



FABRICATION EQUIPMENT & CAPABILITIES GUIDE

*MILITARY &
COMMERCIAL*

*MATERIAL
HANDLING*

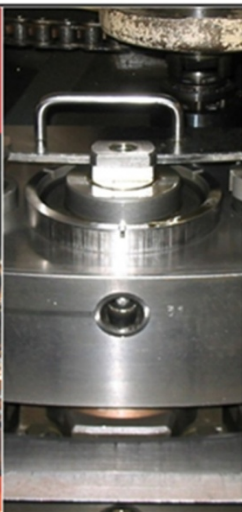
*ENCLOSURES &
WELDMENTS*

*LIGHT FIXTURE
ENCLOSURES*

*SAFETY
STORAGE*



HIGH SPEED LASER



TURRET PUNCHING



FORMING / ROLLING



CERTIFIED WELDING



FINISHING / ASSEMBLY



INSPECTION

LASER CUTTING, SHEARING & BLANKING

Mitsubishi EX 3015/35CFR Laser ; 3500 watt laser with 5' x 10' cutting table and shuttle table. High speed, heavy-duty motion system reduces processing time as much as 50%. Diamond Path advanced beam delivery system. Superior edge quality and processing consistency over entire work area. PC-based, 64-bit NC control has touch-screen user interface and full network capability



Amada FOL 3015NT Laser Cutting System with Automation; 4500 watt laser with 5' x 10' cutting table and load/unload automation. Three axis linear drive system generates max. positioning speeds of 13,386 inches per minute and acceleration of 5G. AMNC-F PC-based controller; Full Ethernet network-capable.

Mitsubishi Model ML3718LVP^{plus}, 4000 watt laser with 6' x 12' cutting table; Quick-change lens cartridge system; Advanced 64-bit MS Windows NC touch-screen control;



Cincinnati Mechanical Shear. Model 14101A; 3/16" mild steel x 10' capacity

CNC PUNCHING

Amada Vipros 255 Turret Punch. 20 ton punching capacity, 31 tool stations with 3 auto index stations. 50" x 50" axis travel, 100" x 50" maximum sheet size. Fanuc 18-P CNC control. Maximum material thickness: .25" Accuracy: .002"



Amada Vipros 367 Turret Punch. 33 ton punching capacity, 45 tool stations with 4 auto index stations. 60" x 72" axis travel, 144" x 60" maximum sheet size. Fanuc 04PC & PHNC CNC Control. Max material thickness: .25" Punch accuracy: .002"

Wilson Tapping Tool: 200 Holes per minutes. Several taps in stock. In-turret tapping dramatically reduces tapped hole cost.



Wiedemann C3000 CNC hydraulic turret punch press. 33 Ton, 40 tool stations with 2 auto index stations. 220 hits per minute standard or 475 hpm while nibbling. Max sheet size with repositioning: 100" x 52"; Maximum sheet thickness: .25".

Turret forming capabilities include louvers, extrusions, embosses, card guides, lance & form, etc. Large selection of standard tools in stock.

PRECISION FORMING / ROLLING

FORMING

ACCUPRESS, Model 732014, 14' 320 ton CNC hydraulic press brake. New 2010, 14 foot, 320 tons. 20" expanded total open height. Extended 39" back gauge travel. Adjustable bending speed control; 148" clearance between housings; Accupress crownable die holder, swing stock support arms w/disappearing stops.

Advantage Package includes: Repeat accuracy of .0004; Dual Ram feedback system for precision stage bending; visual ran tilt indicators provide feedback to ensure greater accuracy.



New 2010

PRECISION FORMING / ROLLING, Cont.

ACCUPRESS, Model 713084, 8' 130 ton CNC hydraulic press brake. New 2013, 8 foot, 130 tons. Advantage Package includes: Repeat accuracy of .0004; Dual Ram feedback system for precision stage bending; visual ram tilt indicators provide feedback to ensure greater accuracy.

Toyokoki HYB1253 hydraulic/AC servo press brake. New 2005. 10 foot, 140 tons. HYB-TNC 9 axis CNC with auto crowning and material thickness detection. European quick change tool holders. S/N 1436.

(3) Toyokoki APB-5620 Electric press brakes. New 2006/2000. Electric drive system. 6.5' foot, 60 tons. Six-axis control with sheet thickness detection & correction and automatic ram tilt.

Adira QHA-10030 hydraulic press brake. 10 foot, 110 tons. Automec CNC 2000, 2 axis gauge. European quick change tool holders.

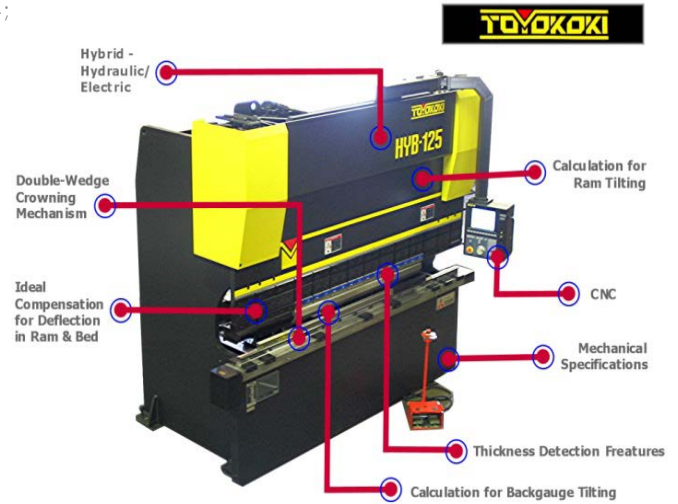


PLATE ROLLING

Baileigh Industrial PR510H Hydraulic Plate Roller. New 2007 5' long, 4.75" OD rollers, 10Ga material thickness.

VERTICAL MACHINING



HAAS VF-7 Vertical Machining Center. New 2009. 20 hp, 84" x 32" x 30" capacity. 2-speed 40-taper gearbox; Hi-Intensity lighting; Wireless Intuitive Probing System; Hard Disk Drive with Ethernet Interface. Rigid tapping.

7500 rpm, 40 taper, 20 hp vector drive; Direct speed, drive belt; Side-mount tool changer.

INSPECTION EQUIPMENT

Amada Fabrivation: Model FabriVISION 3Di Laser; Scanning accuracy: .002"; Max. part thickness: 8"; Max scan zone: 48" x 48" **Software:** Fabrivation Laser V6.07

ROMER Infinite 2.0 Portable CMM Inspection Arm: Model 5124; S/N 254; 8' measuring length; point repeatability: .0008" (.020 mm), Length accuracy: .0011" (.029 mm) certified traceable to NIST

Inspection Software: PC-DMIS Portable on a DELL Precision M4400 laptop computer.



Other inspection equipment:

- Fowler Digital height gauge: 20" max. height, scribe only.
- Mitutoyo Series 192 Digital height gauge: 24" max height.
- Digital Protractors: Wilson Tools: Accuracy to .010 degrees; SPI Model 30-94-1
- Digital calipers: SPI - 12", 24", 40"; various digital, analog calipers stationed at each machine.
- Thread Gauges: S&W thread checker; Greenfield Class 2B thread gauge in 6-32, 8-32, 10-32.
- Gauge blocks: Grade 3, traceable to NIST.



WELDING / WELD PREPARATION-BEVELING

MIG Welding

(3) Millermatic 350/350P Welders. 300 Amp welder; MIG (GMAW), Pulsed MIG (GMAW-P) and Flux Cored (FCAW) processing capabilities with Line Voltage Compensation. (1) XR push-pull gun for superior aluminum performance.

Lincoln Power Mig 255 mig welder. (Qty 1)

Lincoln 255 mig welders (Qty 2).

(3) Lincoln Idealarc SP-200

(2) Esab MigMaster 280 Package Mig Welder

TIG Welding

Miller Dialarc Tig welder (Qty 1)

L-Tec Heliarc 250 HF Plus Tig welder (Qty 1)

Spot Welding

ARO Model S-2151 Water-cooled Portable Weld Gun with ARO 01 Weld Timer Control: 15 KVA Hanging Spot Welder with 12-1/4" upper and lower arms for max. throat depth of 13".

ARO Model SX4321 Water-cooled Hanging Spot Welder with McCreery Weldmaster controller: 15 KVA Hanging Spot Welder with 25" upper and lower arms for max. throat depth of 25-1/2".

Banner model 1SPQ press-type spot welder: 30 KVA transformer wound for 220 vac; Throat: 12"

Alphil 40 KVA floor spot welder.

Lors 30 KVA floor spot welder. Model 130AR.

Miller 440 Volt 45 Amp Spotwelder w/cooler. Model SSW-2040A77; S/N JH211210.

Ancillary Welding Equipment

Torit DFT2-4 Dust Collector w/7.5 HP power pack. Fume extractor for weld booths

Lincoln Electric Mobiflex 200-M Fume Extractor.

3000 lb Capacity Scissor lift table.



Plate Beveling / Weld Preparation / Metal Finishing

Trumpf TKF-1500 plate beveller: Bevel angle between 20° and 55° can be continuously adjusted; Easily changeable cutting tools with two cutting edges that can be re-ground several times; Suitable for mobile or stationary preparation of weld seam

Trumpf Tru-Tool TKA-500 Beveler/Deburrer. 30°, 45° and 60° as well radius edges. Also suitable for plasma cut sheets

CS Unitec – PTX Eco Smart – Electric Linear Grinding System. Portable drum sander/finisher with 4"-6" wide flap wheels. Excellent for creating a grained finish on stainless steel. *(See page 4 for more metal finishing tools and machinery.)*

Hypertherm Powermax 1250 G3 Series plasma torch: Plasma torch mounted on 8' BUG-O System modular drive rail.

PRODUCTION / DESIGN / PROGRAMMING SOFTWARE

CAD Software: **Kubotek KeyCreator 3D Modeling;** Cadkey computer aided design software (2 stations).

Solid Works 3D Modeling (3) stations; (1) with Amada Sheetworks

Laser Programming: **Amada Dr. Abe Blank on AP100 SDDJ database server**

Accufab by Ncell

Turret Programming: **Pro Fab by Applied Production**

AP100-US

ERP Software: **M1 by Bowen & Groves** - shop floor mgmt, purchasing, inventory, quoting, quality, accounting.



MATERIAL HANDLING

- Toyota Model 8FG025. 4500 lb capacity. S/N 20384
- Mitsubishi Model FGC25. 5000 lb cushion tire forklift. S/N AF82A-52176.
- Mitsubishi Model FG25N. 5000 lb pneumatic tire forklift. S/N AF17001222.
- Mitsubishi Model FGC15K. 3000 lb cushion tire forklift.

DELIVERY & TRANSPORTATION

- (1) 2003 International 4300 DT466 delivery truck with 24' box body
- (1) 1998 International 4700 delivery trucks with 24' box body.
- (1) 1995 International 4700 delivery truck with 24' flat bed.
- (1) 2003 Chevrolet Avalanche pickup truck

OTHER PRODUCTION EQUIPMENT & CAPABILITIES

PAINTING / PRIMING

- Uni-Hydro 55 Ton Hydraulic Ironworker. Model 55-24. S/N 3P55140.
- Roto-Finish Vibratory Bowl. Job #3957. S/N ST-1S-96-A15.
- Jet Geared Head Drill & Tapping Press. Model GHD-20PFT. S/N 9040256.
- G & P Polishing Lathe Model VS-700. 7.5 hp with backstand idlers. S/N G-6862.
- Miller Falls Products sheetmetal deburring machine. D-Bur-R Model 131. S/N 3636.
- Chicago Rivet Machine. Auto feed and setting of semi-tubular rivets. No. 45-1228.
- 36" Peck, Stow & Wilcox Hand Roller. Model 3811. S/N 51.
- Haberle Cold Saw. Model S225 Series B. S/N 18682.
- Abrasive No. 1 1/2 Surface Grinder with magnetic chuck.
- Wilton Tapping Machine. Flexible arm. Model #UET800B.
- Tapmatic Tapping Head. 1/2" Capacity.

STAINLESS GRAINING & POLISHING

ASSEMBLY



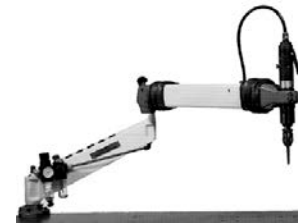
Uni-Hydro Ironworker



Roto-Finish Vibratory Bowl

WET/AIR DRY PAINTING

- Standard Tool CF1000 Cross Flow Paint Booth, 14W X 9H X 26.6L
- Graco Falcon Model 232810 airless paint pump.
- Graco Alpha Paint Gun Model 241508 (Qty 2)
- Neoterik MC Microprocessor Fresh Air Pump. (Fresh air respirator pump for painter).



Wilton Tapping Arm: #UET8008

- 12' Extra heavy duty cantilever racks. For steel storage: (4) single-sided, (1) double-sided.
- Pallet racking: Many sections throughout plant for material storage.
- Various hand tools, grinders, buffers, calipers, etc. for metal finishing, fabricating, inspection, etc.

VALUE + RELIABILITY = TRUST

VALUE: As you know, if we price ourselves out of the market, we'll never get to work for you no matter how good our equipment and people are. That's why we work hard to keep our prices down and, if you want, look for ways you can save more money as well. Value means suggesting ways to take cost out of a part. It means keeping higher quantities on hand for quick shipment to you. It means ensuring quality and consistency by investing in the latest laser and precision press brake technologies. And, it means providing turnkey services such as finishing, packaging and shipping. These are all ways that CMP provides value to its customers.

RELIABILITY: Reliability at CMP can be summed up in three words: Service-Service-Service! It means bending over backwards to understand your needs, listening to your concerns and problems, asking questions about how parts are used, reading the fine print on your purchase orders so shipments are sent to the right location and the right person knows about it. And, in the event that something is damaged in shipping or we did make a mistake, reliability means putting a priority on solving these problems as quickly as possible. In a nutshell, reliability means understanding your expectations and exceeding them.

TRUST: The end result is *trust!* And that means peace of mind for you and repeat business for CMP. It's not always that simple. That's why we say the equation is made up of three actions! Each step in the process takes effort. We make no assumptions at CMP. We take care of little details and work extra hard to earn your trust; and we'll work harder for you, in order to keep it.

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