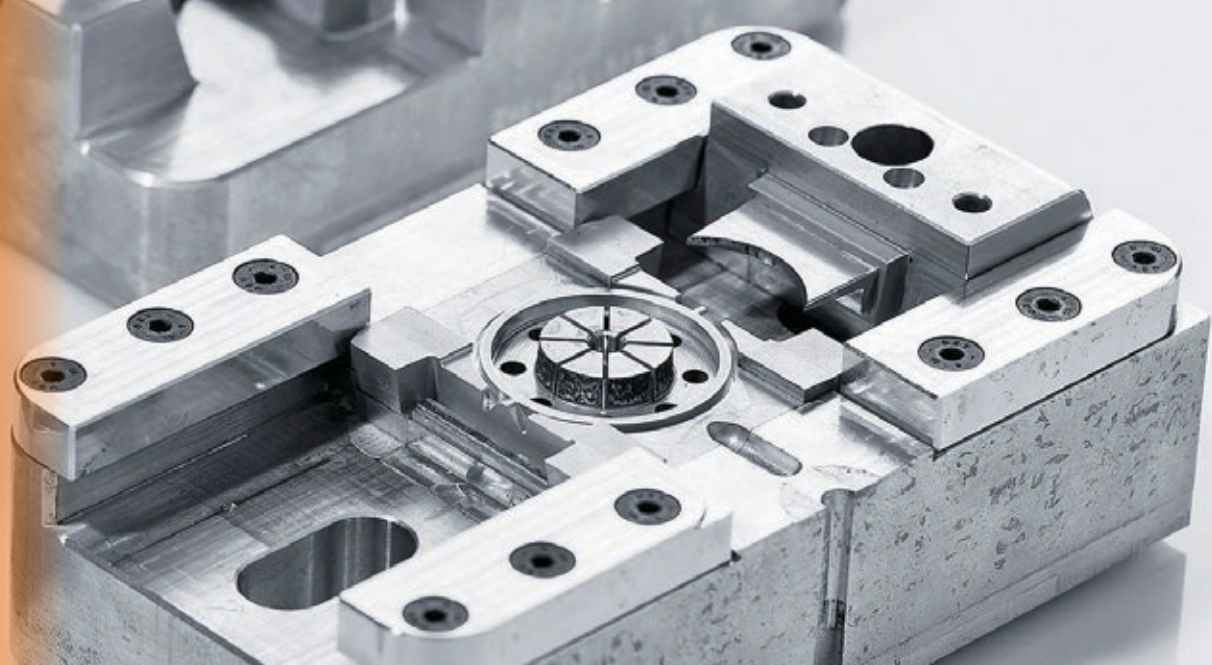




INJECTION MOLDING



# Mastery in every mold

At Aprios, we specialize in precision plastics for mission-critical parts like medical devices and safety equipment.

We know the stakes are high, so our plastic molding products meet the highest standards of accuracy and reliability. Our rigorous quality control ensures flawless parts, making us the go-to choice for dependable, high-stakes plastic manufacturing.

## FEATURES & ANCILLARY SERVICES

### 1. Prototypes to Production at Scale

Our injection molding services cater to a wide range of needs, from small quantity prototypes to full-scale production. Whether you need a few test pieces or millions of units, we have the capability to meet your demands efficiently. Our flexible production processes ensure that you receive high-quality parts on time, every time.

### 2. Tool Transfer

We have a defined project management and quality assurance process for intaking tools from other manufacturers. Our team can repair and modify existing tools to get your production back on track quickly. With our expertise, we ensure a smooth transition and minimal disruption to your manufacturing process.

### 3. Post-Processing and Assembly

Beyond molding, we provide comprehensive post-processing and assembly services. Our secondary operations include machining, bonding, and finishing, ensuring that your parts are ready for immediate use. We can also offer assembly and packaging in our Class 8 Clean Room, maintaining the highest standards of cleanliness and quality.



## INJECTION MOLDING

# Design for Manufacturing (DFM), for Injection Molding

### OPTIMIZE DESIGNS FOR EFFICIENT PRODUCTION

DFM for injection molding involves optimizing the design of parts to improve manufacturability, reduce costs, and enhance quality. Integrating DFM principles ensures your designs are optimized for efficient injection molding production.

Key DFM Considerations to lead to high-quality, cost-effective parts:

- Wall Thickness – uniformity prevents defects such as warping and sink marks.
- Draft Angles – facilitate easy ejection from the mold.
- Ribs and Gussets – add strength without increasing wall thickness.
- Minimize or Eliminate Undercuts – simplify mold design and reduce tooling costs.
- Gate Placement – ensure uniform filling and minimize defects.
- Material Selection – suitable for your product's performance requirements.
- Mold Flow Analysis – to predict and address potential issues such as air traps, weld lines, or hotspots.

For more information, please scan the QR code below.



### CONTACT US

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