

Capabilities & Equipment

Full Service Tool Room

(7) 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

(12) Surface grinders
• Maximum table size: 16" x 32"

Moore Model G18 jig grinder

Aquamaster Conveyorized Parts Cleaner CB-1200E
• 12 x 12" capacity

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(5) Drill presses • Maximum radial arm length: 4'

Part Cleaning

Aquamaster Conveyorized Parts Cleaner CB-1200E
• 12 x 12" capacity

Crystal Clean Heated Aqueous Parts Cleaner
• 24 x 24 x 4.5" capacity

Apex 2052M-DSSDc Deburring Machine
• Max Part Width: 52"

Wire EDM

(2) 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
• 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
• Achievable tolerance: < .0001"

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

CAD / CAM Software

Solidworks
LogoPress 3
AutoCAD with Diemaker
FASTFORM
DRBLANK
GibbsCAM
Esprit

Fabrication

(2) Trumpf 5030 Fiber Lasers - 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"

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

Bystronic, Xact Smart 160 high speed brake
• Press capacity: 160 tons x 120" bending length

9 Welding Bays - 2 Robotic Weld Cells
• Miller: MillerMatic, Invision and Dynasty MIG & TIG Welders
• OTC: P400L, P500L MIG Welders
• OTC P500L Robotic Welder
• IPG LightWELD 2000XR Laser Welder
• Stud & Spot Welders

Americor Plate Roller - 5' x 10 ga capacity
Marvel 380 Automatic Saw
Timesaver deburring - 36" wide capacity
(2) Haeger HP-6 hardware insertion press Auto-feeder
Haeger 824 OneTouch-5e 2 Bowl Pem Machine
Assembly & Testing stations
Overhead crane capacity 5 tons
Forklift capacity 10,000 lbs.

Capabilities & Equipment

Metal Stamping

200 ton Komatsu OBW gap frame press*

- Bolster: 33" x 95" - SPM: 0 to 50
- Maximum stock: 18" x .187" thick

175 ton Bliss SG2 straight side press*

- Bolster: 30" x 84" - SPM: 30 to 60

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

100 ton Bliss*

80 ton Minster OBI press

StamTec G2 160-V Press

60 ton Minster with 2" stroke, up to 400 SPM*

30 ton Bruderer BSTA30 press*

Greenerd HPB-15 and HPB-25 Hydraulic Presses
Multiple air presses ranging 6-12 tons

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

Quality Assurance

Keyence Image Dimension Measuring System IM-7030

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

- 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

InspecVision Planar P220

Hexagon's Global FX 7107 CMM

Hexagon Shop Floor 343 CMM

(3) Optical Comparators

Trimos Linear Height Gage

Mitutoyo LH600 Computerized Linear Height Gage 24"

Imada ZTS-550 Digital Force Gauge

CNC Machining

Kitamura HX400iG/500 CNC Horizontal 4-Axis machining center

- 400mm Pallet
- Travel 24" (X) x 24" (Y) x 24" (Z)

OKK HM500S CNC Horizontal 4-Axis Machining Center

- Travel: 24.8" (X) x 24.41" (Y) x 27.95" (Z)
- 500mm Pallet

(2) Robo Drill D21LiA5

- Travel: 27.5" (X) x 15.7" (Y) x 13.00" (Z)
- 24,000 RPM Spindle
- 21 tool magazine

Brother S1000X1

- Travel: 39.4" (X) x 19.685" (Y) x 11.8" (Z)
- 21 tool magazine

OKK VM5 CNC Vertical Machining Centers

- Travel: 40" (X) x 20" (Y) x 20" (Z)
- 20 tool magazine, 50 Taper

(2) Hurco Vertical Machining Centers

- Travel up to 64" (X) x 34" (Y) x 30" (Z)

Haas VF2YT

- Travel: 30" (X) x 20" (Y) x 20" (Z)
- 40 tool magazine

Haas VF-5SS

- Travel: 50" (X) x 26" (Y) x 25" (Z)
- 50+1 tool capacity
- TR210, 5 axis trunnion

Trak2op

- Travel: 14" (X) x 12" (Y) x 17" (Z)
- 8 tool capacity

CNC Turning

Eurotech B438 Rapido Sub-Spindle lathe with live tooling

- Dual turrets with Y-axis travel
- 1.50" Bar capacity

Hyundai LM1800TTSY CNC lathe with 2.6" bar feeder

- Sub-spindle lathe with live tooling and Y-axis travel
- Maximum length: 26.5"

(4) Samsung CNC Lathes

- Up to 3.00" bar feeder
- Live tooling