
Full Service Tool Room

(8) Bridgeport EZ-Trak SX mills
2D CNC/manual
Amada Meister V3 CNC surface and form grinder
6" x 18" table
2 axes plus table axis
10 wheel management system
(10) Surface grinders
Maximum table size: 16" x 32"
Moore Model G18 jig grinder
Table: 11" x 24"
Travel: 11" x 18"
20, 40 and 60,000 RPM spindle heads
RSF Electronics digital readout
DedTru 388 centerless grinding system
Maximum work height: 7"
Maximum work length: 12"
(5) Drill presses
Maximum radial arm length: 4'

Metal Stamping

** All presses include press automation, die protection and automatic coil feed line*

Multiple air presses ranging 6-12 tons
30 ton Bruderer BSTA30 press*
60 ton Minster with 2" stroke, up to 400 SPM*
75 ton Bliss C2 single stroke gap frame press*
88 ton Minster OBI press
100 ton Bliss*
100 ton Minster Piece-Maker straight side press*
Bolster: 31" x 48" - SPM: 0 to 120
Maximum stock: 12" wide x .130" thick
100 ton Minster Piece-Maker straight side press*
Bolster: 31" x 60" 0 SPM: 0 to 250
Maximum stock: 14" wide x .240" thick
175 ton Bliss SG2 straight side press*
Bolster: 30" x 84" - SPM: 30 to 60
200 ton Komatsu OBW gap frame press*
Bolster: 33" x 95" - SPM: 0 to 50
Maximum stock: 18" x .187" thick

Wire EDM

Agiecut Progress VP3

Maximum Travel: 19.68" (X) x 13.77" (Y) x 16.77" (Z)

Maximum Work piece: 41.3" x 26.6" x 16.77" high

Minimum wire diameter: .006"

Achievable tolerance: <.0001"

(2) Agiecut Progress VP2

Maximum Travel: 13.77" (X) x 9.84" (Y) x 10.87" (Z)

Maximum Work piece: 29.52" x 21.65" x 9.84" high

Minimum wire diameter: .003"

Achievable; tolerance: <.0001"

Agie 250 HSS

Maximum Travel: 15.74" (X) x 9.84" (Y) x 9.88" (Z)

Sodick K1C hole drilling EDM

Hole diameter range: .012" - .120"

All wire EDMs cut fully submersed and feature automatic threading

EDM room is climate controlled

Fabrication

Safan 300-4100, High speed electric brake press

- Press capacity: 330 tons x 161" length capacity
 - Auto sheet thickness measuring and 6-axis back gauging
- Trumpf TruBend 5085 CNC press brake
- Press capacity: 85 tons x 87" bending length
- Bystronic, Xpert 40 high speed brake
- Press capacity: 44 tons x 40" bending length
 - 3X faster working speed than other hydraulic brakes
- (2) Trumpf 5030 Fiber Laser - TruFlow 5000 watt laser
- Max sheet 60" x 120"
 - Auto loading/unloading for unattended operation
 - cuts 3x faster than Co2 in materials under 3/8" thick
- Trumpf TruPunch 1000 punching machine
- Maximum punching force: 20 tons
 - Maximum punching rate: 600 SPM
 - Maximum sheet size: .250" x 48" x 120"
- 3 Welding Bays
- Lincoln Wire-Matic 140 & 250 welder
 - Lincoln Square Wave TIG 355 welder

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- Federal 100 KVA Spot Welder / 30" throat
 - Americor Plate Roller - 5' x 10 ga capacity
 - Timesaver deburring - 36" wide capacity
 - Haeger HP-6 hardware insertion press Auto-feeder
 - Assembly & Testing stations
 - Overhead crane capacity 5 tons
 - Forklift capacity 5,000 lbs.

CNC Machining

(2) OKK VM5 CNC Vertical Machining Centers

- Travel: 40" (X) x 20" (Y) x 20" (Z)
- 20 tool magazine, 50 Taper
- OKK HM500S CNC Horizontal 4-Axis Machining Center
- Travel: 24.8" (X) x 24.41" (Y) x 27.95" (Z)
- Pallet changer
- 60 tool magazine
- Robo Drill D21LiA5
- Travel: 27.5" (X) x 15.7" (Y) x 13.00" (Z)
- 24,000 RPM Spindle
- 21 tool magazine
- Hurco VM20 with 4th axis
- Travel: 40" (X) x 20" (Y) x 20" (Z)
- 20 tool magazine
- (2) Hurco VMX42 with 4th axis
- Travel: 42" (X) x 24" (Y) x 24" (Z)
- 24 tool magazine
- Hurco VMX64
- Travel: 64" (X) x 34" (Y) x 30" (Z)
- 40 tool magazine
- (2) Haas VF2YT
- Travel: 30" (X) x 20" (Y) x 20" (Z)
- 40 tool magazine
- Samsung SL25BMC/1000 CNC lathe with 3" bar feeder
- Cutting diameter: 14.37"
- Maximum cutting length: 40.16"
- Live tooling for drilling and milling operations
- Samsung SL20 CNC lathe with 2.6" bar feeder
- Cutting diameter: 11.80"
- Maximum cutting length: 20.50"
- (2) Samsung SL15 CNC lathe with 1.8" bar feeder
- Cutting diameter: 11.80"

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- Maximum cutting length: 11.80"
 - Maximum swing: 17.70"
 - Bar capacity: 1.8"
Aquamaster Conveyorized Parts Cleaner CB-1200E
 - 12 x 12" capacity
Crystal Clean Heated Aqueous Parts Cleaner
 - 24 x 24 x 4.5" capacity

CAD/CAM Software

- SolidWorks
- AutoCAD with Diemaker
- FASTFORM
- DRBLANK
- GibbsCAM
- Esprit

Quality Assurance ISO 9001:2008

- SmartScope Flash 200 video measuring machine
- Measuring range: 8" x 8" x 6"
- Accuracy to <.0001" (3.2 microns)
Brown & Sharpe FX7107 Global automatic CMM
- PC DMIS 4.3 software
- Measuring range: 25" x 39" x 25"
Brown & Sharpe Micro Excel 765 CMM
- Measuring range: 30" x 26" x 20"
Virtek Laser QC 1200
- Measuring range: 8" x 48" x 48"
Romer Arm Model 7540
- Measuring range: 13.1 feet
Mitutoyo LH600 Computerized Linear Height Gage
- Measuring range: 24"
OGP 14" Focus Contour Projector - 10x to 50x
Jones & Lamson FC14 Optical Comparator - 10x to 100x
Imada ZTS-550 Digital Force Gauge
Hipot testers