

CARTON CONVERTERS

THERMOFORM TRIM TOOLS

SPECIALTY TOOLS



**CREATIVE.
INTRICATE.
EXCEPTIONAL.**

LEADING LASER DIE MANUFACTURER SINCE 1967

SHARPLES

SHARPLESDIE.COM

THERMOFORM TRIM TOOLS

Thermoformers turn to Sharples as their diemaker of choice for trim station tooling. Thermoforming is an industry in which Sharples has a strong reputation in steel rule dies. We establish many of our new accounts from recommendations. Our success is based on our understanding of the customer's process. We look at the formed sheet indexing through to the final station, aligning up the formed parts to the trim, designing proper buildups to accommodate the part depth and, of course, helping our customers achieve the best trimmed part with different knife options, locators, and heat. Commercial steel rule diemakers may have some of the CNC equipment that Sharples uses but no one else will have the knowledge and decades of experience that Sharples has in thermoforming. With this experience comes our commitment to customer service and providing each customer with their own unique specifications that meet their needs. Our experience ranges throughout numerous inline machines including OMG, Kiefel, and Sencorp, to name a few.

SPECIALTY TOOLS

Steel rule dies are an economical way to trim various materials and are utilized in assorted manufacturing applications. By choosing Sharples, you are choosing a diemaker with a depth of experience in a multitude of industries. For example, we understand the different requirements of a tight tolerance gasket die in comparison to a large bulky interior automotive job or the clearance required with a formed part. Our experience ranges from packaging, gaskets, electronics, foam, vinyl, and specialty diecutters.

All steel rule dies are made with laser-cut boards of wood, clear plastic, or Rayform. Laser-cutting ensures the accuracy of tooling. It is our policy to check the kerf of all lasered dieboards as they are cut, a kerf check at the laser and at final inspection are critical. We have multiple lasers and shifts to accommodate our customers' demands.

Sharples can start with a file, part drawing, or formed sheet and create a full set of tooling that includes steel rule cutting dies, backup plates, cutting plate options, strippers, and stackers. Sharples also has years of experience in floating dies, multi-level, and heated dies.



Sharples offers automated bending for all aspects of diemaking from .937" - 4" and 2pt to 6pt thick. CNC bending is the best process in the industry to provide dimensional stability and consistency throughout all cavities. Mix this capability with our seasoned craftsmen and you've got a successful combination. That is why Sharples "Bends all the Rules."

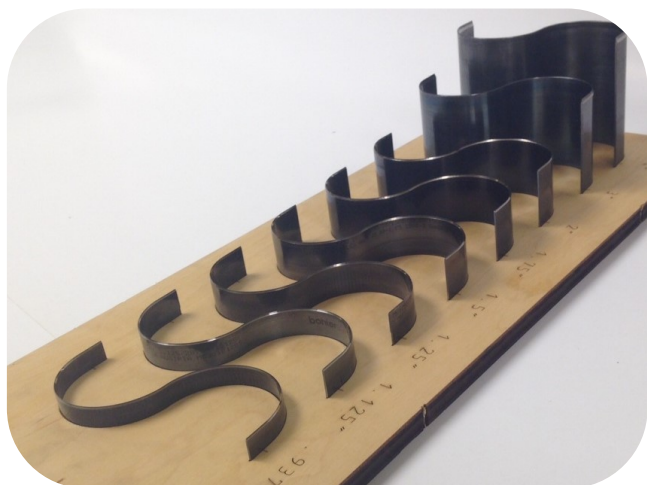
Added services such as striker plates, backer plates, waterjet ejection, milled pockets, welding, brazing, and QA inspection reports are available upon request.

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SHARPLES

Bending all the rules

**Creative.
Intricate.
Exceptional.**

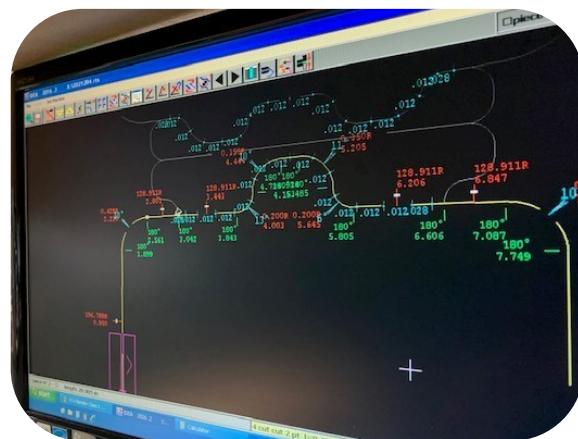


At Sharples, we understand the need for flexibility in different knife heights. Our long history in diecutting plastics makes us the leader for steel rule dies in the thermoforming industry. Tool influencers such as bevels, edges, and angles are considered with every job. Our wide range of knife inventory provides our customers with the flexibility for different jobs. All our equipment is state of the art, accommodating all heights of steel rule. Sharples "Bends all the Rules."

CNC bending aids in diminishing high spots in a die, dramatically affecting the die's flatness. Extra cavities of steel rule knife can easily be ordered for customers to have on hand for emergencies or maintenance.



Nicked tear strips and perforated hinges can be repeated, giving your customer an opening feature that can be duplicated in production each time it runs.



- ◆ .937", 1", 1 1/2", 2", 3" and 4" high steel rule knife
- ◆ Nicking inline and customer laser-cut knives.
- ◆ Wide range of knife inventory

(Contact your Sharples Customer Service Rep for more information)

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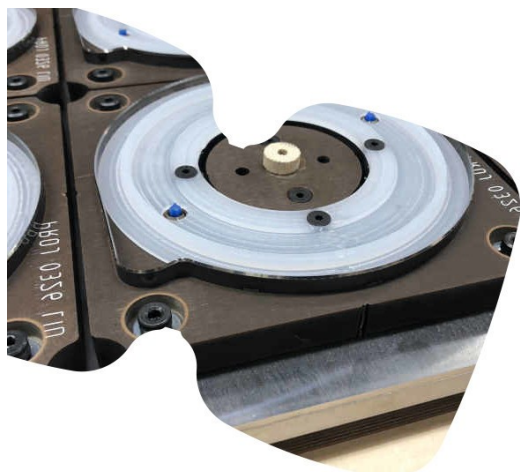
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Floating Dies

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Through the result of shrinkage in the sheet as it progresses to the trim station, knives that are in a fixed position are more likely to produce an inconsistent trim register. Sharples' multiple mounting options for floating and locating your die will assist in producing consistent parts throughout your mold layout. Floating dies, whether with a retainer or counterbored die base, will work well with the multiple locating options machined locators, laser-cut rings, milled pockets or cone locators. Sharples can help locate your formed parts and produce a consistent flange. Predicting shrinkage is based on layout, material and sheet progression. Every formed part and job can be different, having experience with different layouts and tooling options are what separates Sharples from our competitors.



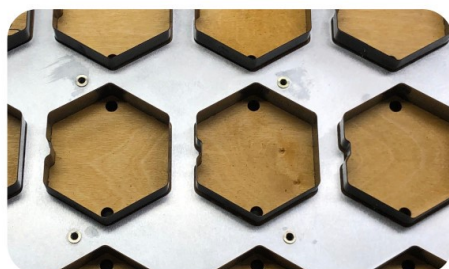
Male locators



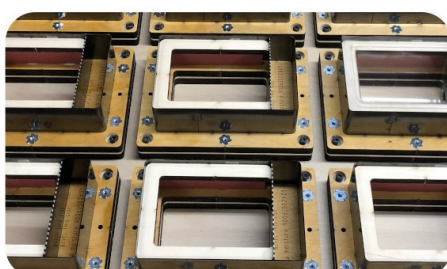
Locating with punches



Rayform milled



Retainer plate



Wood locators



Internal locator small flange

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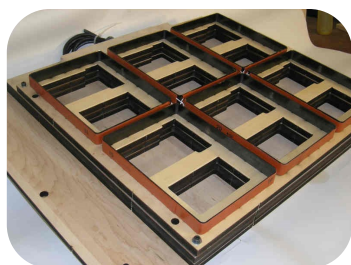
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Heated Dies

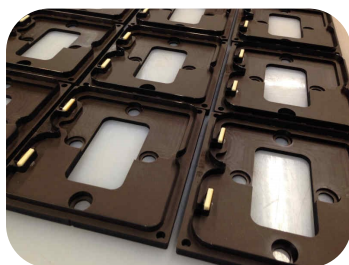
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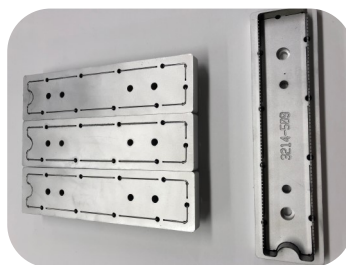
Heated platens can transfer heat to the die by utilizing different die bases which can aid in the cutting process. The other option is heat tape that will get the heat right to the tip of the blade. Both options are widely used throughout the industry. Sharples offers all options.



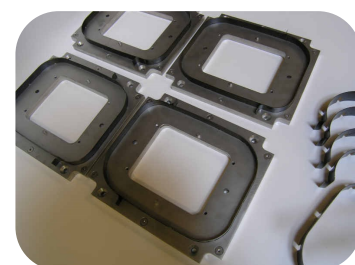
Heat Tape gets the Heat right to the cutting edge.



Rayform based dieboards are stable and a great insulator for Heated dies.



Aluminum Based Dies are a Great way to maintain a high heat temperature.



Stainless Steel can hold higher heats and will work well with Steel rule.

Heating a die will make the difference in trimming. A heated knife requires less tonnage and heat also improves the cut edge of the part, helping to reduce angel hair. Getting the heat to the die is a matter of different applications. One method is to transfer heat from the platen to knife. Sharples supplies an array of die bases such as Rayform, Aluminum, Stainless as well as wood dieboards. We use dieboard bases that help to insulate and maintain the heat on

different levels. Another option is wired heat tape. Sharples can supply a wired die with a terminal block. Heat tape is an involved process that limits floating, locating, and tolerance because of its construction, however, it is a great way to guarantee heat at the cutting edge of the die.



For more information or assistance on ordering or further information contact your customer service rep at Sharples

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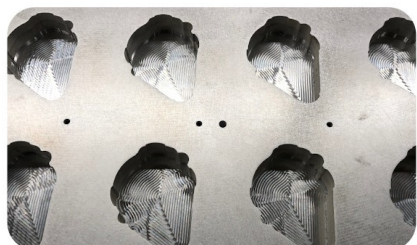
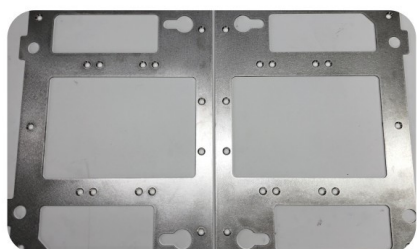
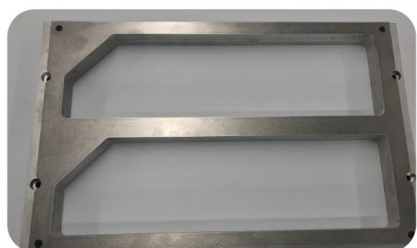


Cut Plates

Creative.
Intricate.
Exceptional.



No matter your terminology, Striker Plates, Anvils, or Cut Plates; Sharples is your source.



Sharples can provide you with multiple options for your required plate. As one of the few diemakers that stocks hard plates, stainless steel, and aluminum, Sharples can turnaround a striker plate quickly with a file and a Purchase Order. Our strength is having the multiple capabilities with laser or water-jet cutting various materials to work with master tooling. Sharples mills for pockets in various material to help clear parts. Polypropylene is another unique option for our customers that are looking for prototype cutting surfaces.



- ◆ Hard Plate Rockwell 50
- ◆ Waterjet cutting capabilities
- ◆ Repeatability
- ◆ Laser cut with Minimal heat added
- ◆ CNC Milling



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Stackers

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Sharples can provide fully assembled stackers or components for Thermoformers. When manufacturing a stacker, Sharples takes into consideration the geometry of the finished piece and the overall layout. A stacker can be created with as little as a mold file and/or molded sheet. All parts are laser-cut, milled or waterjet cut depending on the material and the application. Sharples offers the ability to create stackers with an array of materials including aluminum, steel, wood and some plastics. In recent years Sharples has developed and manufactured components to work with robotic stackers such as End of Arm Tooling. We work closely with mold makers and industry leading Thermoform Machine Manufacturers to understand our customers specifications and requirements.



- ◆ Count stackers
- ◆ Clean room alternatives
- ◆ Array of materials
- ◆ End of Arm Options



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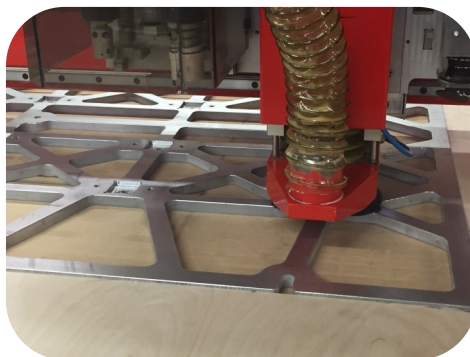
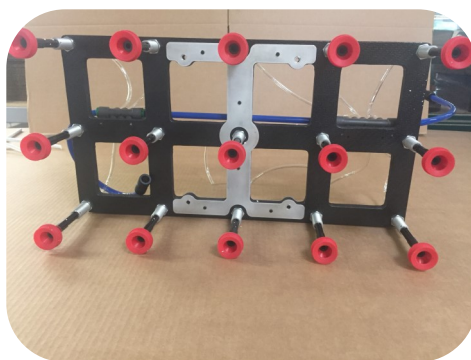
SHARPLES

End of Arm Tooling

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Lightweight and durable is the best combination for end of arm tooling. Sharples can provide components or finished End of Arm Tooling for your stacking and packing requirements. Milled lightweight end of arm (robot plate), fully assembled with suction cups to pick up your parts out of the web. Designs can be dictated by the customer's unique specs and machine manufacturers requirements. Sharples stocks a wide range of materials to mill and/or cut to fit inside your parts.

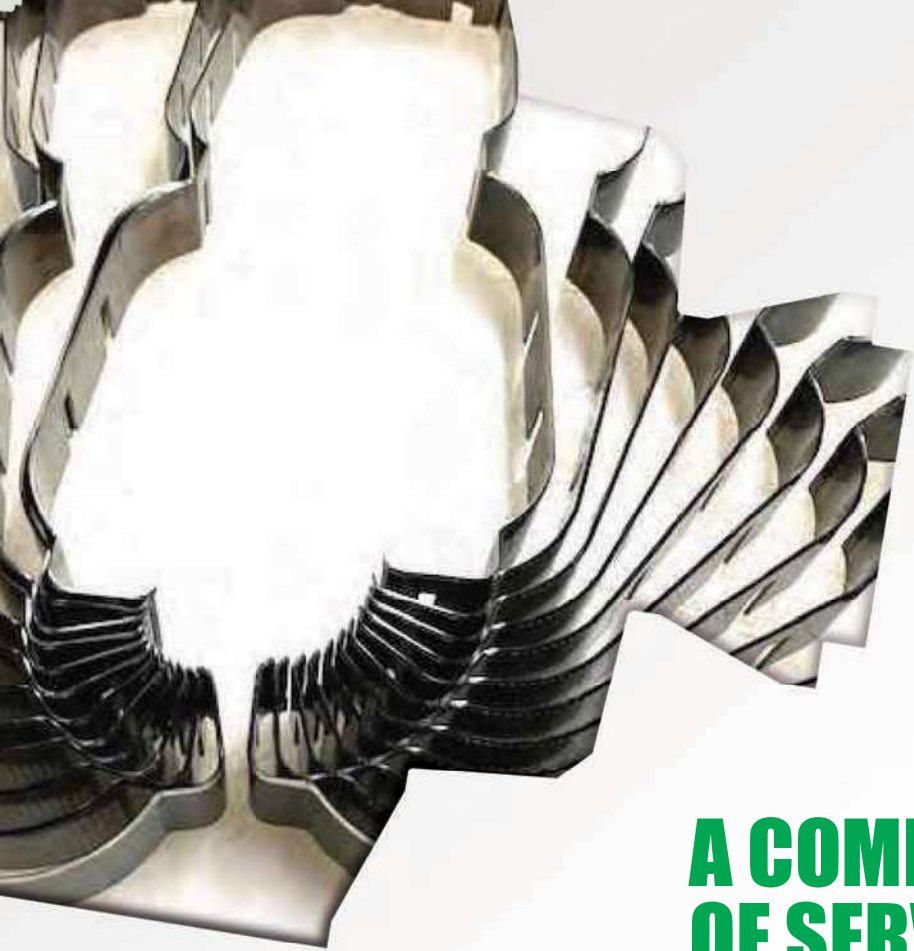


- ◆ Down stackers with suction cups
- ◆ Fully assembled EOA tools with tubing
- ◆ Male plugs to provide support parts while picking.
- ◆ Sharples has their own lightweight material options
- ◆ Laser-cut options
- ◆ Knifed pushers
- ◆ Waterjet cutting
- ◆ Aluminum milled plates

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A COMMITMENT OF SERVICE AND QUALITY TO OUR CUSTOMERS.

**PAPERBOARD
PACKAGING TOOLS**

**THERMOFORMING
DIES**

**SPECIALTY
DIES**

Commercial die shops may have some CNC equipment that Sharples has but no one comes close to the array of equipment, knowledge, strong history and reputation for superior customer service that Sharples provides to its clients.

Our client base is largely attributed to numerous recommendations from package engineers and machine manufacturers. Today, Sharples services clients throughout the United States as well as dozens of other countries throughout the world.

We have achieved success through the long-term relationships we have with many of our loyal clients. All our clients know that they can depend on our consistency, honesty, and commitment to quality.

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