



How to Reduce Costs for Plastic Caps, Closures & Other Packaging Products

Selecting the right injection molder can significantly benefit your bottom line



AdvanTechPlastics LLC
Global Plastic Solutions From A Reliable Domestic Source.



Reducing Costs for Plastic Caps, Closures, & Other Packaging Products: 6 Questions to Ask

When selecting a manufacturer for plastic components, look for a partner who offers complete plastic solutions. Rather than providing just the base molding services, they should guide your team with project management from the initial design stage to the delivery of the finished product.

At AdvanTech Plastics, we offer customers start to finish injection, insert and two-shot molding solutions. Our capabilities include part and mold design assistance, project management, prototyping, production molding, and secondary finishing operations such as pad printing, sonic welding and assembly.

As a cutting edge industry-leader, we have the experience and equipment necessary to help our customers succeed in their plastic product manufacturing projects by minimizing production costs and optimizing turnaround time. However, when consulting with our experts, customers often ask what to look for in a molding partner and how those qualities can benefit their bottom line. The following eBook aims to answer those questions.

Following the checklist below can streamline the process of selecting the right molding partner. While not comprehensive, it serves as a general guideline of how to choose a partner for manufacturing projects involving plastic parts, such as:

- » Caps and closures
- » Medical device components
- » Food and beverage packaging
- » Pharmaceutical packaging



What to Look for in an Injection Molding Service Provider

There are several qualities to look for in an ideal molding partner, ranging from manufacturing capabilities to physical location. The answers to the following questions should serve as key considerations when making final selections and reaching out to potential partners:

1 Do They Offer Tool Design Consultation and Optimization Services?

Manufacturing partners that offer design consultation and optimization services help to produce products with the lowest possible unit costs at the highest value. Some of the ways they achieve this goal are by:

- » **Assisting in the selection of the part material.** There is a wide range of plastic materials available, each of which has different properties that alter how it reacts to an injection molding operation. An experienced injection molding partner should be able to help choose which material is best suited for the intended application.
- » **Reducing material usage.** During the design and engineering stages, an injection molding partner may suggest alterations to a part design that optimize material consumption and reduce material waste without affecting the integrity of the part.
- » **Improving part design.** Additional suggestions from a partner's designers and engineers may also aim to improve the quality of the part—such as functionality or performance—or the efficiency of the production process.

2 What Is the Experience Level of Staff?

Having experienced employees offers several advantages, including higher skill levels for advanced applications which lowers the risk of production errors.

Another advantage of working with an injection molding partner that has an experienced staff is their likely familiarity with “lean” manufacturing practices. The principles of lean manufacturing focus on reducing and eliminating waste during the production process by:

- » Minimizing downtime before, during, and after various production operations
- » Optimizing inventory based on actual need and use patterns



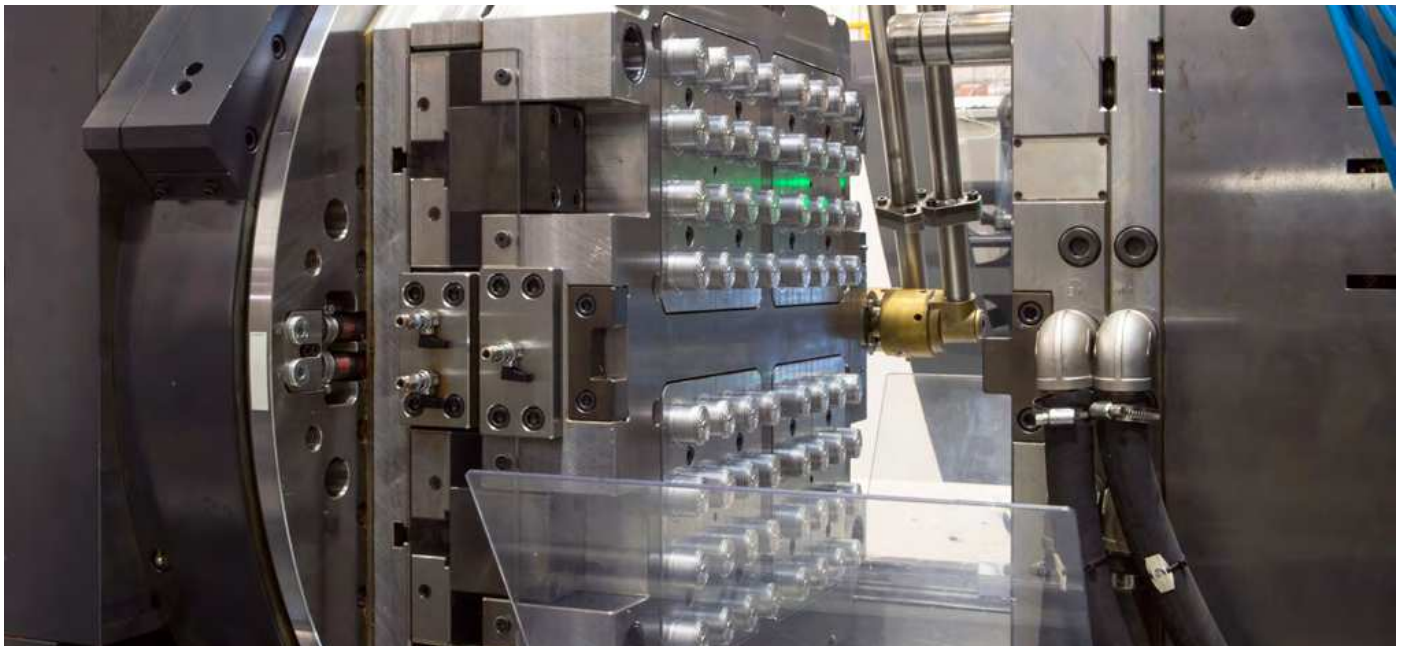


- » Reducing transportation costs
- » Removing inefficiencies
- » Implementing automation when ROI justifies
- » Isolating and removing causes of defects

Companies that practice lean manufacturing operate with streamlined production processes that ultimately result in less overhead requirements and lower per-unit costs. These savings can then be passed on to their customers.

3 Do They Have a Wide Range of Equipment?

An injection molding partner equipped with a wide range of in-house injection molding equipment has greater capacity and flexibility for future projects. Ideally, their facility should accommodate different shapes, sizes, and production volumes, as well as be able to handle secondary and finishing operations without having to work with a subcontractor. For example, at AdvanTech, we maintain injection molding equipment that accommodates shot sizes ranging from 2.4 to 44 oz. and tonnages of 55 to 400 from brands including Husky.





4 Where Are They Located?

The physical location of an injection molding partner can bring along a variety of advantages and disadvantages. For example:

- » Overseas injection molding service providers may offer lower production costs but may not abide by the necessary standards for quality and safety during production operations. Additionally, the existence of a language barrier may hinder communication between the contracting company and the vendor.
- » Domestic injection molding service providers may offer quality products with faster turnaround but at a higher cost.
- » Injection molding partners near a transportation hub can obtain raw materials quickly and at lower prices, reducing the overall cost of production.

5 Do They Have Sourcing Partnerships?

Injection molders with established sourcing relationships often have access to quality materials, molds, and equipment at lower costs and with faster delivery times. By having these partnerships with domestic or international sources, they can offer faster turnaround for customer projects.

6 Are They Experienced in Light-weighting?

Light-weighting is the industry term for any design optimizations that help reduce material waste. This process can involve sourcing recycled materials and improving product designs to accommodate thinner walls. At AdvanTech Plastics, we are experienced at thin wall molding and seal design, both of which enable us to optimize material usage in designs.



Plastic Injection Molded Parts by Industry

Injection molding is a manufacturing process employed in a wide range of industries. In particular, it often finds application in the production of product packaging, such as plastic caps and closures. Other industrial applications for the process include:



For the food and beverage industry, the manufacture of caps & closures, and rigid food-safe containers



For the personal care and beauty industry, the manufacture of cosmetics cases, lotion dispensers, makeup containers, and flexible hair care closures



For the pharmaceuticals industry, the manufacture of drug container caps

Additional industries that leverage injection molding services include:



Automotive for vehicle components such as instrument panels parts, control buttons, housings, and assemblies



Industrial/electronics for latches, tools, accessories, housings, and handles



Medical/dental for specimen containers, surgical equipment, diagnostic equipment, trays, and packaging



Contact AdvanTech Plastics to Start Your Injection Molding Order Today

Partnering with the right injection molding service provider can significantly reduce the cost of your plastic component manufacturing project. The ideal partner has:

- » Design consultation and optimization services
- » Knowledgeable team members
- » A broad range of equipment
- » Easy access to materials and molds
- » Light-weighting experience and capabilities

At AdvanTech Plastics, we have all of these qualities and more. Our full-service injection, insert and two shot molding solutions encompass part and mold design, project management, mold development, sourcing, production molding, and value-added services. Equipped with an ISO 9001:2015 and ISO 13485:2016 certified molding facility, our expert team has the tools required to meet and exceed your injection molding needs with the highest quality parts at competitive prices.

If you're ready to get started on manufacturing your next plastic part, [contact a member of our team](#) today.



About Us

AdvanTech Plastics strives to ensure world-class results providing design engineering, mold-design and build, molding, and secondary operations. Our engineers and staff have the knowledge base, experience and a zero-defect mentality to ensure efficient designs, rapid cycle-times, obsessive attention to tolerances, and on-time delivery.

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