

# TOOL & DIE SYSTEMS

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## *EQUIPMENT LIST 2009*

### **\*FABRICATING EQUIPMENT\***

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#### **TURRETS**

- (1) **US AMADA VIPROS 368 KING AUTOMATED PUNCHING CELL:** 58 station turret with 4 auto index stations, 6 material storage/retrieval and high speed loading devices. Handles up to 60" wide sheet.
- (1) **US AMADA EM 3510 TURRET PUNCH** with 58 station turret with 4 Auto index stations. Equipped with brush table.
- (2) **US AMADA VIPROS 358 TURRET PUNCH** - 58 stations with 4 auto index



(1) **AMADA CORNER NOTCHER** up to 12" cut

#### **CNC PRESS BRAKES/PANEL BENDERS**

- (1) **SALVAGNINI "PERFORMER" COMPACT PANEL BENDER:** automated panel bender, max blank length/width 78" x 59" x .080" mild steel
- (1) **US AMADA FBD 825 FINE BENDER BRAKE PRESS** 8' x 80 ton
- (1) **US AMADA RG-50 PRESS BRAKE** 6' x 50 ton W/2 axis CNC back-gauging
- (1) **CHICAGO PRESS BRAKE** 10' x 50 ton with CNC back-gauging
- (1) **WYSONG PRESS BRAKE** 6' x 40 ton W/2 axis back-gauging
- (1) **DI-ARCO PRESS BRAKE** 4' x 17 ton
- (1) **US AMADA FBD** 6' x 50 ton W/2 axis back gauging
- (1) **US AMADA RG-80 PRESS BRAKE** 8' x 80 ton W/2 axis CNC back-gauging
- (1) **US AMADA FBD** 8' x 100 ton W/2 axis back gauging
- (1) **US AMADA FBD** 10' x 125 ton W/2 axis back gauging
- (1) **TRUMPF PRESS BRAKE** 6' x 60 ton W/6 axis back-gauging



#### **WELDING EQUIPMENT**

- (1) **TAYLOR WINDFIELD SPOT WELDER** 75kva with solid state controls
- (2) **BANNER SPOT WELDER** 75kva with solid state controls.
- (2) **MILLER MIG WELDER** 200 amps
- (1) **LINCOLN MIG WELDER** 200 amps
- (1) **LINCOLN TIG WELDER** 250 amps
- (1) **HBS CD 2301** Stud welder
- (1) **BETTERMANN CD 308** Stud welder

#### **PUNCH PRESSES**

- (1) **MINSTER PROGRESSIVE PUCH PRESS** P2-150-48-42 150 ton 3" strokes up to 299 strokes per minute. Equipped with automated coil feed line.
- (1) **MINSTER PROGRESSIVE PUNCH PRESS** P-75-24-32 95 ton 4" strokes up to 95 strokes per minute. Equipped with automated coil feed line.

- (1) **CLEARING PROGRESSIVE PUNCH PRESS** 45 ton 3" stroke 60 strokes per minute. Equipped with automated coil feed line.
- (1) **CLEARING 45 TON** single hit 4" stroke
- (1) **NIAGARA 50 TON** single hit 4" stroke
- (1) **WARCO 65 TON** single hit 4" stroke
- (1) **CONSOLIDATED 20 TON** single hit 4" stroke

## \*LASERS\*

### FLAT SHEET LASERCUTTING SYSTEMS

- (2) **TRUMPF L 2530** – 3 axis LASERCUTTING system with dual 48" x 96" working envelopes with a 3000 watt resonator capable of cutting up to and including 3/4" mild steel, 1/4" aluminum, and 3/8" stainless steel
- (1) **TRUMPF L 2530 PLUS** - 3 axis LASERCUTTING system with dual 48" x 96" working envelopes with a 4000 watt resonator capable of cutting up to and including 3/4" mild steel, 1/4" aluminum, and 3/8" stainless steel
- (1) **TRUMPF L 3030** – 3 axis LASERCUTTING system with dual 60" x 120" working envelopes, fed by a LIFTMASTER LOADING SYSTEM, with a 4000 watt resonator capable of cutting up to and including 3/4" mild steel, 1/4" aluminum, and 3/8" stainless steel
- (1) **TRUMPF 3050** – 3 axis LASERCUTTING system with dual 60" x 120" working envelopes and a **5000 watt resonator** capable of cutting up to and including 1" mild steel, 1/2" aluminum, and 3/4" stainless steel
- (1) **LASER LAB PROFILE PLUS** - 3 axis LASER CUTTING system with dual 60" x 120" working envelopes, 2200 watt PRC laser resonator
- (1) **LASER LAB PROFILE** - 3 axis LASER CUTTING system with 60" x 120" working envelope, 1500 watt PRC laser resonator.
- (1) **TRUMPF VECTOR MARK** Laser Etcher.

### LASER CUTTING SYSTEMS FOR TUBES AND PROFILES

- (2) **TRUMPF TUBEMATIC** production modular tube cutting systems. Max diameter: 6in. Min diameter: 5/8" Max wall thickness: 1/4" Max length of tube: 21.3 ft. Automated system with tube loading attachment for production quantities allows an efficient non-operator loading feature.
- (1) **LASERCUT** 4 axis LASER CUTTING systems with 12" x 24" working envelope 800 watt coherent laser resonator W/ CNC rotary for tube cutting

### 5-AXIS LASERCUTTING SYSTEMS

- (1) **LASERDYNE 790-A PRC 2200 WATT** 5 axis LASERCUTTING system with X axis=39", Y & Z axis=27"
- (1) **LASERDYNE 780- A PRC 2200 WATT** 5 axis LASERCUTTING systems with X axis=39", Y & Z axis=27"
- (2) **LASER LAB PENTACON - A PRC 2000/1700 WATT** 5 axis LASERCUTTING systems with X axis =120", Y axis 60", Z axis =24".



## SAWS

- (1) **POWERMATIC** vertical band saw 20"
- (1) 16" roll-in vertical saw

## SECONDARY OPERATIONS

- (3) **HAEGER INSERT PRESSES** with bowl feeder
- (1) **TIMESAVER DEBURRING MACHINE** 52" wide belt (wet or dry systems)
- (1) **TIMESAVER DEBURRING MACHINE** 10" wide belt (dry systems)
- (2) **TIMESAVER DEBURRING MACHINE** 36" wide belt (wet or dry systems)



## MILLS

- (5) **BRIDGEPORT SERIES I** milling machine W/2 digital readouts
- (1) **CINCINNATI #3** vertical milling machine
- (1) **KEARBAY TRECKER 2 II** vertical milling machine

## GRINDERS

- (2) **HARIG** 6" x 18" surface grinders
- (1) **HARIG** 6" x 12" surface grinders
- (1) **ABRASIVE** 8" x 24" surface grinders

## DRILL PRESSES

- (1) **AMERICAN RADIAL DRILL PRESS** - 4" x 9"
- (1) **POWERMATIC** 10" variable speed drill press
- (1) **CLEARMAN LAYOUT** drill press W/ digital readout

## LATHE

- (1) **SOUTHBEND** lathe 16"
- (1) **TURNMASTER** lathe 15" x 50"

## INSPECTION

- (2) **CORDAX 803 COORDINATE MEASURING MACHINE** w/17" x 24" x 36" Working envelope
- (1) **GENESIS 300** spec inspection computer
- (1) **SHERR-TUMICO** optical comparator 14"

## **FABRICATING EQUIPMENT**

- (1) **WYSONG SHEAR** 6" x 10 gauge
- (1) **BANTAM press brake** 2' x 12 ton

## **MILLS**

- (3) **HAAS SUPER MINI MILL Vertical Machining Center**. Travel: X: 16" Y: 12" Z: 10"
- (1) **HAAS VOPA VF2 Vertical Machining Center**. Travel: X: 30" Y: 16" Z: 20"
- (1) **ANILAM SERIES** 1100 CNC milling machine
- (1) **ANILAM SERIES** A-300 CNC milling machine

## **DEBURRING**

- (1) **SWECO** 5' dia. vibratory de-burring machine
- (1) **4 cu. ft. TUMBLER**
- (1) **DAYTON GLASS BEAD** sandblaster

# **\*MATERIAL HANDLING EQUIPMENT\***

## **OVERHEAD CRANES**

- (2) 2 TON TROLLEY CRANES
- (3) 1 TON TROLLEY CRANES

## **LIFT TRUCKS**

- (1) **TOYOTA 5FBCU30** 6000# electric
- (1) **TOYOTA 42-6FGG25** 5000# propane
- (1) **TOYOTA 52-GFGU30** 6000# propane
- (2) **TOYOTA 5FBE20** 4000# electric
- (1) **TOYOTA 5FBE18** 3000# electric
- (2) **CLARK CGC30** 6000# propane
- (1) **CATERPILLAR V50B** 5000# propane
- (1) **YALE GS/LPS** 4000# propane

## **RECEIVING**

- (8) Mechanical drive down loading docks
- (2) Oversized drive in bay doors
- 65000 Sq Ft building

## **CAD / CAM CAPABILITIES**

- AUTO CAD
- TEX SOFT 3D - 2D
- CIM CAD
- AP100
- SOLID EDGE & SOLID WORKS
- **DXF, DWG, AND IGES FILES ARE PERFERABLE FORMATS FOR ELECTRONIC TRANSFERS**



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