A&E MANUFACTURING COMPANY, INC.
PRECISION SHEET METAL FABRICATION SINCE 1967

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Facilities List

A current overview of the equipment A&E uses to produce precision sheet metal components and assemblies for the computer, electronics, medical, telecommunications and transportation industries. To maintain our high standards, we continually review and upgrade our equipment.

~50	70,000+	ISO 9001:2015	Fulcrum Pro
Skilled employees	Square-foot facility	Compliant quality system	Live job tracking

LASER CUTTING & CONTOURING

- **1** Amada BREVIS-1212AJ, 3 kW fiber laser, 50″ × 50″ work area, 7.8″ Z-axis for 3D parts, cuts copper, brass and aluminum, AMNC 3i control
- **1** Amada LCG 3015, 2000 W fiber laser, 60″ × 120″ automatic repositioning table, cuts copper, brass and aluminum, AMNC 3i control

See Turret Punch Presses for our turret/laser combination machine.

PRESS & SHEAR DEPARTMENT

TURRET PUNCH PRESSES · TO 55 TONS

- **1** Amada Apelio III 367U, 33 ton, 58 station, 72″ × 60″ automatic repositioning table, auto-index tooling, 2000 W CO_2 laser, Fanuc 16L control
- **1** Amada Coma, 55 ton, 58 station, 72″ × 60″ table, auto-index tooling, Fanuc 6M control
- **1** Vipros King 358 high-speed turret, 33 ton, 58 station with 4½″ auto-index, 78″ × 50″ brush table, Fanuc 04PC control, ASR 410CR6 shelf storage with automatic load/unload

PRESS BRAKES · TO 10′ × 135 TONS

- **1** Amada HRB 1003 ATC, 10′ × 110 ton, 27.5″ CNC back gage
- **1** Amada Promecam, 10′ × 125 ton, 32″ CNC back gage
- **1** Chicago, 8′ × 135 ton, 24″ CNC back gage
- **1** Chicago, 10′ × 90 ton, 24″ CNC back gage
- **1** Amada 8025 NT, 8′ × 80 ton, CNC back gage
- **1** Amada RG80, 8′ × 80 ton, CNC back gage
- **1** Accupress, 6′ × 100 ton, CNC back gage
- **1** Amada, 6′ × 80 ton, hydraulic, 2-axis 24″ CNC back gage
- **2** Amada, 6′ × 50 ton, hydraulic, 3-axis 22″ CNC back gage, bend allowance compensation, large-radius calculation, programmable lift assist for large parts
- **1** Amada, 6′ × 50 ton, 22″ back gage
- **1** Amada, 4′ × 35 ton, 24″ back gage
- **1** Amada, 4′ × 25 ton, hydraulic, 2-axis 22″ CNC back gage
- **1** Amada, 2′ × 30 ton, hydraulic

SHEARS · TO 8′ × ¼″ MILD STEEL

- **1** Amada, 6′ × ¼″
- **1** Amada, 6′ × ¼″, automatic sheet stacker
- **1** Wysong, 4′ × 3⁄16″
- **1** Pexto, 3′ × 16 ga., foot operated

NOTCHING · TO ¼″

- **1** Amada power notcher, 8½″ × 8½″ × ¼″, digital readout
- **1** Amada power notcher, 8″ × 8″ × 9⁄64″
- **1** Unitool, 6″ × 6″ × ¼″, press mountable
- **1** Pexto hand notcher, 6″ × 6″ × 1⁄16″

PUNCH PRESSES · TO 150 TONS

- **1** Pacific, 150 ton, hydraulic, 24″ × 36″, 8″ variable stroke
- **1** Federal, 125 ton, OBI, 28″ × 40″, 4″ stroke
- **1** Federal, 45 ton, OBI, 28″ × 18″, 3″ stroke
- **1** Bliss, 30 ton, OBI, double crank, 9″ × 18″, 3″ stroke

LEVELING & ROLLING · TO 3⁄16″

- **1** Americon, 6′ roller
- **1** George Fischer leveling machine, 29½″

WELDING

- **5** Miller heli-arc (TIG) welders, 300 amp
- **1** Miller MIG, 300 amp
- **1** Linde MIG, 300 amp, portable

SPOT WELDING

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

ASSEMBLY

- **1** Haeger 824 Window Touch, auto-feed press
- **3** Haeger automatic-feed presses
- **2** Pemserter automatic-feed presses
- **1** Pemserter manual-feed press
- **1** Auto Sert automatic-feed press
- Pneumatic and hydraulic equipment for panel and modular cabinet assembly

PEM insertion presses are pneumatic-hydraulic with 4–5 ton ram force and 3″–8″ variable stroke (5½″ to ½″ anvil heights).

PLATING & PAINTING

- Caustic etch with clear chromate conversion for aluminum; passivation for stainless steel
- Five-stage iron phosphate system, 6′ × 4′ × 4′
- **1** DeVilbiss spray booth, 10′ × 6′ × 10′
- **5** Binks spray booths, 7′ × 7′ × 8′
- **3** electrostatic spray guns
- **2** Genrich & Genrich industrial baking ovens, 8′ × 12′
- Enamels, epoxies, vinyl, polyurethane, waterborne and more

POWDER COATING

- **2** powder coat booths, 10′ × 10′ × 6′ deep
- **2** Gema Volstatic PGC1 powder gun units
- 18′ CIS-CAN Catadyne infrared oven with Richards-Wilcox power-and-free monorail system

SILK SCREEN

- In-house art and photo work; all required silk and stainless steel screens made in-house
- Photo lab with 40″ × 30″ camera

DEBURRING, GRINDING & POLISHING

- **1** Finishline FL4300RDDR deburring machine, 43″
- **1** Timesaver top sander, 36″
- **2** Curtis heavy-duty stroke sanders, 274″ × 6″
- **1** Ekstrom Carlson sander, 230″ × 8″
- **1** Oakley heavy-duty stroke side sander, 230″ × 6″
- **1** Cleanomat CL-36-H parts washer
- Back-stand grinders, buffers, polishers and hand polishing equipment

MACHINE SHOP & TOOLING

- **1** Sodick VZ500L (LN2W) wire EDM for precision tooling
- **2** Bridgeport milling machines, one with digital readout
- **1** Clausing Colchester lathe, 15″ swing × 42″
- **1** MW tool-room lathe, 10″ swing × 24″
- **1** Kent high-precision surface grinder, 12″ × 24″, fully automatic
- **1** Reid surface grinder, 6″ × 18″
- **1** Amada CNC horizontal band saw, 10″ × 10″, automatic feed and clamping
- **1** Grob 18″ vertical band saw
- Drill presses, tapping and cutoff machines

ENGINEERING

- Merry Mechanization SMP/IS
- Solid Edge
- Creo Elements/Direct 2D/3D Access
- Creo View

Ability to convert all 3D models.

QUALITY CONTROL & INSPECTION

- ISO 9001:2015 compliant quality system
- Virtek Laser QC Model 1200: 48″ × 48″ (1220 × 1220 mm) scanning table, ±0.002″ (±0.05 mm) accuracy, parts up to 1″ (25 mm) thick and 200 lb (90 kg)
- Fulcrum Pro live job tracking with digital travelers and step-by-step traceability
- Experienced inspection personnel for models, first pieces and production runs