM with standard mandrel set and stones</p> <p>(1) Broach American HDE-15-66, 15-ton, 72" stroke</p>	<p>Welding Equipment:</p> <p>(1) Miller Dimension 452 600 Amp Tig, mig, stick, flux core (water cooled) 100% Duty Cycle</p> <p>(1) Miller Syncrowave 250 310 amp Tig, stick (water cooled) 100% Duty Cycle</p> <p>(1) Miller CP300 10E Mig (air cooled) 100% Duty Cycle</p> <p>(1) Hypertherm Powermax Burn 900 Plasma Cutting System max 1/2" thick cut</p> <p>Welding/Materials Steel, Stainless, Aluminum, Cast-Iron, Ductile Iron, Stellite & Tool Steel</p>
<p>General Equipment:</p> <p>(1) Bridgeport Mills With power through feed & digital readouts, 24" x 12" tables</p> <p>(1) Proto-Track Bridgeport Mill With Proto-Track 2 axis C-N-C system & glass readout scales</p> <p>(1) Pratt & Whitney Jig Bore Heidennhain glass seals & readouts (.00001) 48" x 24" x 20" travel</p> <p>(1) Kasto Production BandSaw 15hp Auto barfeeder up to 14" dia. x 20' lengths bar capacity</p> <p>(1) WF Wells Production BandSaw Auto barfeeder up to 14" dia. x 20' lengths bar capacity</p>	<p>Material Handling Equipment:</p> <p>(1) 15 ton capacity crane with 50' bridge, 210' rails</p> <p>(1) 10 ton capacity crane with 50' bridge, 210' rails</p> <p>(1) 5 ton capacity crane with 20' bridge, 90' rails</p> <p>(1) 15,000 lb capacity fork lift</p> <p>(1) 5,000 lb capacity fork lift</p> <p>(3) 4,000 lb capacity fork lifts</p> <p>(6) 2,000 lb capacity hand trucks</p> <p>(16) 1,000 lb capacity jib crane and hoist</p> <p>(4) 1,600 lb capacity jib crane and hoist</p>	

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Equipment List

Horizontal Machining Centers:

(4) Mazak FH6800 CNC Horizontal FMS System

- Fusion 640 controls, Intelligent Mazatrol pallet management FMS
- 120 tool magazines total with all (4) machining centers holding 480 tools
- Superflow 2 (1000 psi thru spindle coolant)
- 7,000 rpm spindles (big plus spindle)
- 32 pallets with 4 load and unload stations
- 35HP with 2-speed gearbox for maximum power
- 2,100 feet per minute feed rate

(3) Mazak H650 CNC 30hp Horizontal FMS System

- Mazatrol M Plus control, table load 3,000 lbs,
- 21 station auto pallet pool system,
- machining envelope X -40", Y-31.5", Z-31"
- 120 tool magazine with auto tool changer per machine
- Cat 50 holders, 35 - 7,000 rpm through spindle coolant

(1) H650 CNC Horizontal Machining Center 30 HP

- Mazatrol M Plus control, table load 3,000 lbs,
- 2 station auto pallet shuttle system,
- machining envelope X-40", Y-31.5", Z-31"
- 120 tool magazine with auto tool changer
- Cat 50 holders, 35 - 7,000 rpm through spindle coolant

(3) H630 CNC Horizontal Machining Centers

4th Axis - 30 HP

- Mazatrol M32 control, 6/2 pallet shuttle, pallet size 25"x25",
- table load 2,640 lbs
- machining envelope X-39.4" x Y-32" x Z-29.5"

(1) H25 CNC Horizontal Machining Center

3 Axis w/1 degree index table - 25 HP

- M2 Mazatrol Control, 10 pallet shuttle, pallet size 32"x32", table
- load 3,300 lbs, 10-pallets at 33,000 lbs.
- machining envelope X-43.3", Y-42" , Z-29.5"
- 120 station auto tool changer (Cat 50 Holders) Renishaw tool
- monitor system

(1) AmersaSeiki A50HB CNC

Horizontal Machining Center Full 4th Axis 35 HP

- Fanuc 18i-MB control, 2 pallet shuttle, pallet size 19.69" x
- 19.69", machining envelope X-27.6", Y-25.6", Z-25.6"
- 60 station auto tool changer (Cat 50 Holders) Renishaw tool
- monitor system

(2) Mazak HCN8800-II CNC Horiz. Machining Center

- Nexus controls, Intelligent Mazatrol pallet management FMS
- 57"x 57" part capacity at 4,850 lbs
- 120 tool magazines total with automatic tool changer
- Superflow 2 (1000 psi thru spindle coolant)
- 7,000 rpm spindles (big plus spindle)
- 2,200 feet per minute feed rate

(1) Mazak HCN6800-II CNC Horiz. Machining Center

- Nexus 2 controls
- 120 tool magazines total with automatic tool changer
- High Torque 8,000 RPM Spindle
- Super Flow T8 High Pressure Coolant Unit
- Renishaw OMP60M Optical Probe

Vertical Machining Centers:

(2) Awea SP 3016 25HP CNC Vertical

- Fanuc 18i control
- table load 11,023 lbs. machining envelope X-157" x Y-63" x Z-30"
- 120 tool auto changer (Cat 50 holders)

(2) Mazak AJV-35/60 Double Column Vertical CNC Machining Center

- Mazatrol Cam M32 control, table load 5,500 lbs. table size
- 29.52" x 68.5", machining envelope
- X- 59.05", Y-31.49", Z-20" 60/30 station auto tool changer
- (Cat 50 holders), tool monitor system, machine
- repeatability .00008

(1) Mazak V655 C-N-C 25HP Vertical CNC Machining Center

- Mazatrol Cam M32 control, 2 pallet, table load 5,500 lbs.,
- machining envelope X-78.74", Y-25.59",
- Z-29.5", 80 station auto tool changer (Cat 50 holders)
- Renishaw tool monitor system

(1) Mazak V515 C-N-C 20HP Vertical CNC Machining Center

- M-32 Mazatrol control, 2 pallet, table load 3,300 lbs.,
- machining envelope X-41.33", Y-25.59",
- Z-22.04", 40 station auto tool changer (Cat 50 holders)
- Renishaw tool monitor system

(1) Mazak VTC-20 C-N-C 20HP Vertical CNC Machining Center

- Mazatrol M-PLUS control, machining envelope X-42", Y-
- 24", Z-20", 24 station auto tool changer (Cat 40 holders)

(1) Mazak VTC-41 C-N-C 15HP Vertical CNC Machining Center

- Mazatrol E1A control, 4th axis programmable rotary
- system, machining envelope X-22.04", Y-16.14",
- Z-20.07", 24 station auto tool changer (Cat 40 holders)

(1) Mazak VQC 20/40 C-N-C 15HP Vertical CNC Machining Center

- Mazatrol M-2 control, machining envelope X-40",
- Y-16", Z-20", 30 station auto tool changer. (Cat 40
- holders)

Mill Turn Machining Centers:

(1) Mori Seiki NT5400-1800 Mill Turn C-N-C Machining Center

- Fanuc 3li Control
- 18" chuck, 36" maximum diameter, 78" maximum length

(1) Okuma Mac-Turn 550-W 7-Axis Mill Turn

- 15" Chuck, 28.34" max diameter, 98.62" max length

Delta Machining, Inc. encompasses 77,000 square feet of climate controlled manufacturing space which allows our machining centers to produce cost effective, high precision product.