



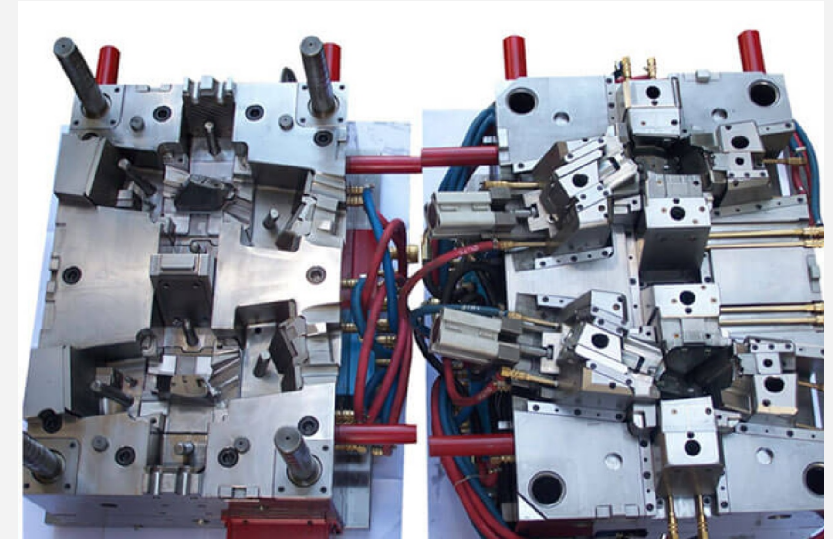
PLASTICS & MOLDING
CUSTOM PLASTIC INJECTION
& BLOW MOLDED PRODUCTS


Business Presentation

Highly **Re**liable Molded Plastic components

About Us

- ❖ Established since 1984, 40+ years of thermoplastic injection and blow molding experience.
- ❖ We serve every facet of the molding process from part evaluation, 3D Printing, prototyping, tool design, tool making, sampling and production of quality finished plastic parts.
- ❖ Our commitment to product quality, on-time delivery, and superior customer service has enabled us to forge strong.
- ❖ We can process almost infinite variety of thermoplastic resins, including engineering grade materials such as PEEK, ULTEM, PVDF, LCP, PPS, PES, PC, PBT, ABS, NYLON, Glass Filled Nylon, ACETAL, PP, HIPS, HDPE, LDPE, ELASTOMERICS (TPE), POLYURETHANES, ACRYLIC, PVC and many other specialty filled / unfilled grades too numerous to list.



- , 13485:2016 Certified
- an Room Manufacturing Space
- at competitive prices.
- standing applications.
- f the business. (Part design, onshore & offshore mol
- ed secondary services)
- s.
- ivery vehicles to ensure accurate just-in-time delive
- es through a full-time trainer and pay-for-knowledge
- and maintain industry skill levels.
- ssociates ready to serve your injection and blow mo
- competitive, and delivery is the best in the industry.
- ng customer service.
- 



Custom Injection Molding

- ❖ Engineering support on part design evaluation
- ❖ Mold design, DFM, Mold Flow
- ❖ Prototype or production mold making
- ❖ Close tolerance injection molding services.
- ❖ 15 Injection molding presses, capacity ranging from 50 to 900 ton.
- ❖ Vertical injection molding to support your insert and over-molding needs.
- ❖ Post-mold processes and product assembly.
- ❖ Specialized packaging services.
- ❖ 20,000 sqft molding facility with plans to expand to 60,000 sqft by year 2027



Medical Injection Molding

- ❖ ISO 7 (Class 10,000) certified clean room manufacturing space is ideal for your medical or aerospace projects.
- ❖ ISO 13485 Medical certification
- ❖ Clean room assembly services
- ❖ Clean room ultrasonic welding services



Custom Blow Molding

- ❖ Engineering support on part design evaluation
- ❖ Prototype or production mold making
- ❖ 1ml to 7-gallon size custom blow molded containers capability.
- ❖ Post-blow molding processes leak testing, neck trimming, filling, heat sealing & assembly.
- ❖ Specialized Packaging Services.
- ❖ Industrial bulk containers, jugs, jerry cans, consumer & household items, toys
- ❖ Pharmaceutical bottles, medical supplies like pipette, vials, bellows, jars
- ❖ Building industry products, automotive-under the hood parts, appliance components



Blow Molding

- PE, PP, K-Resin, Copolyester(Tritan) Extrusion Blow Molding capability.
- We like to take on challenges to produce unique & hard to blow mold type custom bottles & containers.
- Our blow molding process technicians have 60+ years of combined processing experience.
- On-shore Off-shore mold making capabilities.
- Automated neck trimming
- Automated EBM machines with 200-point parison programmer for wall thickness control.
- Environmentally clean fully HVAC production facility.



ISBM

Blow Molding

- ❖ Our ISBM capability include processing materials such as PET, RPET, PP, PC, and Tritan in various applications, from medical and pharmaceutical to cosmetic and food containers.
- ❖ Some products manufactured through ISMB can include:
 - Soft drink bottles
 - Food containers
 - Cosmetic bottles/containers
 - And more

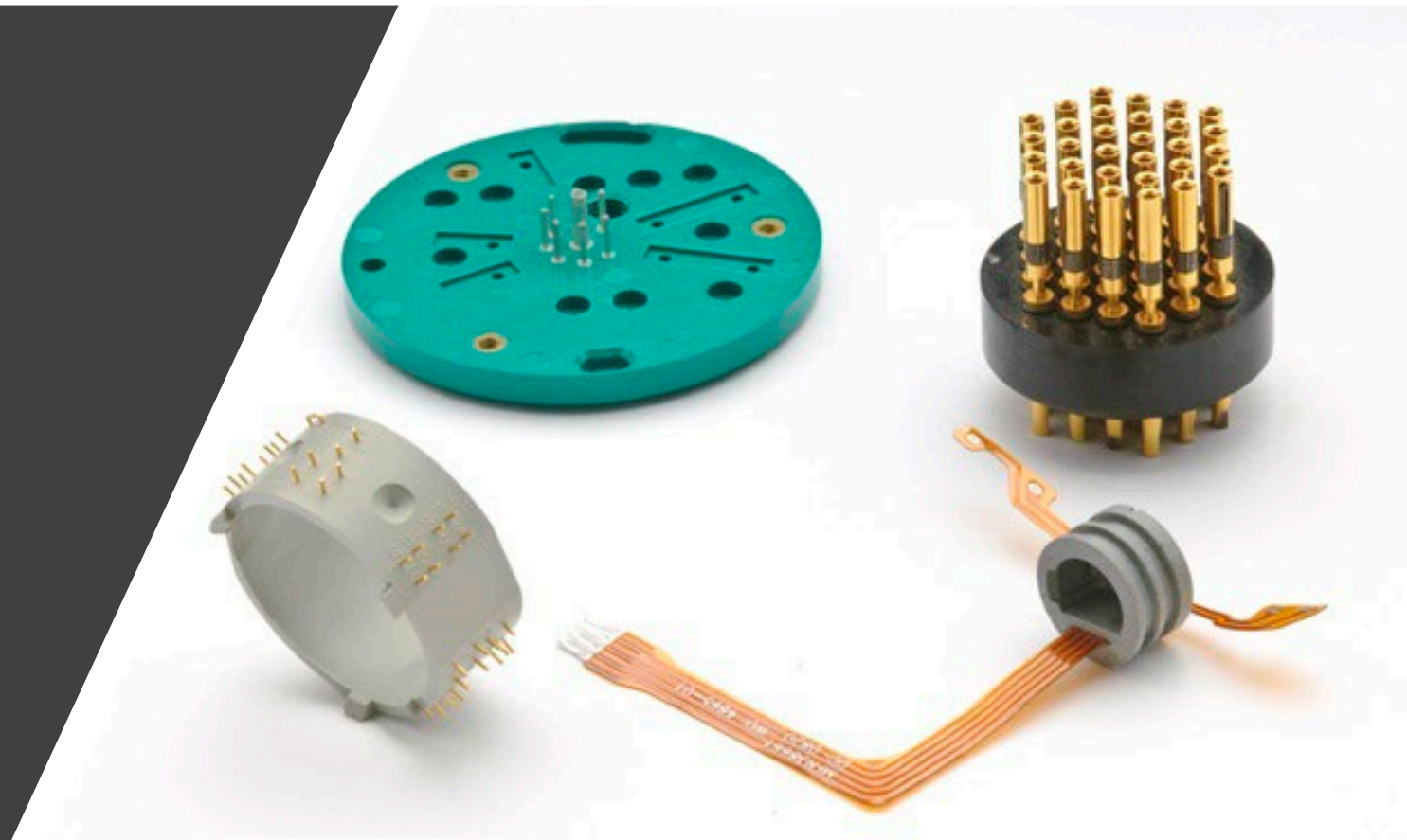


MA-100							
PROCESS	Injection Stretch Blow Molding (ISBM)						
MATERIAL	PET, PP, PC, Tritan, PETG						
Cavities		1	2	3	4	5	6
Neck Diameter	mm	63	42	32	27	25	17
Body Diameter	mm	115	90	68	56	45	35
	inch	4.52	3.54	2.67	2.20	1.77	1.38
Height	mm	300					
	inch	11.79					
Approx. Filling Cap	ml	2500	1500	600	250	100	30



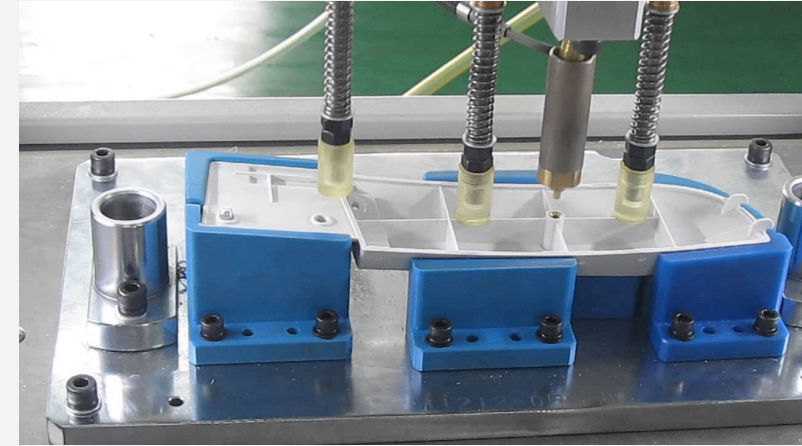
Other Capabilities

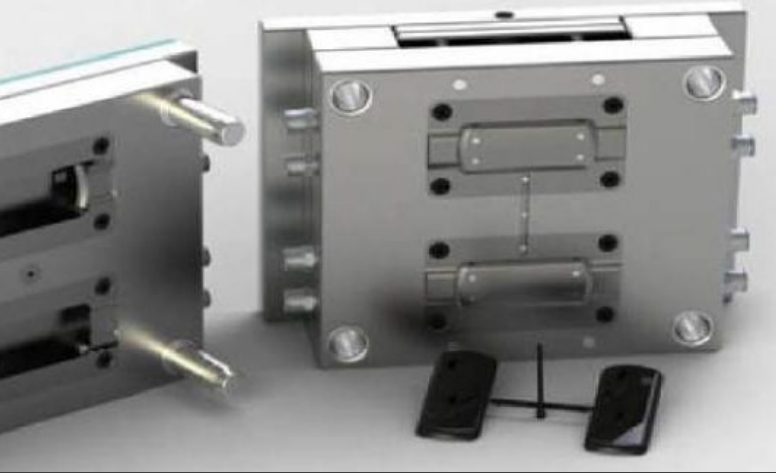
- 3D PRINTING / RAPID PROTOTYPING
- MOLD/TOOL MAKING
- LIQUID SILICONE RUBBER MOLDING
- INSERT MOLDING
- OVER MOLDING
- ROTATIONAL MOLDING
- THERMOFORMING
- PLASTIC METAL MACHINING
- ASSEMBLY SERVICES
- COIL WINDING



Value added secondary services

- ❖ Plastic & Metal Machining
- ❖ In-Mold Decorating
- ❖ Color matching
- ❖ Pad Printing
- ❖ Hot Stamping
- ❖ Label Application
- ❖ Heat Transfer
- ❖ Ultrasonic Insertion
- ❖ Ultrasonic Welding
- ❖ Heat Insertion / Heat Staking
- ❖ Adhesive Bonding
- ❖ Metal Plating
- ❖ Product Assembly Services
- ❖ Custom Packaging & Shipping





Industries Served

- Medical
- Aerospace
- Automotive
- Defense
- Research & Lab equipment
- Electronics
- Construction
- Communications
- General industrial
- Oil & Gas
- Renewable Energy
- Household & Consumer Products
- Cosmetics and Personal Care Products
- Irrigation
- Agricultural & Farming Equipment

Quality Control

- ❖ We are ISO 9001:2015, AS 9100 Rev D, 13485:2016 & MBE Certified
- ❖ Hi-Rel Plastics & Molding, Inc. is committed to achieving and maintaining the satisfaction of our customers by meeting or exceeding all their requirements, delivering defect-free products on time and providing competitive prices.
- ❖ Through the use of Standard Operating Procedures (S.O.P.s), all phases of our customers' jobs including set-up, molding production, in-process inspections and secondary operations are documented to their specifications.
- ❖ Traceability of all production runs are maintained by Quality Staff. Our modern, digitally controlled equipment ensures repeatability of production runs, dedication to quality and continuous process improvement.
- ❖ Our internal compliance with quality specifications reaches 99%, assuring 100% customer satisfaction.



Our Certifications





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Looking forward to work on your upcoming project

Email us at info@hirelplastics.com

Thank You !!

Highly **Rel**iable Molded Plastic components