



Complete custom plastic  
injection molding solutions

[performance under pressure]

# Reach new heights in **plastics**

Realize cost improvements

Reach your performance potential

Get to market quicker

We are your source for high-precision, custom plastic injection molding and contract manufacturing. We offer comprehensive mold design, prototyping, engineering, production, and assembly services.



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[thunderbird-molding.com](http://thunderbird-molding.com)

# Ready to **exceed your expectations** with a range of capabilities

## CUSTOM INJECTION MOLDING

Succeed in the marketplace. As experienced designers of complex, high-performance molds and related tooling, we have what it takes to conceive, prototype, and produce high-quality plastic components and products that protect your margins and enable your success in the marketplace.

- Insert-molding and over-molding capabilities
- Prototype-to-production support
- Short-run to high-volume production

## MOLD DESIGN AND TOOLING

Improve part quality, reliability, and manufacturability. Successful parts start with a well-designed mold. With in-house mold design and tooling expertise, deep knowledge in a range of materials, application knowledge, and capabilities, we build custom injection molds and guide your products from design through production.

- Internal mold design and manufacturing
- Rapid and reliable transfer tooling
- P20 and aluminum prototype tooling to production tooling



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## INTEGRATED MATERIALS

Two-shot injection molding and over-molding capabilities give you the opportunity to create products in a greater variety of styles, colors, and textures. Combine two different plastics or plastic over metal for more complex parts. We are experienced in the design, prototyping, production, and supply of these intricate products for a range of applications.

- Two-shot injection molding expertise
- Improved component reliability, strength, and structure
- Reduced assembly and labor costs, part size and weight



## CLEAN ROOM

For ultra-clean, contaminant-free medical parts that meet industry regulations, we have a Class 7, ISO-compliant, FDA-registered clean room. Together with our experienced staff, our clean room enables us to safely manufacture and assemble injection-molded products for medical OEMs that meet the stringent needs of the industry and ensure patient safety.

- Capabilities for diverse medical and pharmaceutical companies
- Assembly-approved for streamlined delivery of complex parts
- Expansive Class 7 ISO-compliant clean room



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## QUALITY CONTROL

Quality assurance and on-time delivery are the prerequisites to supply chain value creation and delivery. Our meticulous inspection processes and state-of-the-art equipment ensure our custom plastic injection molded components and products meet the highest standards of quality. Ongoing investments in quality and operational efficiency enable us to meet and transcend performance measures.

- Digital project and production tracking
- Repeatable part tolerances to +/- .001"
- Automated, 3D video inspection

## FINISHING SERVICES

Add value to your parts. Streamline your manufacturing processes. In addition to highly specialized in-mold decorating, we offer a range of traditional secondary and finishing services for the parts we mold. Beyond high-quality custom plastic injection molding, we provide additional services that streamline your manufacturing and go-to-market processes.

- In-mold decorating expertise
- Spin welding and sonic welding
- Turnkey assembling and inspection
- Kitting and custom packaging



State-of-the-art equipment and processes ensure we achieve the highest standards of quality.



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# Expertise aligned with **your needs**

With our customers' needs top of mind, we strive to be the leader in injection molding and plastic parts. We help companies solve problems through innovative solutions that our expert teams execute flawlessly.

## LARGE PRESS

Turn big ideas into big parts. To provide your large plastic parts, we focus on the smallest of details. With custom plastic injection molding presses ranging up to 1,550 tons of clamp and over 80 high-performance resins to choose from, our facilities are specially equipped to handle your large orders from start to finish.

**UBE ULTIMA**  
**UN 1550HW/i128**  
*All Electric Injection Molding Machine*

## SHORT RUN

Equipped and experienced to satisfy your short-run, low-volume needs. Our quick-mold-change systems and Master Unit Dies enable efficient mold changes, saving you time and money. From purchasing small lots to efficient resource scheduling, we provide value during short-run projects.



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## CLEAR PLASTICS

From drinkware and lighting to critical lens-grade parts for the defense industry, our experience and expertise in clear custom plastic injection molding enables us to control hydrolysis and oxidation for pristine plastics, providing high-quality, flawless final products.



## FFL MANUFACTURING

Defend your bottom line. We support leading firearms OEMs with the design, engineering, and production of critical, durable components in plastics. Our custom plastic injection molding capabilities streamline and accelerate production, lowering per-part costs for firearms programs.

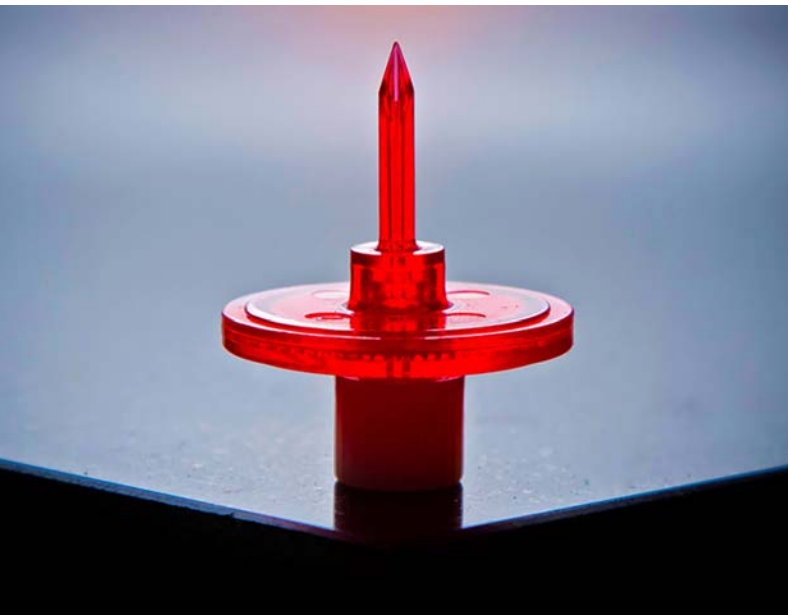


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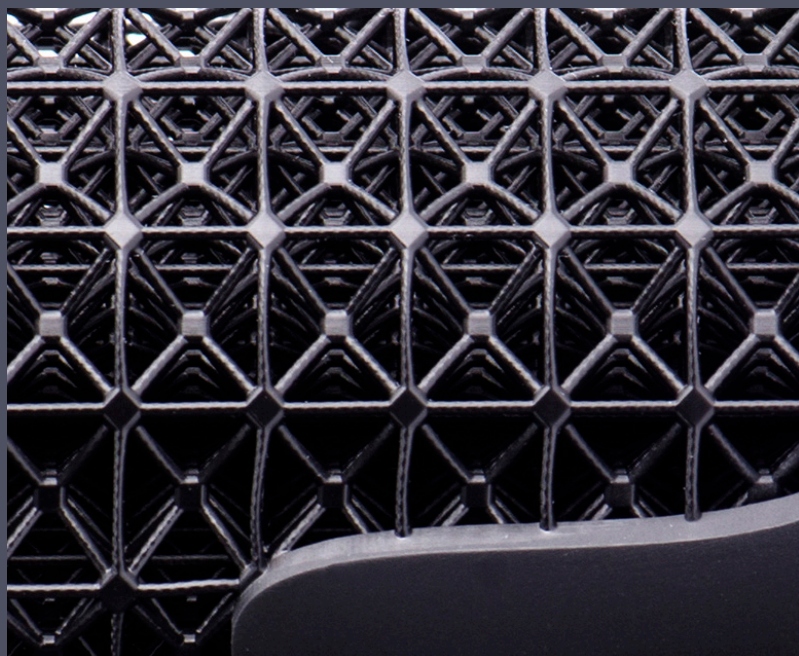
## TIGHT TOLERANCE

Meet the precision expectations of your customers. We use the most advanced custom plastic injection molding machines to achieve the extremely tight tolerances required in many industries, including aerospace, medical, military, industrial, technology, and consumer.



## 3D PRINTING

A faster, ideal solution for prototyping and low-volume production, our 3D-printing capabilities give us the ability to manufacture durable, high-precision parts in small runs. We have a digital manufacturing platform that offers a faster process and creates high-quality, end-use parts.





# Making an impact in industries where it matters

We serve a variety of exciting industries including medical, consumer, defense, aerospace, technology, and telecom. Bring us your biggest challenges—we are here to help.

## AUTOMOTIVE

**Achieve custom plastic injection molding solutions that boost business performance.**

For automotive OEMs, Tier 1 and Tier 2 suppliers, we custom-engineer solutions that offer cost and performance benefits while accelerating production timelines.

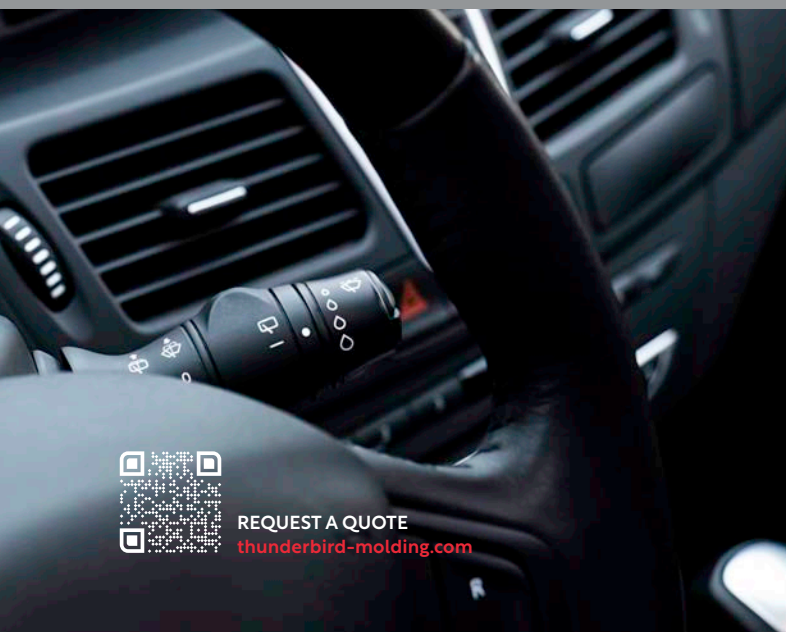
- Instrument panel lenses and components
- Handles, knobs, and assemblies
- Housings, controls, and buttons

## MEDICAL

**Parts and components that meet the stringent standards of the medical industry.**

Our facilities are ISO 13485:2016-certified for medical device manufacturing and FDA-registered as a medical device manufacturer with a Class 7, ISO-compliant (Class 10,000) clean room with assembly capabilities.

- Surgical equipment components
- Test kit components and assemblies
- Vial vent filters, caps, and connectors



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## MILITARY AND DEFENSE

Military and defense customers require **reliable, durable parts and components that are accurate to within microns**. Our people and our custom plastic injection molding processes come together to produce parts with predictable and consistent mechanical properties.

- ITAR registered and FFL Licensed
- Parts, components, and assemblies

## SPECIALTY

Serving your niche. Whatever your need, we can help you make it better through **custom plastic injection molded parts**. Our multiple facilities have the experience and versatility to make molded parts for a wide range of markets, industries, and applications.

- Agricultural equipment
- Building components
- Consumer products

## AEROSPACE

Design and manufacture **better commercial aircraft interiors**. Our teams assist your engineers in the design and testing of products. We adhere to certified and approved processes before, during, and after manufacturing to comply with industry policies and procedures.

- Interior components
- Insert-molding and over-molding



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## TECHNOLOGY

As you innovate to meet evolving technology needs, you must partner with an equally innovative source for custom plastic injection-molded products. We embrace the latest industry manufacturing trends and technologies to support your teams in pushing the envelope.

- Fiber-optic spool covers and carrying cases
- Prototypes and products in development



## CONSUMER

To meet your project's unique demands, we have more than 80 high-performance resins that withstand the harshest of conditions. Our custom plastic injection molding operations turn your vision into reality through presses ranging from 40 tons to 1,550 tons, for projects of any size.

- Housings and covers
- Dispensers and containers
- Accessories for recreational uses

Our custom plastic injection molding operations turn your vision into reality.



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Thunderbird Molding™ has multiple state-of-the-art facilities:

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Thunderbird Molding | Elkhart  
2221 Industrial Parkway  
Elkhart, IN 46516  
574-294-3253

Thunderbird Molding | Shelbyville  
2201 E. Michigan Road  
Shelbyville, IN 46176  
800-383-4701

Thunderbird Molding | Clearwater  
2050 Sunnydale Blvd.  
Clearwater, FL 33765  
727-446-8593

Thunderbird Molding | Elgin  
1551 Scottsdale Court, Unit #100  
Elgin, IL 60123  
847-468-9950

Thunderbird Molding | Greensboro  
4833 W Gate City Blvd.  
Greensboro, NC 27407  
336-668-3636