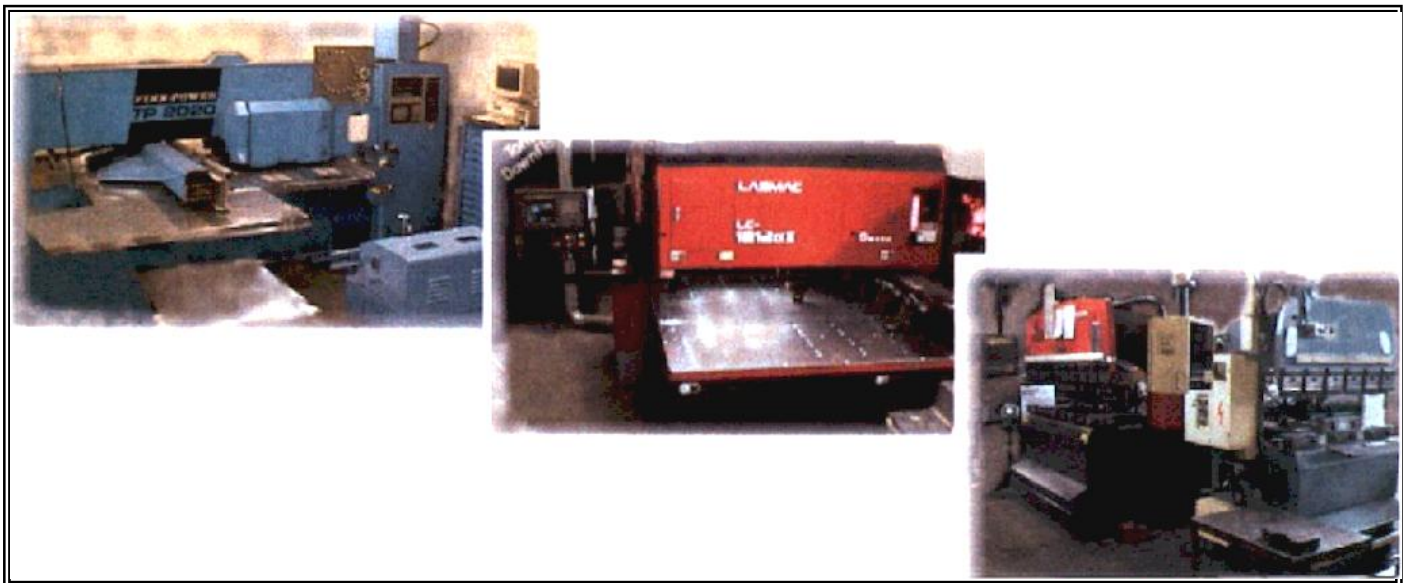


# Howard Products, Inc.

## *Precision Sheet Metal Fabrication*

### Facility List



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# Howard Products, Inc.

## Introduction

Howard Products, Inc. began fabrication of sheet metal products in 1948. Our early products were parts for baby carriages, electrical cabinets and chassis. Since then we have grown and broadened our manufacturing capabilities through building expansions and acquisitions of various types of machinery. With each new equipment purchase we strive to increase our quality, precision and overall capabilities.

We pride ourselves for the diversity of jobs, which we have produced over the years. These include prototypes and/or the production of machine guards, weldments, tractor cabs, support brackets for fire protection, coal stoves, electrical enclosures (from smaller than one foot cubes to two by four by six feet high), panels and chassis for the food and electronics industry and even decorative fireplace glass door frames using brass plated steel with a polished and lacquered finish. These are all made primarily, but not exclusively using mild steel, stainless steel and aluminum. Our quality workmanship has gained us a respected position in the industry.

We realize, quite acutely, that we must work closely together with each of our customers in a spirit of cooperation, loyalty and flexibility. We believe this is the **best way** to gain not only customer relations but also friendship relationships. It is in knowing each other that we will both succeed and endure no matter how quickly the future approaches.

# Facility List

## CAD / CAM

- 1- PC with Solid Edge, 3D solid modeling system w/ excellent sheet metal and three dimensional mechanical design capabilities.
- 2- PC's with FastCAD32 drawing system for quick & accurate parts layout.
- 2- Metalsoft AP-100US CNC programming software for fast reliable NC programming.

## Shearing

- 1- Cincinnati power shear, 10' long by 1/4" mild steel capacity.

## Punching & Contouring

- 1- Finn-Power TP2020 IF2, 33-ton, 47 station high speed turret punch press with two 1 1/4", one 2" and one 3 1/2" Auto Index Stations, 40 x 80 table.
- 1- Amada America Pulsar 1212, 1500 Watt CO<sub>2</sub> Laser, 50 x 50 table
- 1- W.A. Whitney Duplicator 635, 30-ton capacity.
- 3- Punch Presses, 5 to 25 ton capacity.

## Bending

- 1- Amada RG-100 Press Brake 10' long, 110 ton cap., with an Amada NC 9EX Three-Axis CNC backgage.
- 1- Amada RG-50 Press Brake 6.5' long, 55 ton cap., with an Amada NC 9EX Three-Axis CNC backgage.
- 1- Amada RG-25 Press Brake 48" long, 27.5 ton cap., with an Amada NC 9EX Three-Axis CNC backgage.
- 1- Promecam Press Brake 4' long, 30-ton capacity.

## **Quality Control**

- Portable Inspection Cart with Granite Surface Plate and all applicable quality control instruments including digital & dial calipers, micrometers and dial indicators plus radius, tap and roughness gages.

## **Assembling & Welding**

- 3- Presswelders and Spotwelders, 27.5, 75 and 100 KVA.
- 4- Heliarc welders, 345 to 400 amps.
- 6- MIG semi-automatic welders, 200 to 400 amps
- 1 – Robotic Welding Cell, Dahren, Aluminum MIG

## **Miscellaneous**

- 1- Haegar hardware inserting press with automatic feed capabilities.
- 4- Drill Presses.
- 2- Tapping Heads and a Hand Tapper with a 16" x 18" table.
- 1- W.F. Wells Bandsaw Model W-9 Series with automatic feed, capacity 9" x 18" x 24'.
- 1- Bandsaw with 30" throat.
- 2- Power Roll 4' and 6' long, 1/8" to 3/16" steel capacity.
- 1- Bridgeport w/ a TRAK-2-axis man. N/C and Lyman MK4 single-axis power feed.

## **Finishing**

- 1- D-Bur-r-111 Deburring Machine, .024 to .250 capacity.
- 1- Vibratory Tub Finisher, three cubic foot capacity.
- 1- Timesaver, Horizontal surface finisher, 30" wide capacity.
- 2- Vertical Belt Sanders, 4" wide.
  - Various hand grinders, 3", 5", 7" disc and other applicable finishing tools.

## **Material Handling**

- 4- Bridge and Jib cranes, 1 to 2 ton capacity.
- 24+- 24" by 36" material transport carts.
- 3- 48" by 48" 'A' frame transport carts.
- 1- Hydraulic in ground Floor Lift, 5000 lb. capacity for loading and unloading all size trucks.
- 1- Big Joe Counterbalanced Stacker, PDCM-60, 2000 lb. capacity, maximum lift 106".