



***TOOLING
TECHNOLOGY***



DESIGN/ENGINEERING/CNC MACHINING

With in-house design and CNC machining capabilities, we are able to convert your supplied surface data into prototype or production tooling. With over 20 large axis CNC machining centers ranging up to 90" x 160", we offer some of the largest capacities in North America. Depending on the application, molds can be cut from a variety of materials including softwood, (pine for foundry patterns), hardwood or composite materials for prototype molds (mahogany, reshape or polyurethane) or castings, aluminum billet, or steel machined to size for production tooling.

If surface data is not available, existing blueprints or 2-dimensional data can be converted to 3-dimensional surface data.

We are currently utilizing Unigraphics, Surfcam, Powermill, Pro-E, Autocad Solidworks and Catia software.



Tooling Technology manufactures many different types of forming tools for numerous industries and products including:

- Medical equipment
- Dunnage trays & pallets
- Hot tubs, spas, bathtubs & showers
- Swimming pools & steps
- Luggage
- Point-of -purchase displays
- Kitchen & bath products
- Boats, canoes & kayaks
- Agricultural & construction machinery
- Aircraft & rail car interior & exterior systems
- Drainage systems
- ATV's, golf cars & off-road vehicles
- Defense systems, appliances
- Lawn & garden products
- Racing car bodies & windscreens
- Fountains

...and many other custom outdoor, recreational & consumer products.

COMPRESSION TOOLING DEPARTMENT

We have experience making tooling, molds, check-fixtures & gauges for a very broad range of complex automotive, RV and heavy-truck components including: carpet & floor assemblies, headliners, trunk and cargo liners, flooring systems & assemblies, truck-bed liners, acoustical and thermal hood, door & floor insulation panels, inner & outer dash panels, inserts and décor, instrument panel insulators & closeouts, die-cut insulation, armrests, door trim, body side molding, bumper systems, fascias, ground-effects, wheel housings, & paint-film.

Form Tools

- Heated Platen
- Heated Electric, Oil, Water
- Pinch Trim
- Vacuum
- Single & Multiple Cavities

Lamination/Marriage Tools

Material Types

- P20 Steel
- 4140 Steel
- Mild Steel
- Alcamax (Aluminum)
- Prototype Epoxy

Tooling Features

- Gripper Plates
- Tentering Frames
- Hydraulic Punches
- Cookie Cutter Punches

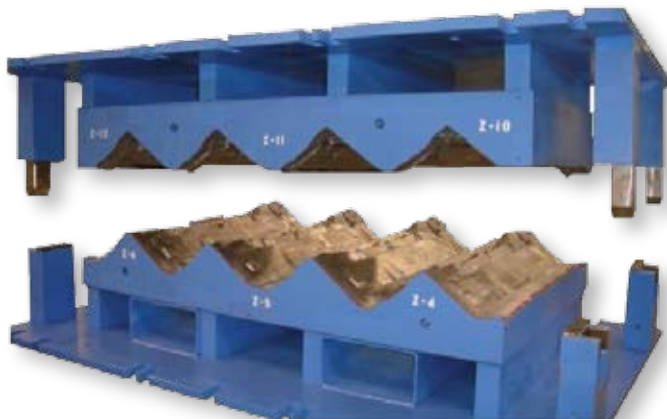
Trim Tools

- 2D & 3D
- Single & Multiple Cavities

Water Jet Fixtures

- Cast Aluminum
- High Temperature Epoxy/Fiberglass

Check Fixtures



FINISH AND FABRICATION/CMM CERTIFICATION

Tooling Technology, LLC offers full service mold fabrication and finishing services for all of our tooling, including the following:

Vacuum and pressure form tooling, twin-sheet tooling

Drilling for vacuum, plumbing and manifolding of the temperature control system, back plates, and standoffs, pressure boxes, plug assists, installation of blowpins, alignment pins, and any required machining. We offer molds with actuation and moving components.

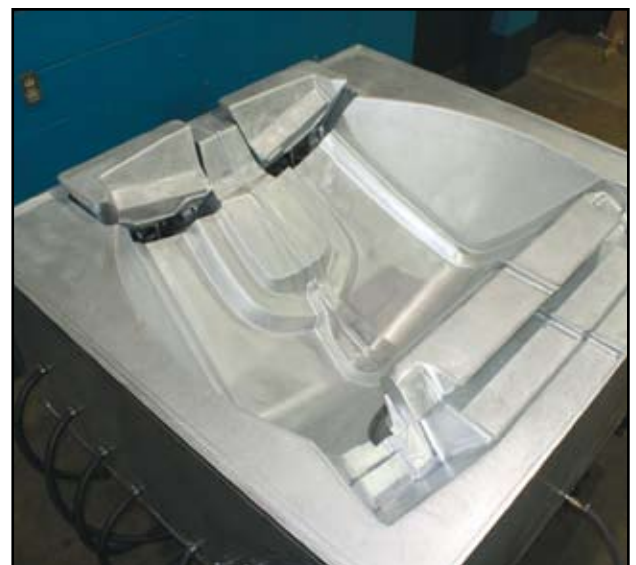
Rotational mold tooling

Fabricated spiderworks, alignment systems, springs and clamping systems, fill-ports, inserts, and machining.

EPS tooling

Venting, assembly of steam chests and loose cores into mold plates, ejector plates, any required machining.

For parts with undercuts or backdrafted areas, we also install air actuated, hinged or sliding mechanisms, depending on the specific application. We also offer special surface treatments for your tooling including polishing, sandblasting, or shot-peen texturing, all done in-house.

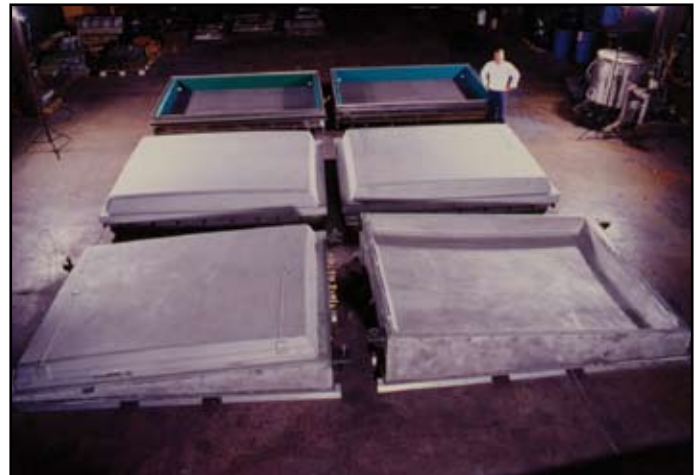


TOOLING FOUNDRY

Tooling Technology, LLC has established itself as a leader in the thermoform tooling industry by supplying quality cast aluminum thermoform tooling, on time, without any hidden costs.

Our facilities are among the most modern and largest in the industry with flask sizes upwards of 10' x 16' and pouring capacities greater than 7000 lbs. We pour a variety of different alloys depending on your specific application, and the surfaces of our castings can be polished, sandblasted, shot-peened, or acid etched. For temperature control, seamless stainless steel tubing in various diameters can be integrally cast into the back side of your tool.

Our modern facility, dedicated and experienced staff, and philosophy to do whatever it takes are a few of the reasons that Tooling Technology, LLC has the shortest lead-times in the industry.



Tooling Technology LLC is a leading provider of high-quality tooling for a variety of material forming processes including: thermoforming, twin-sheet & single-sheet vacuum forming, pressure forming, compression molding, rotational molding, blow molding, resin transfer molding, rubber and polyurethane molding, carpet & metal stamping, foundry tooling and pulp molding.

Our full range of in-house capabilities including patterns, models, cast tooling, finishing, CNC machining as well as design and engineering provide our customers with a complete, one-stop solution for their tooling needs.

Tooling Technology is one of the largest suppliers of form tooling in North America. We have over 65,000 square feet of manufacturing space with in-house CAD, pattern and model making capabilities. We have an aluminum foundry capable of casting stainless steel lines into molds for temperature control, more than 20 large-axis CNC machines, and a complete finish and fabrication shop. We also ensure the accuracy of our work with our coordinate measuring machine (CMM). Having made some of the largest forming tools in the world, we are also well known for having the shortest lead-times in the industry.



*Two facilities, one
convenient location, in
Fort Loramie, Ohio.*



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