



MIDWEST PATTERNS, INC. EQUIPMENT AND FACILITIES

4901 N. 12th St. • Quincy, IL 62305

70,000 SQUARE FT FACILITY

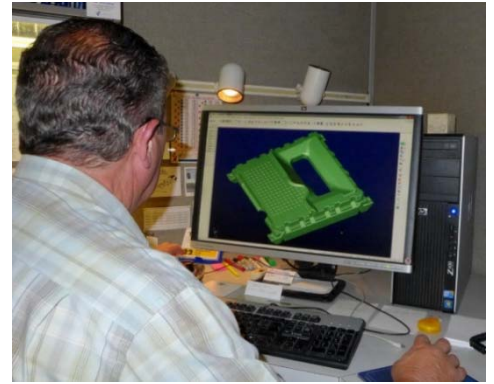


ON-SITE WAREHOUSE – 100' x 100' x 24' TALL



DESIGN

- Unigraphics
- KeyCreator
- Solid Edge
- 42" wide Plotter
- 36" wide Copier
- Digital Cameras & Scanners
- Files We Import: Unigraphics, Solid Edge, KeyCreator, Parasolid, Step, Iges, Dwg, Dxf, Acis Sat, Stl, SolidWorks, Autodesk Inventor, Catia, Pro-e
- Files We Export: Unigraphics, Solid Edge, KeyCreator, Dwg, Dxf, Iges, Acis Sat, Stl, Step, Parasolid, Catia, Pdf



Email: Files may be attached to an email message and sent to mail@midwestpatterns.com
There is no size limit, but Zipped/Compressed files will save upload and download times.

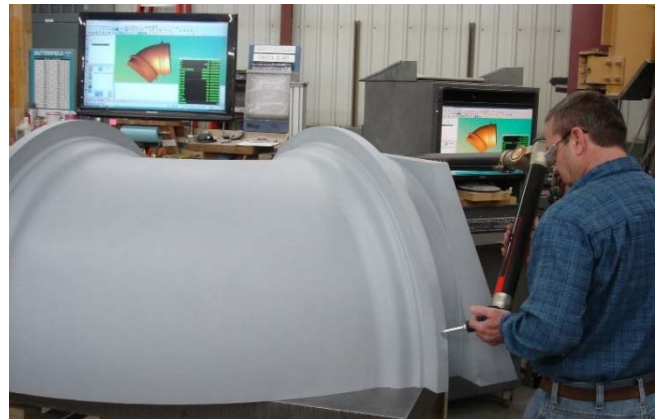
FTP: Easily transfer large files using our ftp sites.

Virtual Meetings: We utilize real time meeting tools such as "Go-To-Meeting" to connect and communicate with our customers wherever they may be.

QUALITY

6 Axis Romer Articulating Portable CMM

- PCDMIS Inspection Software
- Reverse Engineering Capabilities
- Reporting in .pdf, .xls formats
- Solid and Surface model inspections



SHOP FLOOR CONTROL SOFTWARE

Midwest Patterns, Inc. utilizes E2 Shoptech software for organizational assistance in the following capacities:

- Accounting
- Data Collection
- Estimating
- Inventory
- Job Costs
- Labor Reporting
- Orders
- Purchasing
- Quality Control
- Scheduling
- Shipping



C.N.C. MACHINE TOOL SPECIFICATIONS

Komo VR510 Mach III - #1

- X Travel = 140.00"
- Y Travel = 64.00"
- Z Travel = 36.00"
- Max. Vertical Clearance = 36.00"
- Distance Between Uprights = 64.00"
- G.E. Fanuc 180i controller



Komo VR510 Mach III - #2

- X Travel = 140.00"
- Y Travel = 83.00"
- Z Travel = 36.00"
- Max. Vertical Clearance = 36.00"
- Distance Between Uprights = 83.00"
- G.E. Fanuc 180i controller



Komo VR510 Mach II - #3

- X Travel = 140.00"
- Y Travel = 61.00"
- Z Travel = 11.50"
- Max. Vertical Clearance = 12.00"
- Distance Between Uprights = 62.00"
- G.E. Fanuc 180i controller



Komo VR510 Mach III - #4

- X Travel = 140.00"
- Y Travel = 84.00"
- Z Travel = 36.00"
- Max. Vertical Clearance = 36.00"
- Distance Between Uprights = 84.00"
- Fanuc Panel i Controller



Fadal 8030B-II – Vertical Machining Center

- X Travel = 80.00"
- Y Travel = 32.00"
- Z Travel = 30.00"
- Max. Vertical Clearance = 30.00"
- Max Width on Y Axis = 40.00"
- 64MP controller



2nd Fadal 8030B-II – Vertical Machining Center

- X Travel = 80.00"
- Y Travel = 32.00"
- Z Travel = 30.00"
- Max. Vertical Clearance = 30.00"
- Max Width on Y Axis = 40.00"
- 64MP controller



Fadal 80/30 HT – Vertical Machining Center

- X Travel = 80.00"
- Y Travel = 30.00"
- Z Travel = 26.00"
- Max. Vertical Clearance = 35.00"
- Max Width on Y Axis = 45.00"
- 32 MP controller



Fadal 65/35 HT – Vertical Machining Center

- X Travel = 65.00"
- Y Travel = 35.00"
- Z Travel = 31.00"
- Max. Vertical Clearance = 32.00"
- Max Width on Y Axis = 35.00"
- Fanuc 18i controller



Mazak AJV 35-80 – Vertical Machining Center

- X Travel = 78.75"
- Y Travel = 31.49"
- Z Travel = 20.00"
- Max. Vertical Clearance = 27.00"
- Max Width on Y Axis = 34.64"
- M32 controller



Fadal 60/30 HT – Vertical Machining Center

- X Travel = 60.00"
- Y Travel = 30.00"
- Z Travel = 26.00"
- Max. Vertical Clearance = 30.00"
- Max Width on Y Axis = 30.00"
- 32 MP controller



Danly R48 – Vertical Machining Center

- X Travel = 120.00"
- Y Travel = 60.00"
- Z Travel = 24.00"
- Table Size = 48.00" x 120.00"
- Max. Vertical Clearance = 24.00"
- Max Width on Y Axis = 61.00"
- Fanuc 11 M-A controller



Techno Systems Router

- X Travel = 60.00"
- Y Travel = 120.00"
- Z Travel = 20.00"
- Max. Vertical Clearance = 20.00"
- Max Width on X Axis = 60.00"



Okuma Captain CNC Lathe with Sub Spindle

and SMW Bar Feeder

- Max turn diameter = 14.57"
- Swing over saddle = 16.53"
- Swing over bed = 20.86"
- X-axis travel = 10.23
- Z-axis travel = 20.47"
- Max turning length = 19.68"



MACHINE SHOP

Miscellaneous Capabilities & Equipment

- Welding – Steel, Aluminum, MIG, TIG
- Brazing
- Precision Chop Saw
- Surface Tables



George Gorton Double Housing Planer Mill

- Table size = 47.50" x 168.00"
- Vertical Clearance = 48.00"
- Distance between uprights = 58.00"
- Digital Readout



W.M. Sellers and Co. Mill

- Table size = 49.75" x 139.50"
- Vertical Clearance = 55.00"
- Distance between uprights = 61.50"



Pond Machine Double Housing Planer Mill

- Table size = 36.00" x 120.00"
- Vertical Clearance = 36.00"
- Distance between uprights = 49.00"
- Digital Readout



Beckett Double Housing Planer Mill

- Table size = 60.00" x 120.00"
- Vertical Clearance = 24.00"
- Distance between uprights = 97.00"
- Digital Readout



2J Bridgeport Head Planer Mills

- Table size = 42.00" x 108.00"
- Column Size = 18.75"
- Spindle Travel = 12.00"
- Spindle to Table = 18.50"
- DRO Equipped



Ooya Re3-2000 Radial Arm Drill

- Drill Table size = 60.00" x 84.00"
- Column Size = 64.00"
- Spindle Travel = 29.00"
- Spindle to Table = 48.00"



Ooya Re3-1600 Radial Arm Drill

- Drill Table size = 54.00" x 72.00"
- Column Size = 60.00"
- Spindle Travel = 15.00"
- Spindle to Table = 32.50"



Ooya Re-1225 Radial Arm Drill

- Drill Table size = 44.00" x 48.00"
- Column Size = 48.00"
- Spindle Travel = 11.00"
- Spindle to Table = 28.00"



Ooya YMR-915 Radial Arm Drill

- Drill Table size = 44.00" x 48.00"
- Column Size = 36.00"
- Spindle Travel = 9.00"
- Spindle to Table = 18.50"



Monarch Lathe

- Swing Over Cross Slide = 7.25"
- Swing Over Bed = 12.50"
- Between Centers = 20.00"



PATTERN SHOP

Miscellaneous Capabilities & Equipment

- Bridgeports
- Jointer
- Planer
- Sanders
- Lathes
- Saws
- Surface Tables



South Bend Engine Lathe

- Swing = 16.00" Swing
- Between Centers = 48.00"
- Solid Stock Cap. through Headstock = 1.375" Dia.



FOUNDRY

Capacity & Specifications

- Aluminum pouring capacity = 6000 lbs.
- Maximum size = 80.00" x 130.00"
- Crane Capacity = 7.50 Tons
- A356 Grade Aluminum
- Complete sand reclamation system
- Sand Mixer = 300 to 600 lbs./minute



EWN-68-7G 8.5 Wisconsin Oven

- Width = 72.00"
- Length = 96.00"
- Height = 84.00"
- Max Operating Temp = 850°



Teflon Coating Booths

- MPI 8500 Bright Green – Excellent – Glossy Finish
- MPI 7500 Green – Slow Release – Matte Finish
- MPI 4500 Brown – Medium Release – Semi Gloss Finish



Blast Finishes

- Garnet
- Glass Bead
- Black Beauty
- Red Flint
- Sandblast
- Soda
- 230 Shot Peen
- 330 Shot Peen
- 550 Shot Peen
- 780 Shot Peen



Miscellaneous Equipment

- 2016 Ford F-250 Super Duty



- Toyota 4,800 lbs. Tow Motor
- Toyota 8,000 lbs. Tow Motor



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