



CAPABILITIES STATEMENT

Core Competencies

Machining Systems Corp (MSC) is a woman-owned small business established in 1994. We offer CNC/Manual machining, fabrication/welding, plate rolling, bending, water jet cutting, burnouts, hydrostatic pressure testing, assembly, and more. We are ISO9001: 2015 certified. Our services cater to all major industries like pump/valve, oil/gas, high-power electrical distribution, food/medical process equipment, manufacturing production equipment, specialty structural, and aerospace. MSC specializes in large custom fabrications, from supplying materials to finish machining, post process and testing.

Capabilities

Machining Systems Corp specializes in large part fabrications and machining. MSC can supply material, utilize customer supplied material/castings, provide finish machining of fabrications and castings, provide inspections, conduct pressure testing, and facilitate any required post process (Heat treatment, any surface treatment, and assembly). Machining Systems uses only the highest caliber inspection equipment, which is calibrated per our ISO quality standards. MSC inspects all parts and provides inspection documentation with every order upon request. MSC is dedicated to supply quality parts on time, every time.

- **CNC MILLING / BORING / TURNING**
 - MSC is equipped with, 4-Axis CNC horizontal boring mills, CNC lathes, CNC VTLs (vertical turning lathes), Engine lathes, CNC vertical milling centers with 4th-axis rotary table.
- **WELDING & FABRICATION**
 - Leaders in welding and fabricating pressure vessels, press frames, and machine bases.
 - MIG/TIG/GMAW welders
- **PRECISION MACHINING**
 - Expertise in precision machining of medium to large (up to 40,000 pounds) parts for over 30 years.
- **INSPECTION**
 - Keyence/Hexagon/Romer 3D probe and laser scanning, Mitutoyo/Brown & Sharpe inspection equipment.
 - All parts receive 1st article inspection and inspection documentation.
- **HYDROSTATIC PRESSURE TESTING**
 - MSC is equipped to do hydrostatic pressure testing up to 1500 psi.
- **COMMON & EXOTIC MATERIALS**
 - Extensive experience in stainless steel, cast stainless steel, copper, cast aluminum, aluminum, aluminum bronze, steel, tool steel, tribraze, AR400/500, Inconel, hastelloy, cast iron, austempered ductile iron and plastics.
- **MACHINE ASSEMBLE & ADDITIONAL POST PROCESS.**
 - MSC can assemble machine parts and machinery up to the total weight of 20,000 pounds.
 - Facilitate any post process necessary from Heat Treating, Blasting, Plating, Polishing, Painting/Coating, and more.

Differentiators

We are an industry leading Woman Owned Small Business (WOSB/WBENC) with 30 years experience in large part fabrication and machining. Machining Systems Corp combines old world work ethics with a dedication to state of the art machining technology and knowledge. MSC is strategically located near major shipping corridors 94/294/57/80/65, Calumet, Burns, and Indiana harbors, major rail hubs and air (O'hare and Midway).



Lucy Fudala
PRESIDENT

Henry Peterson
SALES / ENGINEER

CONTACTS

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Comprehensive Large Part Fabrication & Machining

Certifications & Specifications

WOSB (Woman Owned Small Business)

ISO 9001: 2015

American Welding Society Certification:

AWS D14.4-12 Machinery and Equipment

ABS Weld Certified

DUNS: 83-937-9427

CAGE: 4SRM2

Current Employees: 15

Customers

Grundfos - Volute Pumps, Shafts, Frames, and Bases

Pentair - Volute Pumps, Frames, Bases, Shafts, Housings and Flanges

Gardner Denver - Pump/Cylinder Castings

G&W Electric - Pressure Vessels, flanges, adapters plates, copper connectors, bronze castings, aluminum castings, and bus bars.

NAICS Codes

332710 - Machine Shops

332721 - Precision Turned Product Mfg.

332420 - Metal Tank (Heavy Gauge) Mfg.

332312 - Fabricated Structural Metal Mfg.

332996 - Fabricated Pipe & Pipe Fitting Mfg.

332313 - Plate Work Manufacturing

332439 - Other Metal Container Manufacturing

332999 - Product Manufacturing

333111 - Farm Machinery and Equipment Manufacturing

333613 - Mechanical Power Transmission Equipment Manufacturing

336412 - Aircraft Engine and Engine Parts Manufacturing

336415 - Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing

336419 - Other Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing.

336992 - Component Manufacturing

541330 - Engineering Services

Federal Supply Classes (FSC)

1555 - Space Vehicles

1560 - Airframe Structural Components

1675 - Space Vehicle Components

2210 - Locomotives

2210- Rail Cars

SIC CODES

153399 - Primary Metal Products

3441 - Fabricated Structural Metal

3449 - Miscellaneous Metal Work



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PROCESS CAPABILITIES	
Milling	Turning
Welding / Fabrication	Grinding / Polishing
Sheet Metal / Plate Rolling	Bending
3D Laser / Point Scanning	Assembly
Hydrostatic Pressure Testing	PEM Nut Insertion

MATERIAL CAPABILITIES	
Steel (Carbon)	Precious Metals
Stainless Steel (300, 400, Nitronic 50)	Hastelloy
Tool Steel	Inconel
Armor Plate (AR400/ AR500)	Monel
Cast Iron (Grey/Ductile/Duplex/Super-Duplex)	Rubber
Aluminum	Plastic
Copper	Composite
Bronze (Bearing Bronze)	Brass
Titanium	Nickle
Tri-Braze	Aluminum-Brass

Manufacturing Capabilities (Dim. Tolerances, Etc.)	
Milling (192" x 90" x 63" (xyz) Can accommodate bigger x & z with proper fixturing.	3D Laser / Point Scan
Turning (159" Long x 43" ID X 32" OD)	Hydrostatic Pressure Testing up to 1500 PSI
3D Laser / Point Scanning	Assembly



EQUIPMENT LIST	[(#of), #-axis, Make/Model, Type, CNC/Manual, Crane Tonnage, (xyz) Dia x length]
(1) 4-Axis Toshiba BTD-13R22 Horizontal CNC Boring Mill 118" x 90.55" x 63" x 27.55 (xyz) 70.8" x 86.6" table. 5" Dia. Spindle. 22,000 lbs table capacity.	(1) AKYPAK 4 Roll AHS 15/08 Plate roller. 5' Working Length . 3/8" Max Thickness, 5/16" Pre-Bend Max Thickness. 7.5" Top Roll Dia., 4 HP Motor.
(1) 4-Axis Kuraki Horizontal CNC Boring Mill 79" x 59" (xy) 4.3" Dia. Spindle, 63" x 55" Rotary Table 10,000 lbs table capacity.	(1) Smart Machine Tool SL 280M CNC Lathe with Live tooling. 26.37" Swing. 13.39" Max Dia, 44.65" Max Turning Length. 10" Chuck 25hp, 3500 Max Rpm, 3" BAR FEED.
(1) 4-Axis Milltronics HBM110XT Horizontal CNC Boring Mill 80" x 67" (xy) 4.33" Dia, Spindle, .001" indexing. 10,000 lbs table capacity.	(1) 2-Axis JET Lathe 1880 24" GAP, 10" SWING, 80" Between Centers.
(1) 4-Axis Pfeipher Horizontal CNC Boring Mill 100" x 64" (xy) 68" x 68" Rotary table. 5" Dia. Spindle 10,000 lbs table capacity.	(1) 2-Axis TUR 1100MN CNC Flat Bed Lathe. 43.3" GAP, 31" SWING 157" Between Centers.
(1) 4-Axis Sacem Horizontal CNC Boring Mill 63" x 48" (xy) 48" x 60" Rotary Table. 4" Dia. Spindle 10,000 lbs table capacity.	(1) 2-Axis MODERN CHALLENGER BNC-25-120A CNC Flat Bed Lathe. 38.18" GAP, 27.95" SWING 118.11" Between Centers. 6613.86 lbs MAX Work Piece Weight (w/ Tailstock).
(1) SMART SV 5 - Linear Way Vertical 3-AXIS CNC Mill (CAT 40) 10K 25HP spindle. 30 tool mag. 51.18" X, 27.56 Y, 27.56 Z. 57.09 x 26.625 Table. With 4th- Axis Rotary Table.	(2) 2-Axis Feeler FVT-600 Vertical Turning Lathe (VTL). 12" X 25.6" (XZ), 23.6" Max Dia, 25.6" Max Turning height. 15" Chuck, 2000 Max RPM, 12 Position Turret, 2,205 lbs Max Weight.
(1) Miller XMT 456CC/CV Wire Feed, 400 AMP DC MIG/TIG Welder.	(1) 2-Axis Honor Seiki VL-100CRM Vertical Turning Lathe (VTL) with Live Tooling. 47.2" Swing, 53" Max Turning Dia, 34.4" Max Turning Length. 50-2250 RPM live Spindle Speed. 7,715 lbs Max Part Weight.
(1) ESAB Warrior 400i MV CC/CV Multi-Process Welder	(1) Stierli-Bieger 420 CNC Bender. 42-420 kN, 200mm Tool Height, 200/24mm Bend Output, 180 HEA Straightening Power, 3/8" - 2" Bending Gas Pipe. 0- 300 mm Stroke, 4 kW Motor, 0-6 m/min Ram Speed, 1250/850 mm Dia.
(1) Miller Synchro wave 180 SD TIG/STICK Welder	(1) Keyence WM-3500 Wide Area CMM (1) Romer/Hexagon Absolute RA-7535 SEI CMM Arm, with Laser Scanning
(1) Kalamazoo Metal Muncher GB70 70 Ton- Gap bend Hydraulic Punch Press. 9" Throat, 14" Open Height, 7" Stroke Length, Thru 7/8" Max hole thru material. 4 1/2" thru 3/16" max. hole with special tooling. Rated on Mild Steel 65,000 psi (tensile)	Lifting Capabilities - (1) Gantry Crane - 10 Ton - (7) JIB Crane - 1 to 5 Ton - (4) Fork Lifts



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