



CAPABILITIES CARD & FACILITIES LIST

CNC Machining 5-Axis Capability: up to 24.5" x 28.5" x 20" in height
CNC Machining 4-Axis Capability: up to 10" diameter, 34" in length
CNC Machining 3-Axis Cap.: X: 62", Y: 30", Z: 27"; or 24.5" diameter, up to 62" long
CNC Turning: up to 24" diameter and 70" length
CNC Grinding (OD, ID, Flat Surfaces) & **Honing** (Horizontal, Vertical)
CNC Wire EDM
Joining: Welding & Brazing
Production Volumes: Prototype through Medium-to-Large Scale Production
Types of Production: Prototype, Custom, Reserved Capacity, Lights Out

ISO 9001:2015 Quality Assurance
Prompt Quotes & On-Time Delivery
CAD, CAM, CMM
Materials: Ferrous, Non-Ferrous, Exotic Metals, Plastics, Composites
SERVICE: Assembly / Clean Room Assembly & Packaging
SERVICE: Engineering Support
SERVICE: Complex Problem Solving
SERVICE: Stockkeeping & Inventory Management
Customer Strategies: Engineer to Order, Make to Order, Make to Assemble

MILLING

- (4) DMG MORI DMU50 ... *one w/ 10 pallet system*
- (1) DMG MORI DMU75
- 5-Axis**
- (1) DMG MORI DMC75 ... *w/ 3 pallet system*
- (1) ROBODRILL (alpha) - D21LiB5ADV
- (1) ROBODRILL (alpha) - D21LiB5ADV Plus
- (1) SUPERMAX NSV 156 A
- (1) SUPERMAX NSV 102 A
- (1) SUPERMAX NXV 1680A
- (1) SUPERMAX MV 76A
- (2) SUPERMAX NXV 1020A
- 4-Axis**
- (1) SUPERMAX XV 1250A
- (1) SUPERMAX XV 1020A
- &**
- (2) MAZAK HCN-5000 Horizontal Center ... *w/ 24 pallet system*
- (1) MAZAK HCN-4000 Horizontal Center ... *w/ 6 pallet system*
- 3-Axis**
- (1) FANUC ROBODRILL (alpha) - T24iEL
- (1) FANUC ROBODRILL (alpha) - D21MiA5
- (2) FANUC ROBODRILL (alpha) - Ti4iD
- (1) YCM NSV120A w/ 4th axis
- (3) TRAK DPM BED MILL
- (1) ACU-RITE MILL
- (2) BRIDGEPORT rapid feed w/ digital readout

MILL/TURN CENTERS

- (1) NAKAMURA WT300 ... *w/ LNS Bar Feeder*
- (1) NAKAMURA WT150 ... *w/ LNS Bar Feeder*
- (2) DMG MORI NLX 2500
- (1) DMG MORI NLX 2500 / 1250 with Steady Rest
- (1) DMG MORI NLX 2000
- (1) YCM Supermax GT300M

WELDING & BRAZING

- MIG Welding
- TIG (Heliarc) Welding
- Sanitary Welding to USDA Specifications
- Purge Welding
- Low Temp Welding
- Fuse Welding
- Torch Brazing
- Soldering

GRINDING & HONING

- Okamoto Surface Grinder 16-32 DX
- Harig Super 618 Surface Grinder
- Norton OD Grinder
- Sunnen Automatic Vertical Honing
- Sunnen Automatic Horizontal Honing

MARKING & ENGRAVING

- Trumpf TruMark Station 5000 4-Axis Laser
- LectroEtch Marking

TURNING

- (2) NAKAMURA-TOME SC250 ... *w/ LNS Bar Feeder*
- (2) NAKAMURA-TOME TMC-15
- (1) NAKAMURA-TOME TMC 15 ... *w/ Spago Turnamic 126 Bar Feed*
- (1) YCM TC 36W
- (1) DMG MORI EcoTurn 450
- (1) SHARP 1880-80" with Newall Readout
- (2) TRAK 2460 24" Lathe
- (1) WEBB 17" with Digital Readout
- (2) BRIDGEPORT EZ Path

WIRE EDM

- Sodick VL400Q wire EDM
- Sodick VL600QH wire EDM 19.6" height

ADDITIONAL EQUIPMENT

- Titan Series CNC Router ... *4' x 8' capacity*
- Band Saws ... *up to 12" diameter*
- Plastics Saw
- Chop Saw
- Diamond Wheel Abrasive Saw
- Empire Media Blasting Cabinet
- Tumblers
- 40 Ton Press
- Large leak testing tank to confirm weldment integrity

QUALITY ASSURANCE

- FAI / AQL -- Documentation, Reporting & Data Retention
- QA Certs -- Quality Conformance Certificates
- CMM -- Carl Zeiss Spectrum with RDS (2)
- CMM -- Brown & Sharpe Microval
- XRF -- Hitachi X-MET8000 Optimum Handheld Analyzer
- CMM VISION SYSTEM -- Keyence IM8030
- COMPARATOR -- Mitutoyo with Quadcheck
- TOOLMAKERS MICROSCOPE -- Mitutoyo Toolmakers Microscope
- HEIGHT -- TESA Micro-Hite (4) ... *16-24"*
- HEIGHT -- Height Gauges
- HARDNESS -- Hardness Tester
- VERNIER CALIPERS ... *full Sets (from 4" to 6 feet)*
- MICROMETERS ... *full sets*
- GAUGE BLOCKS ... *full sets*
- PINS ... *full sets*
- BORE GAUGES -- Dial Bore Gauges to 16"
- BORE GAUGES -- Sunnen Bore Gauges ... *full sets*
- THREAD GAUGES ... *full sets*
- PLUG GAUGES ... *full sets*
- RING GAUGES ... *full sets*
- SURFACE ROUGHNESS -- Mitutoyo Surface Roughness Gauge
- GRANITE SURFACE PLATES ... *from 18" square to 3' x 5'*

"More than Parts: Partnership."