



Delivering Tomorrow's Solutions Today

Extensive knowledge of thermoforming machinery and processes for virtually all plastic materials has made Brown Machine a leading tooling supplier. Through this combined knowledge and experience, we can optimize your machine / tool requirements, as well as assist in development of proprietary custom materials, features and applications.

Brown provides a full range of tooling solutions to fit your specific application for various brands of thermoforming equipment including:

- Form and Match Metal Trim Tooling
- Form / Trim-in-Place Tooling
- Form and Steel Rule or Forged Die Tooling with Stacking
- Various Upgrade and Replacement Components for Existing Tooling

We actively encourage an on-going, open dialog between you and our technical staff. The more we know about your end products and your specific requirements, the better we are

able to produce the perfect machine/tooling and services to meet those needs. Lab machines at Brown can be set up to perform confidential tests on a variety of material and manufacturing processes to validate the most innovative concepts. From prototype applications and acceptance trials, to on-site support for optimum cycle times, better material distribution, to form/trim optimization and product quality – Brown is always seeking a better process solution.

Manufacture of tooling at Brown includes daily interface for all aspects of production. Various internal meetings guarantee your project success. Face-to-face project reviews between your company and Brown ensure complete specifications and communications occur.

That's how Brown Machine can provide you with a prototyped, sampled, tested and proven "Turn Key" Machine and Tool solution.



Full Solid Modeling of Tools – Unigraphics (EDS) CAD System

Brown Machine designs all tool assemblies and discrete components as interactive solid models. Manufacture of each component comes directly from the electronic solid model thus reducing both defect rate and calendar time. We employ efficient manufacturing processes that include machining, assembly, inspection and testing. Certified ISO 9001 since 1998, we employ continuous improvement methodologies that encourage a creative approach to process improvements and cost reduction.

Most Advanced Engineering Design Process

Brown Machine maintains a set of “standard practices” for the design of thermoforming tooling. These standards assure consistent, reliable designs for each new tool we supply. All engineers follow the same concept and design

throughout the development of your tool. We also utilize a standardized tooling checklist designed to ask “all the right questions” each time a new tool is being specified.

Our custom-designed tooling programs aid in the development of your specific tool. By utilizing years of experience, applying physics, inputting cycle times, material information, as well as other variables, the program calculates and actually lays out the basic tool. The program performs a series of calculations to insure optimum production levels.

Completely Integrated Solutions Provider

Brown offers a complete line of both continuous and cut sheet thermoforming equipment; from entry-level to the most technologically advanced thermoforming systems. In addition to machinery, Brown customers enjoy a complete package of process engineering, tooling, retrofit kits, spare parts, and 24/7 customer service.

Leadership Through Innovation, Quality and Service

Serving the thermoforming industry since 1952, Brown Machine has earned a reputation for providing the most innovative, durable and dependable plastics equipment in the industry. With engineering and manufacturing capabilities in Beaverton, Michigan, Brown provides equipment, tooling and services to produce a wide range of thermoformed products in the following markets:

- Disposable Cup
- Food Packaging
- Housing
- Point-of-Purchase Packaging
- Material Handling
- Horticultural
- Automotive
- Lid and Plate
- Recreational Equipment
- Appliance

Today our equipment is producing products from a wide range of materials including:

- Polystyrene
- Polyethylene
- PVC
- Composites
- Polypropylene
- EPS Foam
- TPO
- Acrylic
- APET
- ABS
- Barrier Materials

Globally, Brown Machine totally supports its growing capital equipment business with a full complement of:

- Retrofit Kits
- Service: 24-7
- Remanufacturing
- Parts: 24-7

Continuous Thermoformers



Cut Sheet Thermoformers



Horizontal & Vertical Trim Presses



Lip Rolling Systems



Machines for Custom Applications



Tooling, Parts & Service



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A global leader of thermoforming technologies since 1952, Brown Machine LLC engineers and builds a complete standard line of continuous & cut-sheet thermoforming equipment as well as related tooling & peripheral equipment.

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