



Equipment List

Machining

Double-Column

- Okuma mcr-a5c, 11' x 27'; max table capacity 98" x 307" and 77,000 pounds

Five-Axis

- Mazak Variaxis 500-5x II
- Mazak Variaxis 630-5x II
- (3) Anderson Mass 5, 12' x 26' x 3.9' Working Envelope

Vertical Machining Centers

- HAAS VF-11
- Mazak MTV-655 / 50 N
- Mazak VTC250D / 50
- Mazak VCN 410B
- Two - Mazak VCN 510C II (pallet changer)
- Two - HAAS VF-1
- Two - HAAS VF-3
- Haas VF-9 Vertical Machining Center
- VTEC 20' x 15' x 55" Vertical Bridge Mill
- Onsrud - Vacuum Table - 15' x 35'
- Onsrud Vacuum Table 10' x 20'

Horizontal Machining Centers

- Makino A-92 (pallet charger)
- Makino A-51 (pallet changer)
- Mitsubishi M-HT 11
- Parpas Dinamika Horizontal Boring Mill X- 355", Y- 122", Z- 63"
- G&L 6' x 8' x 20' Horizontal Mill

CNC Turning

- Mori Seid NL-2500 SY
- Mori Seid CL-25
- HAAS SL-2D (tallstock)
- HAAS SL-2D (bar feeder)
- HAAS HL-2 (tallstock)
- HAAS HL-2

Manual Machinery

- Three - Bridgeport vertical mills
- K&T vertical mill
- Browne & Sharpe horizontal mill
- Track Torch

Cutting and Bending Process

Mitsubishi 4020 RX Fiber Laser
LT8.10 Fiber Automated Tube Laser
TruPunch 5000
Hydraulic brake presses

- Bystronic Xpert 320
- Bystronic PR 200 x 4100
- Diamond BB013
- Xpert 40

Welding

195 - Calibrated Welding Machines

- Lincoln sub-arc TC3 carriage with 60,000 pound weight capacity, 70' x 5' x 3' envelope capacity
- MotoMan HP30-ACC with two 1,000 pound ive-axis manipulators, 8' x 2' x 3' envelope capacity

12 - Single and Dual-Arm Robotic Welding Cells

- Four - Panasonic VR2 robots with dual 2,000 pound manipulators with 12' x 6' x 3' envelope capacity
- Two - Panasonic PA 42 robots with 2' x 2' x 2' envelope capacity
- Fanuc R-j3lb with dual 2,000 pound manipulators and dual robot arms with 12' x 6' x 3' envelope capacity

120,000 square foot of TIG welding area

Chemical Agent Resistant Coating

60,000 square foot automated powder coating / wet coating CARC paint line

- Blast, prime, paint, and powder coat
- Polyurethane, water, and epoxy-based paints
- Military and commercial requirements
- 2,100 foot conveyor capable of handling 6,000 pounds per part
- Six-stage pre-treatment for steel
- Ferrous and non-ferrous metals
- Custom part marking and part packaging
- Part sub-assembly, part assembly, and part kitting

Large part drive-through paint booth, 20' x 20' x 60'

- Steel grit blast booth (on line)
- 16' x 30' garnet blast booth (off line)
- 16' x 30' glass blast booth (off line)
- 18' x 20' blast booth
- 100' x 20' x 20' rail car capable enclosed paint room

Lifting Capacity

20 - overhead cranes

53 -Jlb cranes with hook heights of 12' and lifting

capacity of 1 ton; 40 ton transfer car from fabrication bay to paint area