

## Tool Room Equipment List

### CNC

#### Wire EDM

- Agie VP4, 52" x 39" x 20" Ht
- Agie VP3, 41" x 25" x 16" Ht
- Charmilles Robofil 290P, 15.75" x 9.8" x 7.87"

#### VMC

- Haas VF6, 28" x 64" Table
- (2) Haas VF3, 18" x 48" Table
- Feeler, 23" x 51" Table
- Double Column Bridge Mill Feeler-2214, 55" x 85" Table

#### Lathe

- Fryer ET-18, 8" Chuck, 8 Station Turret

### TOOLING SOFTWARE

- VISI Progress
- AutoForm Forming Situation

### MANUAL

#### Drill

- Ikeda Radial, 5" x 13"
- Fosdick Radial, 4" x 12"
- Clausing Pedestal, 32" x 21" Table
- Clausing Pedestal, 45" x 29" Table

#### Heat Treat

- Lucifer Dual Chamber
  - High Temp 12" x 21" x 9"
  - Low Temp 12" x 19" x 9"

### Mill

- (5) Bridgeport, 11" x 48"
- Kearney & Trecker 3CH

### Saw

- DoAll Band Saw, 21" x 31"
- Wells W-9-1 Cutoff Saw

### Lathe

- Moriseki, 54" Bed 20" Swing

### EDM

- Charmilles HD20 EDM Hole Drill

### Grind

- Mattison, 20" x 48"
- Okamoto 1632, 18" x 32"
- (2) Okamoto, 12" x 24"
- (3) Harig, 6" x 18"
- (3) Mitsui, 6" x 18"
- Mitsui MSG, 8" x 18"



# Manufacturing Equipment List

## STAMPING

STAMP / AUTOMATIC FEED							
	TON	BED	MAX SPM	STROKE	TYPE	MAX THICKNESS	MAX WIDTH
MINSTER E2-800	800	72" x 168"	40	16"	SSDC	.312"	50"
MINSTER E2-400	400	54" x 120"	60	14"	SSDC	.375"	30"
MINSTER FX2-300	330	48" x 96"	51	11.81"	SSDC	.250"	30"
MINSTER E2-300	300	48" x 96"	60	10"	SSDC	.330"	26"
MINSTER E2-200	200	42" x 60"	60	6"	SSDC	.209"	12"
MINSTER PH2-160	160	33" x 63"	150	4"	SSDC	.250"	12"
MINSTER P2-100	100	31" x 39"	150	3"	SSDC	.250"	14"
MINSTER P2-100	100	31" x 39"	150	4"	SSDC	.187"	14"
MINSTER P2-45	45	38" x 25"	400	2.5"	SSDC	.125"	11"

  

STAMP / AUTOMATIC FEED				
	TON	BED	STROKE	TYPE
AIDA NC2-250	275	36" x 106"	11"	Gap
AIDA NC2-16	176	23" x 81"	5"	Gap
STAMPTEC OCP-110	110	45" x 27"	7"	Gap
GREENARD-40	40	15" x 16"	8"	Gap





## VALUE ADDED

### Weld

- **Banner Spotwelder,**  
75 KVA 18" Throat
- **Banner Spotwelder,**  
100 KVA 18" Throat
- **Federal Spotwelder,**  
100 KVA 18" Throat
- **TJ Snow Spotwelder PPSA-12-25,** 100 KVA 11" Throat
- **TJ Snow SlimLine Dual Gun Spotwelder,** 120 KVA 18" Throat
- **CNC Panasonic Robotic Welder,**  
(2) 34" x 15" x 20" Weld Stations
- **Genesis Robotic Welder,**  
(2) 30" x 40" Weld Stations

### Hardware Insert

- **Auto-Sert AS-15 Insertion Press,** 15 Ton 20" Throat
- **Auto-Sert AS-7 Insertion Press,** 7 Ton 20" Throat
- **Pemserter 3000,**  
8 Ton 24" Throat

### Machine

- **Brother CNC Tapping Center**
  - Pallet Changer (2)  
19.7" x 11.8" Tables
  - 14 Station Tool Holder
  - Trunnion Rotating Tables
- **Robodrill, a-DiA Series**
  - 15.7" x 19.7" x 13" Travel
  - 21 Station Tool Holder
- **Procurier Tapping Machine,**  
21" x 30" Table

### Part Wash

- **Ultrasonic Parts Washer,**  
3 Station System
- **Stoelting Conveyor Belt Wash System**
  - Wash-Rinse-Dry
  - Belt System

## QUALITY

### Measure

- **Zeiss Contura**
  - Calypso Software
  - Measuring Range 27" x 39" x 23"
- **Faro Arm**
  - PolyWorks Software
  - Laser Line Probe HD

### Comparator

- **Starrett Optical Comparator HB400,** 16" Screen
- **Starrett Optical Comparator HD400,** 16" Screen

### Misc

- **Clark Hardness Tester**
- **Mituoyo Microscope**
- **Mahr Digimar CX1 Height Measuring Station**
- **Mituoyo Gage Blocks**
- **Mituoyo Pin Gauges**

## MANAGEMENT

### ERP System

- **Plex Online**
  - SaaS Software
  - Integrated Accounting, Inventory, Shop Floor and Quality
  - Shop Floor Data Collection

### Quality System

- **International Organization for Standardization (ISO)**
  - Registered by Smithers Quality Assessment
  - ISO 9001:2015

# Fabrication Equipment List

## LASER CUTTING

### Salvagnini L1Xe

- Positioning Tolerance,  $\pm 0.004$ "
- Worktable, 120" x 60"
- Maximum Power, 3,000 Watts
- Cutting Capacity (Thicknesses)
  - Steel, .700"
  - Stainless Steel, .312"
  - Aluminium, .187"
  - Brass, .187"
  - Copper, .187"

### Amada Quattro C02

- Maximum Power, 1,000 Watts
- Cutting Area, 48" x 48"

### Fladder Gyro 300

- Brush Deburring
- Working Width, 51"
- 6 Cone Spindles

## BEND

### Durma CNC PRESS Brake AD-S Series Model 30135

- Tons, 150 Tons
- Bending Length, 120"
- Stroke, 10.4/14"
- Throat Depth, 16.1"



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Toll-Free: 1-800-779-3566  
Phone: 262-703-0455

W194N11811 McCormick Drive  
Germantown, WI 53022

