Full-Service Precision Machining

Company Quick Highlights

- 35 Team Members
  - 20 Machinist
    - Milling – 13 with over 250 years of experience
    - Turning – 7 with over 150 years of experience
  - 4 Quality Team Members
  - 5 Manufacturing Support
  - 1 Welder
  - 5 Office Staff – Leadership, Quoting, Scheduling, Purchasing, AP/AR
- 38,000 SQFT Facility of Office, Manufacturing, Quality, and Warehousing
- Equipment:
  - 20 CNC Mills
  - 10 CNC Lathes
  - 3 CMM's & 1 Vision System
  - 3 Cut Off Saws
- In Business Since 1968
- ISO 9001:2015 Certified May of 2025
- CMMC Level 2 Expected Certification October of 2026
- ITAR
- Industries: Defense, Industrial Equipment, Energy, Robotics
- Local pickup and delivery within the Twin Cities Metro
- Job Shop to Production sized quantities

CNC Milling Machines

- 1 YMC JC10+ High Performance Vertical Machining Center
  - Workspace: 40" x 20" x 21"
  - Automated Tool Changer: 40
  - High Precision 12,000 RPM Spindle
- 2 - DMG Mori Seiki DV5100
  - Workspace: 40" x 20" x 20"
  - Automated Tool Changer: 30
  - Through spindle coolant
- 1 – Enshu 800V
  - Workspace: 100" x 32" x 30"
  - Automated Tool Changer: 40
- 1 – Fortune VCenter-65
  - Workspace: 25" x 16" x 18"
- 1 – JohnFord DMC-2100H
  - Workspace: 80" x 40" x 40"
  - Automated Tool Changer: 24
- 1 – Okuma & Howa – Millac 852V-PF
  - Workspace: 85" x 33.5" x 30"
  - Axis: 5
- 1 – Victor Taichung Vcenter P106
  - Workspace: 44" x 20" x 20"
  - Automated Tool Changer: 30
- 2 – Victor Taichung Vcenter P76
  - Workspace: 30" x 20" x 20"
  - Automated Tool Changer: 30
  - Through Spindle Coolant
- 1 – Victor Taichung Vcenter P106
  - Workspace: 40" x 20" x 20"
  - Automated Tool Changer: 30
- 1 – Victor Taichung Vcenter 102E
  - Workspace: 40" x 20" x 20"
  - Automated Tool Changer: 24
- 3 – Victor Taichung Vcenter 130
  - Workspace: 52" x 23" x 26"
  - Automated Tool Changer: 24
- 1 – Victor Taichung Vcenter 55
  - Workspace: 40" x 20" x 20"
  - Automated Tool Changer: 24
- 2 – Victor Taichung Vcenter 85
  - Workspace: 40" x 20" x 20"
  - Automated Tool Changer: 24
- 2 – YCM NXV1020A
  - Workspace: 33" x 20" x 20"
  - Automated Tool Changer: 24
- Tolerances are dependent on the size and shape of the part to the equipment
  - Tolerances can be held to within +/- 0.0001"
- All CNC Mills are 3-Axis otherwise called out
- Numerous manual mills for sub-work or small quantity orders
- Index heads for mills

CNC Turning Center or CNC Lathes

- 1 – Mazak QT300
  - Length: 48″ x Diameter: 14″
  - Automated Turret: 10 Positions
- 1 – Mazak QT250
  - Length: 42″ x Diameter: 14″
  - Automated Turret: 12 Positions
- 1 – Mazak QTN350-II
  - Length: 48″ x Diameter: 16″
  - Automated Turret: 12 Positions
- 1 – Mazak QTS300
  - Length: 48″ x Diameter: 14″
  - Automated Turret: 12 Positions
- 1 – Miyano BNC-34T
  - Length: 42″ x Diameter: 3″
  - Automated Turret: 12 Positions
  - Bar Feeder: 12′
- 1 – Victor Taichung Vturn NP16
  - Length: 42″ x Diameter: 1.25″
  - Automated Turret: 12 Positions
  - Bar Feeder: 12′
- 1 – Victor Taichung Vturn 36
  - Length: 22″ x Diameter: 13″
  - Automated Turret: 12 Positions
- 1 – Victor Taichung Vturn 46
  - Length: 50″ x Diameter: 26″
  - Automated Turret: 10 Positions
- 1 – Victor Taichung Vturn A16
  - Length: 22″ x Diameter: 4″
  - Automated Turret: 12 Positions
  - Automated Bar Feeder
  - Sub Spindle
- 1 – Victor Taichung Vturn A26Y
  - Length: 22″ x Diameter: 13
  - Automated Turret: 12 Positions

Numerous manual lathes with a length of 3.5′ and a diameter of 14″.

Milling capabilities on numerous lathes.

Quality Department Equipment

- High QA – Quality Software for inspection reports
- 1 – Keyence Instant Measure Machine (IMX): Laser with Camera
  - Workspace: 16″ x 20″
- 1 – Mitutoyo B231 CMM
  - Workspace: 24″ x 27″
- 1 – Mitutoyo Crystal Plus M574 CMM
  - Workspace: 30″ x 47″
- 1 – Numerex 3636-24 DCC CMM
  - Workspace: 36″ x 36″
- 1 – DEA/Diamond 10TA1202 CMM
  - Workspace: 40″ x 40″
- 1 – Enco Mitutoyo NRR
  - Hardness Tester
- 1 – Mitutoyo PH350H
  - Optical Comparator
- Equipment and Gages Calibrated to ANSI/NCSL
- The CMM's can measure larger sized parts outside of their workspace if required

Other Internal Capabilities

- Grinding
- Sand Blasting
- Assembly
- Part Marking
  - 2 SIC Marking – Dot Peening
  - Ink
  - Engraving
- Welding:
  - MIG, TIG, and Flux
  - AWS Certified

Outside Services to Meet Your Company's Needs/Print

- Materials
  - Steel, Stainless Steel, Aluminum, Plastics, Nickel, Brass, Copper…
  - Certification of Raw Materials
  - Domestic DFARS and No Russia & China if required
- Heat Treating
- Non-Destructive Testing
- Plating
- Painting – CARC, wet, and power
- Grinding
- Honing
- Splining
- EDM

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