

OEM Micro offers research and services in microfabrication and micromachining. Our goal is to help our customers keep up with rapid industrial growth. Some of the industries we service are the following:

- Medical
- Aerospace
- Defense Training Systems
- Musical Instrument Components
- Precision Optics
- Electronics
- and more...

OEM Micro offers its customers complete solutions in:

- Design...
- Fabrication...
- Manufacturing...
- and Finishing

We're ready for your challenge in research and development or production.



**For more information, contact:**

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**FABRICATORS, INC.**



OEM Micro is part of OEM Fabricators, Inc. an ISO-certified company. We are unique in our scope of services; no challenge is too great or too small. We're ready for your challenge in research or production.

### **OEM FABRICATORS, INC.**

**OEM Fabricators Family of Companies Includes:**

**OEM Fabricators, Inc.:** an ISO-certified company and winner of the WI Manufacturer of the Year Award. We are unique in our scope of services including; design, fabrication, machining, stress relieving, welding, and finishing for components. Specializing in medium to heavy gauge components.  
300 McMillan Road      1701 Industrial Park Dr.  
Woodville, WI 54028      Neillsville, WI 54456  
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**Midwest Mechanics:** an organization that supports research and development efforts in applied mechanics, in industry and academia. Products and services include the design and fabrication of experimental facilities, design and construction of instruments and probes, contract measurement services, education and training, and consulting in fluid and solid mechanics.  
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**OEM Micro:** offers research and services in microfabrication, micromachining and high-end microscopy inspection methods.

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**FABRICATORS, INC.**



**MICRO**  
FABRICATION MACHINING

## Some of our capabilities:

### Marubeni Citizen-Cincom A32

- Large capacity coolant tank
- Workspace separator
- CS quick wedge
- Centralized lubrication system w/oil level detector
- Synchronous type rotary guide bushing unit
- Main & back spindle collet chuck unit



The A32 Type VII is a state-of-the-art Swiss Turning Center that is strong, powerful and rigid for exceptional cutting performance. It features a rapid feed rate of 45m/min, high-speed processing with the latest NC unit and Citizen's unique streamline control.

Includes a total of 23 tools which allow for great flexibility:

- 4 rotary tools for cross machining
- 6 turning tools on gang tool post
- 9 back turning tools
- 4 front drilling tools

- Maximum machining diameter:  $\varnothing$  32mm
- Maximum machining length: 320mm/1 chucking (Z1 stroke: 325mm)
- Maximum front drilling diameter:  $\varnothing$  12mm
- Maximum front tapping diameter: M12 (cutting tap)
- Maximum chuck diameter of back spindle:  $\varnothing$  32mm
- Maximum workpiece length for front side ejection: 150mm
- Maximum drilling diameter in back spindle:  $\varnothing$  10mm
- Maximum tapping diameter (for back spindle): M10 (cutting tap)



### Marubeni Citizen-Cincom L20

- .79" x 7.78" x .39" (xyz)
- 10,000 rpm (Main Spindle)
- 4,500 rpm (Rotary Spindle)
- 8,000 rpm (Back Spindle)
- Front/Back Off-Center Live Tooling



The Mitsubishi control combined with the Citizen L20 mechanical enhancements offers the quickest and smoothest part manufacturing available.

For parts up to .79" diameter and 7.9" long per chucking.

- |                      |             |
|----------------------|-------------|
| • Contouring         | • Threading |
| • Milling            | • Slotting  |
| • Cross Work         | • End Work  |
| -drilling            | -milling    |
| -off-center drilling | -drilling   |
| -tapping             | -tapping    |
| -reaming             | -reaming    |
|                      | -boring     |

### Citizen L(3)20 Type VII

- Max. machining diameter: 20mm .787"
- Max. machining length per one chuck: 8.1"
- Max. drilling diameter: up to .394"
- Spindle speed: 180-10,000 rpm
- Max. chucking dia. of pick-off spindle: .812"
- Pick-off spindle speed: 200-5,000 rpm
- Pick-off spindle motor: 2 hp
- Min. spindle index: 15 deg (24 positions)

### Micro Milling Equipment Haas Automation

- 12" x 10" x 12" (xyz) 5 hp
- 30,000 rpm ISO 20-Taper Spindle with 20-Tool Carousel
- Accuracy Position .0002"
- Repeatability .0001"



### 14" Horizontal Beam Optical Comparator

- Hardened steel, nickel plated 5"x16" top plate with 2 standard clamping slots
- 4"(y) x 10"(x) travel with 50 lb. load capacity
- Hardened steel and precision ground bearing ways
- .0001"/.002 mm Acu-Rite glass scales. Quick release on X-axis
- Duplex fiber optics, surface illumination
- 5x - 250x magnification capability



### Stereo Microscope Series 377-991A

- Model MSM-464L
- Total magnification: 6.4x-40x
- Eyepiece: 10x(377-456)
- Objective: .6x, 1x, 1.6x, 2.5x, 4x
- Working distance: 89mm
- Field of view: 23mm(w/377-456)



### Experienced In:

- Steel / Alloy Steel - 1018-1045, 8620, 4140, 41L40, 41L50, 43340, 41L42
- Stainless Steel - 303, 304, 316, 15-5, 17-4, 410, 416, 440C
- Red Metals - C360 Brass, Beryllium Copper, Bronze
- Aluminum - 6061, 7075, 2024
- Nonmetallic - Acetal, Polycarbonate/Glass Filled, Teflon, Delrin, Natural Ultem

### Post Machining Services Available:

- Tumble Deburring
- Ultra Sonic Cleaning
- Plating
- Heat Treating
- Special Packaging
- Assembly



FABRICATORS, INC.