



A & E MANUFACTURING COMPANY, INC.  
*Precision Sheet Metal Fabricators*

This list constitutes a current overview of A&E facilities. To maintain our high standards there is a constant review and upgrading of equipment.

Employees: 65  
Building Size: 70,000 Sq. Ft.

A&E Manufacturing Company, Inc. offers the following facilities for the production of precision sheet metal components and assemblies for the electronics, computer, medical, and space industries.

### **ASSEMBLY DEPARTMENT**

- 1 Haeger 824 Window Touch, auto feed press
- 3 Haeger automatic feed presses
- 2 Pemsarter automatic feed presses
- 1 Pemsarter manual feed press
- 1 Auto Sert automatic feed press
- Miscellaneous pneumatic and hydraulic equipment to handle panel and modular cabinet assembly

*\*\*\*Above presses are pneumatic-hydraulic for installation of PEM fasteners. All have 4 and 5 ton ram force, 3" to 8" variable stroke, which corresponds to 5 1/2" to 1/2" anvil heights.*

### **PLATING AND PAINTING DEPARTMENT**

- Caustic etch with clear chromate conversion for aluminum, passivate for stainless steel
- Five stage iron phosphate system 6' x 4' x 4'
- 1 DeVILBISS 10' x 6' x 10' spray booth
- 5 Binks 7' x 7' x 8' spray booths
- 3 electrostatic spray guns
- 2 industrial baking ovens, Genrich & Genrich 8' x 12'
- Enamels, epoxies, vinyl, polyurethane, waterbase, etc.

### **POWDER COATING**

- 2 - 10' x 10' x 6' deep powder coat booth
- 2 - Gema Volstatic PGC Powder Gun unit
- 18' CIS-CAN Catadyne infrared oven with Richard Wilcox power and free monorail system

### **SILK SCREEN DEPARTMENT**

- Equipment and capability to do art and photo work and make all required silk and stainless steel screens. Photo lab includes 40" x 30" camera.

### **ENGINEERING DEPARTMENT**

- Merry Mechanization SMP/IS
- SolidEdge
- CREO Element Direct 2/3-D Access
- CREO Element View

*\*\*\*Ability to convert all 3D models*

### **QUALITY CONTROL AND INSPECTION DEPARTMENT**

- Virtek Laser QC Model 1200 with a scanning table of 48" X 48" (1220mm X 1220mm), accuracy of  $\pm 0.002$  ( $\pm 0.05$ mm) and can scan parts up to 1" (25 mm) thick to a maximum weight of 200lbs (90kg)
- Equipment and experienced personnel for all model, first piece and production runs.

## **PRESS AND SHEAR DEPARTMENT**

### *SHEAR CAPACITY TO 8' x 1/4" MILD STEEL*

- 1 Amada, 6' x 1/4"
- 1 Amada, 6' x 1/4" – automatic sheet stacker
- 1 Wysong, 4' x 3/16"
- 1 Pexto, 3' x 16 Ga., foot operated

### *TURRET PUNCH PRESSES - CAPACITY TO 55 TONS*

- 1 Apelio III 357U, 33 ton capacity, 58 station, 72" x 52" automatic repositioning table, auto index of tools, 1500 watt CO<sup>2</sup> gas laser with Fanuc 16L control
- 1 Apelio III 367U, 33 ton capacity, 58 station, 72" x 60" automatic repositioning table, auto index of tools, 2000 watt CO<sup>2</sup> gas laser with Fanuc 16L control
- 1 Amada Coma, 55 ton capacity, 58 station, 72" x 60" table, auto-index of tools, Fanuc 6m control
- 1 Amada Pega, 33 ton capacity, 58 station, 72" x 50" table, auto-index of tools, programmable automatic load and unload system, Fanuc system 6M control
- 1 Amada Pega, 33 ton capacity, 58 station, 39.37" x 50" table, auto-index of tools, Fanuc 6m control
- 1 Vi pros King 358, High Speed Turret Punch Press, 33 ton capacity, 58 Station with 4 1/2" auto index, 78" x 50" brush table with Fanuc 04PC control. Equipped with ASR 410CR6 shelf auto storage with automatic load and unload system

### *PRESS BRAKES - CAPACITY TO 8' x 135 TONS*

- 1 Amada Promecam, 10' x 125 ton, 32" CNC back gage
- 1 Chicago, 8' x 135 ton, 24" CNC back gage
- 1 Chicago, 10' x 90 ton, 24" CNC back gage
- 1 Amada 6' x 50 ton with back gage 22
- 1 Amada 4' x 30 ton with back gage 24
- 2 Amada, 6 x 80 ton, Hydraulic, 2 axis 24" CNC back gage
- 1 Promecam, 6' x 60 ton, Hydraulic, 2 axis 24" CNC back gage
- 3 Amada, 6' x 50 ton, Hydraulic, 3 axis 22" CNC back gage, bend allowance compensation, large radius calculation, and programmable lift assist for large parts
- Amada, 4' x 25 ton, Hydraulic, 2 axis 22" CNC back gage
- 1 Amada, 2' x 30 ton, Hydraulic
- 1 Amada 8025 NT, 8' x 80 ton, CNC back gage
- 1 Amada RG80, 8' x 80 ton, CNC back gage
- 1 Accupress, 6' x 100 tons, CNC back gage

### *NOTCHING - CAPACITY TO 1/4"*

- 1 Amada, 8 1/2" x 8 1/2" x 1/4" power notcher, digital readout
- 1 Amada, 8" x 8 " x 9/64", power notcher
- 1 Unitool, 6" x 6" x 1/4", press mountable
- 1 Pexto, 6" x 6" x 1/16", hand notcher

### *PUNCH PRESSES- CAPACITY TO 150 TONS*

- 1 Pacific, 150 ton, Hydraulic, 24" x 36", 8" variable stroke
- 1 Federal, 125 ton, OBI, 28" x 40", 4" stroke
- 1 Federal, 45 ton, OBI, 28" x 18", 3" stroke
- 1 Bliss, 30 ton, OBI, double crank, 9" x 18", 3" stroke
- 1 Rotex, 5 ton, 18 station

### *LEVELING AND ROLLING – CAPACITY TO 3/16"*

- 1 American, 6' Roller
- 1 George Fischer Leveling machine – 29 1/2"

### **MACHINE SHOP AND TOOL DEPARTMENT**

- 1 Sodick, VZ500L (LN2W) – Wire EDM – Used for manufacture of precision tooling
- 2 1980 Bridgeport, milling machines, one with digital readout
- 1 Clausing Colchester, lathe, 15" swing x 42"
- 1 1984 MW, tool room lathe, 10" swing x 24"
- 1 1985 Kent, surface grinder, high precision, 12" x 24", fully automatic
- 1 Reid, surface grinder, 6" x 18"
- 1 1984 Amada, CNC horizontal band saw, 10' x 10", automatic feed and clamping, Amada control
- 1 Grab Inc. 18" vertical band saw
- *Miscellaneous drill presses, tapping, and cutoff machine*

### *LASER CUTTING AND CONTOURING MACHINES*

- 1 Amada, Model LC1212 1500watt CO2 gas laser, 50" x 50" automatic repositioning table, Fanuc 16L control
- *See Turret Punch Presses section for information on (2) Turret/Laser Combo machines*

### *DEBURRING, GRINDING, AND POLISHING DEPARTMENT*

- 1 sander top model time saver, 36"
- 1 Cleanomat CL-36-H parts washer
- 1 Ekstrom Carlson sander, 230" x 8"
- 2 Curtis stroke sanders, heavy duty, 274" x 6"
- 1 Oakley stroke side sander, heavy duty, 230" x 6"
- Miscellaneous back stand grinders, buffers, and polishers
- Miscellaneous hand operated polishing equipment

### *WELDING DEPARTMENT*

- 1 Miller MIG – 300 amp
- 5 Miller heli-arc welders, 300 amp
- 1 Linde MIG – 300 amp – portable

### *SPOT WELDING DEPARTMENT*

- 1 100 KVA Taylor-Winfield 3 phase
- 4 100 KVA Federal
- 175 KVA Progressive
- 175 KVA Lors
- 1 75 KVA Alphil
- 1 20 KVA Alphil
- 1 150 KVA Taylor-Winfield 3 phase