



# CAPABILITY STATEMENT

## Prototype thru Production Machining

### ABOUT US

Since 2007, our mission has been **“to provide expert customized service to those with precision machining needs.”**

We **build to print** parts, components and assemblies based on customer provided drawings and technical data packages.

### COMPANY DATA

CAGE CODE: 5CJF8

UEI: GNJYU2JHGD9

DUNS #938478166

Women-Owned Small Business

AS9100 / ISO 9001:2015 Certified

NIST 800-171 Compliant

ITAR Registered

JCP Certified



Michigan Celebrates Small Business  
**50 Companies to Watch**  
AWARD RECIPIENT

### NAICS CODES

**PRIMARY: 332710 Machine Shops**

332312, 332313, 332510, 332721,  
332722, 332994, 332999, 336412,  
336413, 336419, 336992

### CORE COMPETENCIES

#### CNC Machining

- 5-axis CNC Milling
- 6-axis CNC Mill-Turn (sub-spindle, live tooling)

#### Manufacturing Process Engineering

- Custom fixturing/tooling design and build
- Process control design to maintain quality and efficiency for 1- 10,000+ production run quantities

#### Value-Add Services

- In-house: sinker EDM, laser engraving, media blast, light assembly, packaging
- Supplier network: materials, heat treatment, passivate, anodize, etc.

### DIFFERENTIATORS

#### Industry 4.0 Early Adoption

- MES/ERP system for efficient job processing and streamlined process control
- “Lights out machining” via pallet automation systems maximizing capacity while minimizing quality deviation and non-value add hours

#### Staffing

- Skilled workforce model using automation to minimize operator level positions
- 60% of workforce < 35 years old fulfilled through a thriving U.S. Dept of Labor apprenticeship program

#### Capacity

- Redundancy in critical multi-axis machining centers
- Existing infrastructure for instantaneous capacity ramp-up → 10,000 sq ft facility with 4000 sq ft assembly area able to be converted to machining area

#### Location

- Located in Macomb County – the “heart” of Michigan’s defense industry
- Freight shipments nationwide





## CONTACT US

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# EQUIPMENT LIST

## CNC Mills

- 5-Axis: 18" dia. x 12" work envelope
  - (1) Grob G350 w/ pallet pool
  - (1) HAAS UMC-750 w/ pallet pool
  - (2) Brother U500Xd1
- 3-4 Axis: 30" x 40" work envelope
  - (1) HAAS VM3
  - (1) HAAS VM2
  - (1) HAAS TM-1P
- Tolerancing to .0005" with range of equipment grades for right machine for tolerancing requirements
- Typical parts: housings, valve bodies, manifolds, etc. with high feature count and complexity
- Materials: aluminum, stainless steels, titanium, armor plate



## CNC Lathes

- 6-Axis: 0.5 to 2.5" dia. through spindle, up to 8" chucking
  - (2) Eurotech TA20YS
- Y-axis and sub-spindles allow "one and done" parts and unattended production
- Typical parts have off-centered and backside features
- Materials: aluminum, Inconel, stainless steel, titanium



## Value-Add

- Sinker EDM: Charmilles Roboform 30 iRTC
- Part finishing: vibratory tumbling, media blast, ultrasonic cleaning
- Laser engraving: part marking
- Light assembly and packaging



## Quality Lab

- Standard CMM Inspection
  - Hexagon 4.5.4 SF
  - Keyence XM-5000
- Starrett Optical Comparator
- Digital and analog hand gaging
- Custom go/no-go check gaging
- Calibration records for all quality equipment



## Facility

- 10,000 total sq ft
- 4,000 sq ft assembly area with existing utilities for machine expansion
- Prosper-Tech owned

## PAST PERFORMANCE

### Defense

- Prime and sub-contracting machined parts and assemblies to support needs of warfighters for DLA Land & Maritime, ACC-DTA, and ACC-Picatinny.
- Joint Venture under Mettle Craft (CAGE Code 8DWX4) awarded Build-To-Print Multiple Award, Indefinite Delivery, Indefinite Quantity (MA IDIQ) contract for WOSB to provide manufacturing for Combat Capabilities Development Command (CCDC) Ground Vehicle System Center (GVSC), previously known as TARDEC. Total Value: \$19M | Period of Performance: Jan 2020 – Dec 2024

### Aerospace/Space

- Machining parts requiring complex geometries and tight tolerancing
- Design and build custom fixturing/tooling to enable complex geometries and multiple part cutting
- Process control design to maintain quality and efficiency for 1- 10,000+ production run quantities

### Medical

- Machining short-term production runs supporting global prosthetic companies
- Supplier network: materials, heat treatment, passivate, anodize, etc.