



EXTRUSION, CUSTOM FABRICATION, FINISHING EQUIPMENT AND PROCESS CAPABILITIES

Engineering

AFCO Engineering utilizes AutoCAD Mechanical 2013, Auto Desk Inventor 2013 software, and Micro-Vu Comparator for generating customer acceptance and manufacturing drawings from supplied data files or sample parts. Master CAM CNC programming software utilized for quick, accurate and reliable programming and quoting.

Extrusion

Extruded products are produced from a 1675-ton Sutton Aluminum Extrusion Press line that includes Log Shear Furnace Granco Automatic Puller Stretcher, Diagnostic Control Monitor and Tempering Ovens.

CNC Machining and Cutting

- Makino, A51 4-axis, Horizontal Machining Center, 12000 RPM spindle.
- Kitamura, HX-400i 4-axis, Horizontal Machining Center, 13000 RPM spindle, 1969 IPM rapid traverse, 1.0 second tool change.
- (2) Kitamura, MyCenter 5X APC Vertical Machining Center, 10000 RPM spindle, 43"x22" Axis X & Y, 1200 IPM rapid traverse, 1.4 second tool change.
- Okuma, MX-55VA, Vertical Machining Center, 11000 RPM.
- Fadal, VMC 4020, Vertical Machining Center, with Extended Z-axis
- Okuma, Crown CNC Lathe, with SMW 2100 Auto Bar Stock Feeder, 2" throat, 48" bar load.
- (3) Fanuc Robodrill, T14ial CNC High Speed Drill/Tap Machine & Pallet Changer, 15000 RPM, 0.9 second tool change, 6000 RPM tapping.
- Fanuc Robodrill, T14ial CNC High Speed Drill/Tap Machine, 15000 RPM, 0.9 second tool change, 6000 RPM tapping.
- Fanuc Robodrill, CX-T21 IEL CNC High Speed Drill/Tap Machine.
- Leadwell LBV-3215 Bridge Type Long Bed CNC Machining Center 10000 RPM, 126"x59"x30" Axis travel.
- Victor 1654 DCM Mini CNC for quick turn prototyping
- Granco Clark Highoutput CNC Precision Finishing Saw
- Kaltenbach, SKC400 NC Precision Saw
- HAAS CNC VF-4SS 12000 RPM

- Scotchman CPO 315 RFA/NF Auto Feed Saw
- (2) Vertical ENCO Band Saws

Fabrication

Capabilities support secondary operations for Cutting, Mitering, Punching, Stamping, Drilling/Tapping, Swaging, Grinding, Deburring, Bending, Sanding, Brush Finishing, Hardware Installation and Polishing with specific equipment such as:

- 150-ton Bliss OBI Press, 8" Stroke, 22" SH
- 75-ton Bliss OBI Press, 6" Stroke, 13.5" SH
- 75-ton Warco OBI Press, 6" Stroke, 13.5" SH
- 45-ton Federal OBI Press
- 45-ton Bliss OBI Press
- Multiple OBI Presses Down to 5-ton Capacity
- 75-ton Heim 12' Wide Bed Break-Press
- 45-ton Heim 12' Wide Bed Break-Press
- Bridgeport 3-axis Mills, Digital Display
- Haeger Fastener Insertion System 618 Plus
- DR4000 Robotic Welding Center
- Rigid 1224 Pipe Threaded capable up to 4.5" O.D.
- Enco 3-axis Mill, Digital Display
- Clausing Colchester 15" Lathe
- (1) Oliver 18" Overarm Saws
- Velox 350 SH-E KMT Saw
- (3) CTD Double Miter Saw
- Rand Bright BH-50 Polisher
- Media Drum & Bowl Tumblers
- (2) Bradex Fiberbrush End Deburring
- ShengShing 36" Wide Belt Sander
- Hossfeld Universal Bender
- Aluminum Welding-Metal Inert Gas (MIG), Tungsten Inert Gas (TIG)
- American Hydraulics Tube Swaging Machine

Inspection Equipment

- Faro Arm CMM
- Digital Linear Length Measuring System to 120" +/- .0005"
- Various coating thickness measuring instruments
- Micrometers, Calipers, Thread gauges, etc.

Finishing

- Anodizing Lines including Satin and Gold
- State of the art Powder Coat Paint Line complimented with an optical part recognition system to ensure optimal coating thickness and repeatable coating quality for parts up to 25 ft.

Automated Packaging

- (2) PFM Horizontal Flow Wrappers
- Hi-Tech Horizontal Shrink Film Wrapper with Heat Tunnel and AutoLabe
- Robot 2001 Robopac Stretch Wrappers.