



www.metalfx.com

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(aka Advanced Manufacturing and Development, Inc.)

Equipment List

Our goal at METALfx is to provide quality products and services that meet the needs and expectations of our customers.

SHEET METAL DIVISION

PUNCH PRESSES & LASERS

	CAPACITY
(2) Bystronics Laser	4000 Watt
(2) Amada Vipros King Automated Cell, 58 Station Turret	48" x 120" Sheet 6-shelf loader
(2) Amada Vipros King Automated Cell, 58 Station Turret	48" x 120" Sheet 1-shelf loader
(1) Amada Vipros 345AI, 45 Station Turret	40" x 50" Sheet
(1) Amada SP-30 CNC Punch Press	30 Ton 18" x 36" Sheet
(1) Sutherland HSD-H-550-144-12 Center Drive Mechanical Two Point Straight Side Press with Coe Servo Feed Line and Pacesetter Quick Die Change System	550 Ton 61" x 145" Bolster
(1) Heim Model S2-200MS Maxi-Stamper Two Point Straight Side Press with Press Room roll feeder	200 Ton 48" x 98" Bolster
(1) Bliss Model C-60-OBS Press	60 Ton 32" x 21" Bolster
(1) Rouselle Model 6A (Open Back Inclinable)	60 Ton 18" x 30" Bolster
(1) Amada Altair Lasers	48" x 96"
(1) Mitsubishi Laser System Model 2012LB	48" x 72" Sheet or Frames

Excellent Selection of Punches and Dies: Over 3000 different sizes and shapes in stock, including many gang punching systems. Tooling catalog available on request.

PRESS BRAKES

(1)	Amada FBD III 1253 Press Brakes with CNC 8-Axis Fully Programmable Ram and Backgage	CAPACITY 125 Ton x 120"
(4)	Amada RG-80 Press Brakes with CNC 4-Axis Fully Programmable Ram and Backgage	80 Ton x 78"-96"
(3)	Amada RG-50 Press Brakes with CNC 2-Axis Fully Programmable Ram and Backgage	50 Ton x 72"-78"
(2)	Amada RG-35 Press Brakes with CNC Fully Programmable Ram and Backgage	35 Ton x 48"

SHEARS

(1)	Amada M-2060 Shears with Programmable Backgaging & Adjustable Pin Stops,	CAPACITY 1/4" x 72" Mild Steel
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MECHANICAL & ELECTRICAL ASSEMBLY

(3)	Mechanical and Electrical Assembly Lines, Multi-Station Conveyorized, Programmable	CAPACITY
(4)	Flexible Assembly Lines, Equipped for Quick Configuration for Product Assembly Requirements	
(3)	ROD-L Hipot Testing Units	
(1)	Pemserter with Autofeed	
(2)	POP Riveting Systems, 2-Station with Auto Feed	
(3)	Milford Rivet Machines	5/32 Dia. Rivet
(7)	Haeger Fastener Installation Machines, 6 Ton & 8 Ton, (4) Units Equipped with Auto Feed System	6 Ton & 8 Ton
(1)	Thor Alligator (Fastener Installation Machine)	9" Throat, 12 Ton

MACHINE SHOP

LATHES

(1) Mori-Seiki SL-1 CNC Lathe

CAPACITY

6" Swing, 10 HP

(1) Tuda Engine Lathe

15" Swing, 30"
Centers

(1) Tsugami Chucker Lathe

6" Swing &
Position Turret

MILLS

(1) Matsuura Tiger MC-510 3-Axis Vertical Machining Center

CAPACITY

20" x 13" Table
Travel

(1) Lagun Vertical Mills

Bridgeport Type
42" x 9" Table

(1) Rutland Bridgeport Type Mill

12" x 22" Travel

DRILLS

(2) Speedy Cut Tapping Machines

CAPACITY

(1) Clausing Automatic Countersink Machine

(5) Drill Presses, Bench Type, 3/4 HP

1" Dia. Cap. in
Mild Steel

SURFACE GRINDERS

(1) Chevalier Surface Grinders, Fully Automatic CNC
Controlled

CAPACITY

8" x 18" Travel

(1) Boyar Schultz Surface Grinder

6" x 12" Travel

(2) Amada Die Grinders

SAWS

(2) Amada Horizontal Band Saws

(2) Powermatic Vertical Band Saws

(1) Kalamazoo Band Saw

(1) Everett Cutoff Saw

(1) Brobo Cold Saw

CAPACITY

1" Wide Blade,
Power Head Feed
8"x14" Cap.

3/4" Blade, 25"
Throat

10" Dia. Abrasive
Saw

14" Dia. Blade

TOOL & DIE MAKING SHOP

MILLS (BRIGEPART TYPE)

- | | CAPACITY |
|---|------------------|
| (1) Samson/Chevalier Mill with Mitutoyo Digital Readout | 18" x 24" Travel |
| (1) Chevalier Mill with Sony Digital Readout and Power Cross Feed | 24" x 36" Travel |

SURFACE GRINDERS

- | | CAPACITY |
|--|-------------------------------|
| (1) Chevalier FSG-1628AD (CNC) Surface Grinder | 16" x 28" Travel
Full Auto |
| (1) Chevalier FSG-618M Surface Grinder | 6" x 18" Travel
Manual |

WIRE EDM

- | | CAPACITY |
|--|----------------------------------|
| (1) Mitsubishi CX-20 Wire EDM Machine with Auto Threader | X = 19.5, Y =
10.5, Z = 13.75 |

LATHES

- | | CAPACITY |
|--------------------------|--------------------------|
| (1) HES 435 Engine Lathe | 16" Swing with 6'
Bed |

DRILL PRESSES

- | | CAPACITY |
|--|--|
| (1) Walker-Turner Heavyweight Drill Press, 1-1/2 H.P. 20" | 1-1/4" Cap in Mild
Steel |
| (1) Lincoln Gear Head Tapping/Drilling Machine, 2 H.P. 24" | 1-1/2" Drill Cap,
1-1/4" Tap Cap in
Mild Steel |
| (1) MAS Radial Arm Drill Presses | 5 Ft. |

BANDSAWS

- | | CAPACITY |
|---|-----------------|
| (1) Victor VARI-SPEED Bandsaw with Welder | 12 x 24 Throat |

MISCELLANEOUS SHEET METAL EQUIPMENT

	CAPACITY
(1) Magnaflux Degausser	24" x 30" x 72"
(2) Amada CS-220 Power Corner Notchers	8- 5/8" x 8-5/8" Capacity, 10 Ga. Mild Steel
(1) Power Rolls	12 Ga. x 48" Long
(1) Power Rolls	14 Ga. x 36" Long
(1) Di-Acro Precision Hand Roller	16 Ga. x 24" Long
(1) Di-Acro Tubing Bender	1- 1/4" Dia. x 10 Ga. Wall Mild Steel
(1) Penn Power Bar & Wire Bender	1/2" Dia. CRS Bar
(1) Penn Bar & Wire Bender	1/4" Dia. CRS Bar
(1) Serpentine Wire Bender	1/2" Dia. CRS Bar
(2) David J Ross Wire Cutter	3 Ton
(1) Double Head Bender	1/2" Dia. CRS Bar

WELD SHOPS

Our Weld Shops are equipped to handle many types of welding, ranging from soldering and brazing to precision welding of stainless steels and aluminum.

	CAPACITY
(2) Lincoln T.I.G. Welders	300 Amps
(2) Thermal Arc 130S T.I.G. Welder	130 Amps
(1) Miller CP300 Welder	300 Amps
(4) Miller Syncro Wave T.I.G. Welders	250 – 300 Amps
(3) Miller M.I.G. Welders	200 – 450 Amps

WELD SHOP Continued

(2)	Lincolnmatic SP 125 Plus	CAPACITY 125 Amps
(3)	H&H Resistance Welders	100/150/50 KVA
(1)	Stryco Resistance Welder	40 KVA
(2)	TRW Stud Welders, Models 60 and 100	½"
(3)	Sets Oxy-Acetylene Torches for Welding and Burning	
(1)	Thermal Arc Plasma Arc Cutting System	31 Amps
(1)	Spectrum Plasma Arc Cutting System	50 Amps
(2)	Acorn Jig Tables – Including tooling	5' x 8'

FINISHING EQUIPMENT

(1)	AEM Finishing and Graining Maching	CAPACITY 36" Wide Variable Feed
(1)	Timesaver Wet/Dry Finishing Machine	36" Wide Variable Feed
(2)	Vibratory Deburring & Finishing Machines (Tumblers)	20" x 20", 24" x 36", & 36" Dia. Excellent selection of abrasive media
(3)	Paddle Sanders	26" x 72"
(1)	Abrasive Grit Blaster Liquid Hone	24" x 24"
(2)	Abrasive Grit Blasters Dry	24" x 48"
(1)	Lindberg Heat Treat Oven	12" x 12" x 7"

PLATING, PAINTING AND SILKSCREENING

CAPACITY

- (1) 137S Steel Cleaner
- (1) Binks Paint Spray System, Semi-Automatic with 2-8 fpm Conveyor Line, Liquid or Powder Capability, Parts Size up to 30" x 60", Bake Temperature up to 450o F.
- (4) De-Vilbiss Spray Booths, Air or Electrostatic Spray Capability
- (1) Powder Booth
- (1) Alodine Plating System (7 Tanks) per Mil C-5541-C (Yellow and Clear Chromate)
- (1) ITW Gema EasySystem Manual powder Unit with EasySelect Gun, EasyTronic Controller and EasyFlow Pump
- (1) Trivalet Plating system (7 tanks) per Mil C-5541-C (Clear Chromate)
- (1) Iron Phosphate Plating System
- (1) Passivating System for Stainless Steel
- (1) AWT Silkscreen Printer
- (2) Despatch Bake Ovens, 7' x 8', 500o F. Maximum Temp
- (1) Viking Bake Oven, 7' x 8' x 7' Tall, 500o F. Maximum Temp
- (1) Despatch Screen Printing Oven, 600o F. Maximum Temp
- (1) Cincinnati Conveyorized Silkscreen Dryer Line, 400o F. Maximum Temp
- (2) Advanced BIO-GEST Waste Digestion and Recycling Systems

Our Paint and Plating Shops utilize approximately 15,000 square feet of our facilities. We specialize in industrial finishes utilizing waterborne paints, powder coats and catalyzed polyurethanes.

INSPECTION SERVICES

Calibration of our manufacturing equipment is monitored by the Quality Control Department with this equipment and the aid of a computerized Statistical Process Control system. METALfx has established a calibration system to comply with standards and practices detailed in ISO 9002. The calibration system makes use of gages and instruments that are calibrated at regular time intervals and are traceable to the National Institute of Standards and Technology (NIST).

	CAPACITY
(1) Fabrivation Computerized Optical Inspection Systems with Reverse Engineering Option Metalsoft Model 4600	48" X 72"
(1) 3-Axis Coordinate Measuring Machine Mitutoyo with Quadrachek 4.0 / Q.C. 5000	24" x 28" x 16"
(8) Statistical Quality Control Computers, Datamyte models 3052 & 3055 QMS Model Genesis QC300	
(1) Optical Comparators Microview with Micro-processor and 14" screen	Table movement 8" x 4" x 4". Displays Accuracy .0001"
(1) Optical Comparator Optical Gauging Products, Inc. Model SL-809	
(1) Rockwell Hardness Tester	
(1) Torque Tester Mountz Model M-100	Range 100 lbf, Accuracy "1%
(3) Granite Surface Plates	18" x 24" to 48" x 96"
(1) Zorelco Microtest Dry Film Thickness Gauge	
(1) Counter Sink Gauge	
(2) Versa Gauges	60" and 80"

All support equipment such a micrometers (from Supermic .00005" up to 9"), calipers (from 300 mm to 48"), height gauges (digital, 18" & 24"), gauge blocks and pins. Upon written request, a copy of our Quality Control Manual will be issued to our customers.

ANCILLARY SUPPORT EQUIPMENT

	CAPACITY
(13) Forklifts (3)	3000 Lbs (electric)
(3)	5500 Lbs
(1)	7000 Lbs
(1)	8200 Lbs
(1)	10000 Lbs
(7) Air Compressors	(4) 50/30/25/10 HP
(4) Delivery Trucks	1
15 to 48 ft.. diesels with multiple daily deliveries to the San Francisco Bay Area. Other areas scheduled as needed.	

WOOD PRODUCTS DIVISION

SAWS

CAPACITY

- (1) Homag Espana CH 10/32 Electronic Horizontal Panel Saw with Homatic Program Controller
- (1) CTD Model 480 Automatic High Speed Cut Off Saw with Automatic Feed 16" x 20"
- (1) Martin T71 Sliding Table Panel Saw with Scoring Blade and Compound Angle Attachment
- (1) Delta Power Feed Table Saw
- (1) Power Max Pop Up Chip Saw
- (1) Rockwell Band Saws 16"
- (1) Jet Band Saw 20"

MACHINING

CAPACITY

- (1) CMS CNC Machining Center Type NC PF102-2TCU-2RR with Point to Point Drilling Attachment
- (1) Weeke Optimat BP140k CNC Machining Center
- (1) Biesse Rover 321R CNC Point to Point Machining Center
- (1) Biesse Rover 336R CNC Point to Point Machining Center
- (1) Accu-Systems Model H-23 Multi-Spindle Drill and Dowel Insertion Machine
- (1) Accu-Systems DS-1 Hand Held Dowel Insertion Machine
- (3) Drill Presses
- (1) Rockwell Shaper
- (1) Power Matic 160 Planer

SANDING

CAPACITY

- (2) Jet EHV-80 Belt Sanders

FINISHING

CAPACITY

- (1) Holzher 1404 Automatic Edge Bander

MISCELLANEOUS EQUIPMENT

CAPACITY

Pneumatic Nail and Staple Guns

Pneumatic Drill and Screw Guns

- (2) Shaper Tables with Router

- (2) Ritter Case Clamps

- (1) Instapak 900 Packaging foam dispensor

600' of ConveyORIZED Assembly Line (Totaling 5 Assembly Lines)