

### MACHINING FACILITY

136,000 SQ. FT

Material Types: Steel/Cast Iron/Aluminum

Programming Languages: SiemensNX & GibbsCam

Overhead Cranes: 80 Ton - Max. Crane Capacity

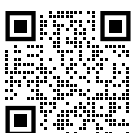
MACHINE TYPE	QTY.	DESCRIPTION	X	Y	Z/W	DIA.	ADDITIONAL DETAILS
Personnel Specialty Services							<ul style="list-style-type: none"> <li>Average Tenure: 10+ Years</li> <li>Manufacturing engineering for process design</li> </ul>
Bridge Mill	5	CNC Bridge Mill	263" 6,680 mm	145" 3,683 mm	39/51" 1,295 mm		<ul style="list-style-type: none"> <li>Tool Changer = 180</li> <li>Spindle Units = 7 including Universal Head</li> <li>3D Compensation Technology</li> <li>Quick Setup Schunk Air System</li> </ul>
Large Bridge Mill	2	Pama CNC Bridge Mill	610" 5,494 mm	240" 6,096 mm	59/83" 2,108 mm		<ul style="list-style-type: none"> <li>Tool Changer = 200</li> <li>Spindle Units = 10 including Universal Head</li> <li>Pallet system with the ability to use both tables together</li> </ul>
Gear Cutting	3	Gear Shaper			18" 457 mm	67.5" 1,715 mm	<ul style="list-style-type: none"> <li>Large gear teeth cutting capabilities for left hand helix, right hand helix and spur gears</li> </ul>
Grinder	1	Surface Grinder	96" 2,438 mm	36" 915 mm	36" 915 mm		<ul style="list-style-type: none"> <li>Grinding plates flat within .0002"/ft</li> </ul>
HMC	3	CNC Horizontal Milling Center	51" 1,295 mm	43" 1,092 mm	49" 1,244 mm		<ul style="list-style-type: none"> <li>Tool Changer = 171</li> <li>2 Pallet System</li> </ul>
HBM	1	CNC Horizontal Boring Machine	288" 7,315 mm	119" 3,022 mm	36/48" 1,219 mm		<ul style="list-style-type: none"> <li>Right angle head</li> <li>2 Tables</li> <li>6" spindle extends out 35" for deep boring. Can be used in combination with the table for a bore length of 83" long</li> </ul>
Lathe	4	CNC Horizontal Lathe			59" 1,498 mm	19.5" 495 mm	<ul style="list-style-type: none"> <li>2 turrets</li> <li>1 tail-stock</li> </ul>
Millturn	2	CNC Mill Turn Center	35" 889 mm	25.6" 650 mm	248" 6,300 mm	38.5" 978 mm	<ul style="list-style-type: none"> <li>Tool Changer = 104</li> <li>2 steady rests</li> <li>Max. turning diameter = 40"</li> <li>Max. Length = 250"</li> </ul>
VMC	4	CNC Vertical Milling Center	138" 3,505 mm	42" 1,066 mm	28" 711 mm		<ul style="list-style-type: none"> <li>Equipped with Blum Laser</li> </ul>
VTL	3	CNC Vertical Lathe		64.9" 1,648 mm		78.7" 1,909 mm	<ul style="list-style-type: none"> <li>Heavy turning parts. 2 heads, 90 degree fixed and 1 universal head for angles, 48 tool changer</li> </ul>

DESCRIPTION	ADDITIONAL DETAILS
Personnel Specialty Services	<ul style="list-style-type: none"> <li>All welders have 6 Certifications based on AWS standard</li> <li>2 American Welding Society (AWS) Certified Welding Inspectors (CWIs)</li> <li>Metallurgical Engineer</li> </ul>
Weld Positioners	<ul style="list-style-type: none"> <li>10 weld positioners capacity range 4.5 ton - 350 ton (4,082 kg - 317,515 kg) - 360 degree travel</li> </ul>
Flame Beveling	<ul style="list-style-type: none"> <li>4.5 ton - 350 ton (4,082 kg - 317,515 kg)</li> </ul>
Forming (750T press brake)	
Band Saw + Iron Worker Capabilities	
Heat Treating, Stress Relief Furnace	<ul style="list-style-type: none"> <li>Max. temperature = 1700°F (927°C)</li> <li>Work envelope = 12' x 27' x 12' (3,658 mm x 8,230 mm x 3,658 mm)</li> <li>Max. table load = 30 tons (16,330 kg)</li> </ul>
Shot Blast	<ul style="list-style-type: none"> <li>Work envelope = 27' x 9.8' x 9.8' (8,230 mm x 2,940 mm x 2,940 mm)</li> <li>Max. table load = 18 ton (16,330 kg)</li> </ul>
Small & Large Assembly Areas	
Prime/Paint & Fill Capabilities	
Plasma Plate Burning	<ul style="list-style-type: none"> <li>Up to 2" (50.8 mm) thick</li> </ul>
Oxy-Fuel Plate Burning	<ul style="list-style-type: none"> <li>Up to 25" (635 mm) thick</li> </ul>
Gas Metal Arc (Metal Core) Weld Processes - .045 FCAW	<ul style="list-style-type: none"> <li>.045"/.0625" (1.143 mm/1.588 mm) give superior deposition rate, penetration and low slag</li> </ul>

**ADDITIONAL VALUE ADDED SERVICES:** Shot Blast, Heat Treating, Forming, Prime/Paint

## QUALITY

MACHINE TYPE	QTY.	DESCRIPTION	X	Y	Z/W	ADDITIONAL DETAILS
CMM	1	Coordinate Measuring Machine	118" 2,998 mm	236" 5,995 mm	78.7" 1,998 mm	<ul style="list-style-type: none"> <li>Scanning Head</li> <li>Articulating Head</li> </ul>
CMM	1	Coordinate Measuring Machine	47.2" 1,085 mm	94.5" 2,400 mm	39.4" 1,001 mm	<ul style="list-style-type: none"> <li>Scanning Head</li> <li>Articulating Head</li> </ul>
Surface Plates	7	Granite Rock Surface Plates	132" 3,353 mm	216" 5,486 mm	31" 787 mm	<ul style="list-style-type: none"> <li>For parts checked with gauges</li> <li>Largest surface plate specifications shown</li> </ul>



**LEARN MORE**  
» TOUR OUR FACILITY



+1 (419) 628-2331 | www.minster.com