



# **PREFERRED TOOL & DIE CO., INC.**

**5400 WEST RIVER DRIVE, COMSTOCK PARK, MI 49321 (Grand Rapids)**



**Progressive Dies  
Line Dies  
Transfer Dies  
Servo Transfers  
Automation  
CNC Machining  
Wire EDM  
Engineering  
Design**

## **Mission Statement**

The mission of Preferred Tool & Die is to serve customers in the sheet metal stamping industry and other related industries by providing products and services that best suit their goals.

To meet this goal Preferred will evaluate our customer's needs, evaluate our abilities and research available technology. This will assure that the most competitive methods are employed in the development of the manufacturing process and related tooling.



ISO 9000

Preferred Tool & Die's goal is to produce high quality products and services at competitive prices. To help achieve this goal Preferred is Certified ISO 9001:C2000.

**5400 West River Drive, Comstock Park, Michigan 49321, (Grand Rapids) 616-784-6789**

## Engineering

Engineering enters into all aspects of the manufacturing process, from concept to build to tryout and installation.

At Preferred Tool & Die we employ sound engineering practices to assure the best process and product is provided to our customers.

Our Engineering Department has developed a diverse automation product line that can be incorporated into the tooling process. Automation products include in-die transfers, full three axis servo-transfers, blank destacker feeders, and part feeders.

We have the ability to combine dies with automation for the most complete process possible.

Preferred has been providing innovative stamping solutions since 1966. We would appreciate the opportunity to work with you on your next project.

## Machinery & Equipment

<p><b><u>PRESSES:</u></b></p> <p><b>Clearing 750 ton</b>            156" x 72" bed                      50" Windows            Max. Shut Height 62.5"            Min. Shut Height 23.5"            Strokes/min. 8                      Stroke 24"            Roll out bolster</p> <p><b>Clearing 400 ton</b>            132" x 80" bed                      Air Cushion            Max. Shut Height 36"            Min. Shut Height 19"            Strokes/min. 13                      Stroke 30"</p> <p><b>Clearing 250 ton</b>            84" x 60" bed                      Air Cushion            Max. Shut Height 30"            Min. Shut Height 24"            Strokes/min. 12                      Stroke 18"</p> <p><b>Verson 250 ton</b>            96" x 50" bed area                      Air Cushion            Max. Shut Height 26"            Min. Shut Height 18"            Strokes/min. 17                      Stroke 14"</p> <p><b>Cleveland 250 ton</b>            84" x 50" bed area                      Air Cushion            Max. Shut Height 21.5"            Min. Shut Height 15.5"            Strokes/min. 16                      Stroke 18"</p>	<p><b><u>DRILL PRESSES:</u></b></p> <p>Carlton Radial                      96" Arm, 19" Column</p> <p>Cincinnati Radial                      64" Arm, 15" Column</p> <p>Hercules Radial                      48" Arm, 12" Column</p> <p>Allen 8 speed</p> <p>Wilton Variable Speed</p> <p>GR Wet Surface                      16" x 47"</p> <p>Mattison Wet Surface                      20" x 72"</p> <p>GR Wet Surface                      8" x 24"</p> <p>Reid Surface                      6" x 18"</p> <p>Okamoto Surface                      6" x 14"</p> <p>Boyer Schultz Profile</p> <p>Medina End</p>
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**CNC MILLING MACHINES:**

**Awea SP3016 CNC Bridge Mill**

35Hp 6,000 RPM Spindle 120" x 63"y 30" z

**Johnford DMC-1500H CNC Bridge Mill**

25Hp 6,000 RPM Spindle 59" x 45" y 30" z

**Makino A71 Horizontal CNC W/Pallet Changer**

22Kw 10,000 RPM Spindle 29" x 29" y 31" z

**MILLING MACHINES:**

**G&L Horizontal** 60" x 60" y 48" z  
5" Spindle

**Cincinnati Vercipower Vertical Bed** 50" x 18" y  
50 HP

**Willis Vertical Knee** 34" x 10" y

**Willis Vertical Bed** 48" x 16" y

**EDM:**

**Charmilles Technologies**

**Robofil 500 Wire EDM Travel** 18" x 24" y 16" z

**Work Space** 27" x 47" y 16" z

**INSPECTION:**

**Starrett/Faro Coordinate**

W/CAD interface 40" x 28" y 18" z

**Faro Articulating Arm CMM – Mobile**

CAD interface 8' spherical diameter measuring area

**LATHE:**

**Enterprise** 15" x 40"

**CAD/CAM:**

**Catia** Solids Design Software  
**Knowledge Engineering** Design Automation Software  
**Worknc** 3d Programming Software  
**AutoCad** Design Software  
**Cadkey** Design Software  
**Surfcam** CNC Programming Software  
**HP 750c Inkjet Plotter**

**MISCELLANEOUS EQUIPMENT:**

**(3) 10 Ton Bridge Cranes**  
**(9) 3 Ton Hoists**  
**48" Brake**  
**48" Shear**  
**Millermatic 251 Wire Welder**  
**Acetylene Gas Welder**  
**Air Products TIG Welder**  
**Spot Welder**  
**Marvel Series 8 C/O Saw** 18" x 20"  
**Doall Contour Bandsaw** 3 Wheel 36  
**Doall Contour Bandsaw** 20" & 16"  
**Airco Planograph Burning Machine**  
**Kalamazoo 8" Belt Sander**  
**Brinell Hardness Tester**  
**Rockwell Hardness Tester**  
**Vega Tensile Tester 4,000 lbs capacity**

Additional information can be found on our automation website at: [Diebotics.com](http://Diebotics.com)

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Clearing 750 Ton 156" x72"



Post Processing Roll Formed Parts and In-Die Transfer