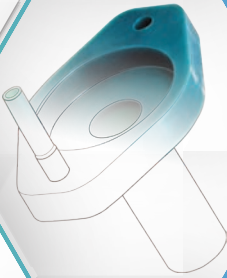




Custom Molded Solutions

Engineered Solutions. Manufacturing Excellence.

Custom
Design
Parts



Modify
Standard
Parts



1,000+
Materials



Assembly
& Packaging



ENGINEERING | PROTOTYPING | TOOLING | PRODUCTION

From Innovative Engineering to Precision Manufacturing

Serving as the leader in plastic, vinyl and rubber molding for over 75 years, Caplugs combines engineering expertise with our passion to solve challenges to be the one molding partner you need.

Our knowledgeable engineers work with you to design the optimal solution for your individual application, environment and dimensional specifications.

32 million
parts produced per day

375+
molding machines

13 global
manufacturing facilities

6 in-house
manufacturing processes

The **1** partner you need

Our expertise and versatile capabilities

allow us to select the best option for your specific application and provide the most effective and cost-efficient solution.

We have you covered

from simple components to complex challenges, along with the scalability to serve your needs from low-volume to high-volume production.



Save Time



Save Labor



Save Money



Improve
Performance



Increase
Efficiency



Meet Exact
Specifications



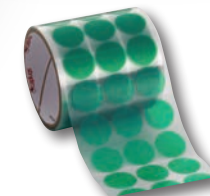
Injection
Molding



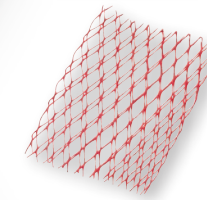
Rubber
Molding



Vinyl Dip
Molding



Die-cutting



Extrusion



Vinyl
Coating

WE MAKE CUSTOM MOLDING EASY

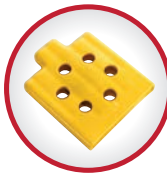
Modify Standard Parts To Fit Your Exact Needs



CUT



SLICE



PUNCH



PAD PRINT



COLOR
MATCHING



ASSEMBLY



MATERIAL
OPTIONS



SPECIAL
PACKAGING

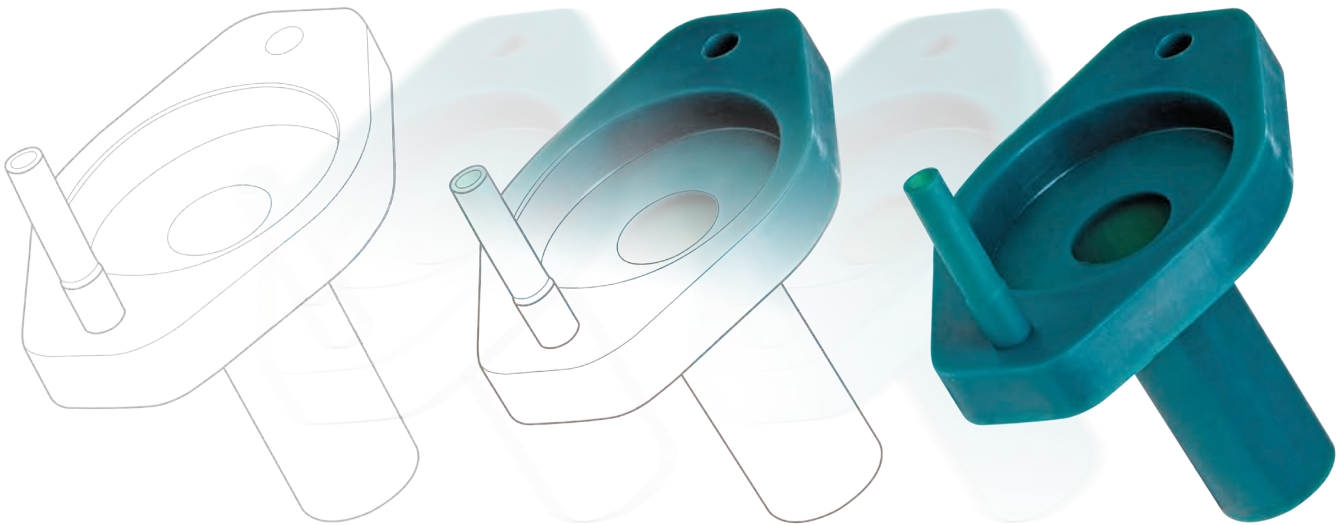


SONIC
WELDING

Your solution may start with one of our 50,000 standard catalog parts that is then customized to your needs. This customization can include color matching, using alternative materials, using one of our existing tools during the production process or modifying a part post-molding.

Create a Custom-designed Solution With Our Team of Experts

Our engineering team can design custom parts to meet your specific needs. If you already have a part design, we'll run it through an extensive DFM (Design for Manufacturability) process to ensure a tool design and build that consistently produces quality parts to your exact specifications.



Working from our **extensive existing tool library** provides great advantages:

- Customize efficiently using our interchangeable mold base system with an existing mold base and a new insert
- Saves tooling cost for end customer
- Provides quicker tooling turnaround
- Allows scalability as your volume requirements increase



In-house Control at Every Step

Our comprehensive in-house capabilities have you covered from custom engineered designs, prototyping and tool building to full production, packaging and inventory storage.

COLLABORATIVE
PROBLEM-SOLVERS

EXTENSIVE
MATERIAL AND
COMPOUNDING
OPTIONS

LARGEST
TEAM OF
IN-HOUSE
ENGINEERS

Every stage of your project is handled by a **team of experts** dedicated to your account to ensure seamless communications and **your ultimate success.**

We Make Custom Projects Easy

When molded solutions are customized specifically for your application, you realize efficiencies, savings and performance advantages.

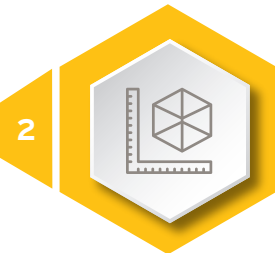
EFFICIENCIES
DURING
PRODUCTION

SAVINGS
IN MATERIALS
AND SETUP

PERFORMANCE
ADVANTAGES
OF END PRODUCT

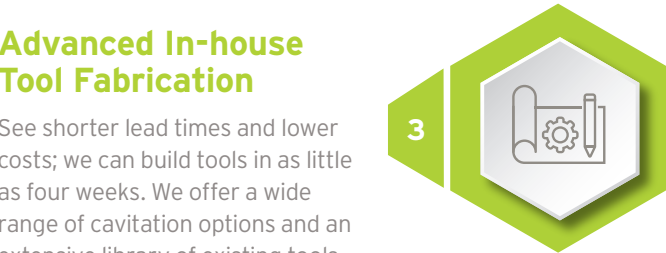
Design & Collaborate

Already have a concept or design? We can help you with a full DFM analysis, from tooling and processing options to material selection, to ensure the most cost-effective and efficient solution.



Rapid Prototyping

Prototypes are built in-house to confirm fit requirements before production approval, ensuring high-quality outcomes. Single-cavity and 3D printed prototype tools are used to prove our designs.



Advanced In-house Tool Fabrication

See shorter lead times and lower costs; we can build tools in as little as four weeks. We offer a wide range of cavitation options and an extensive library of existing tools for scalability and efficiency.

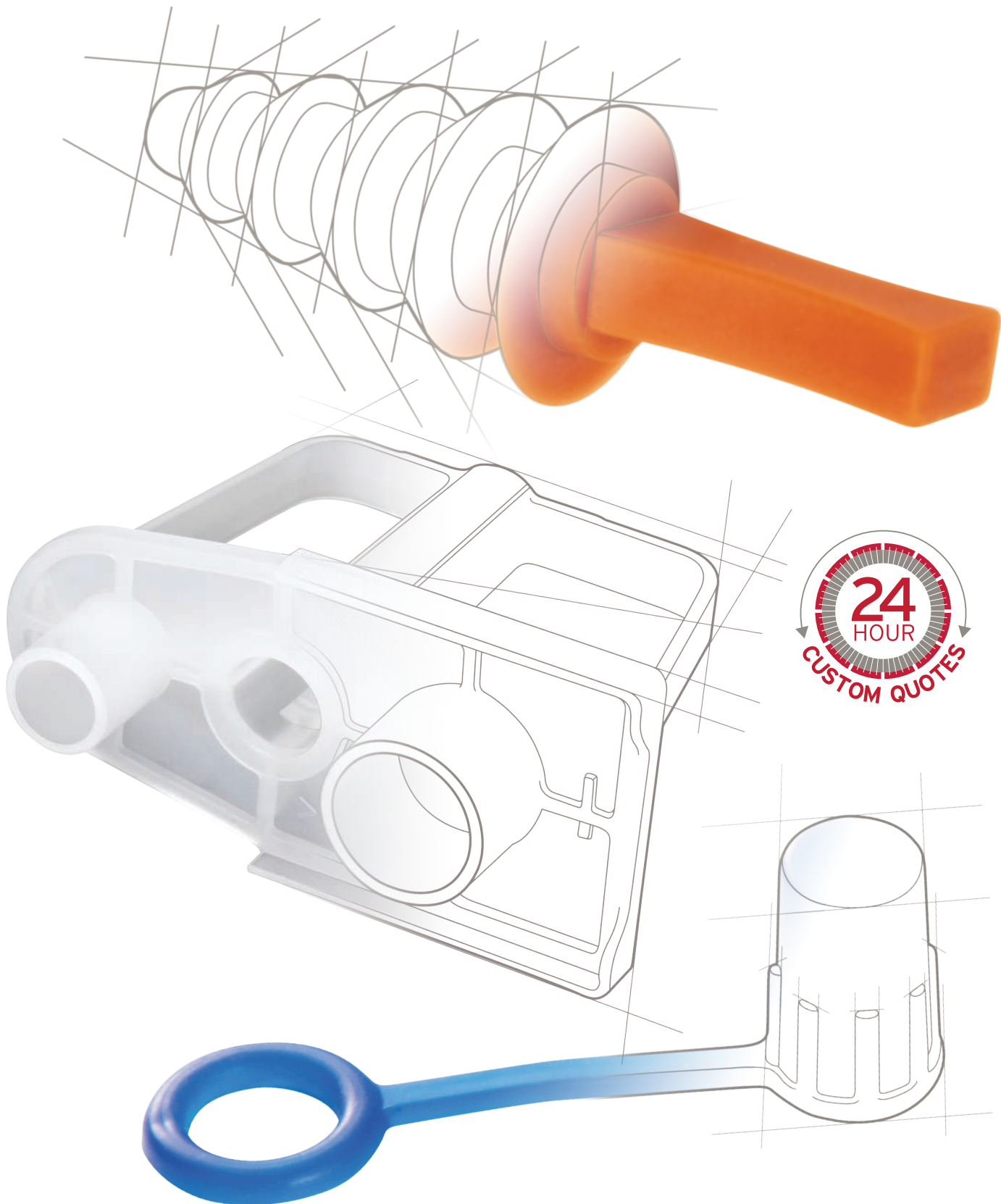


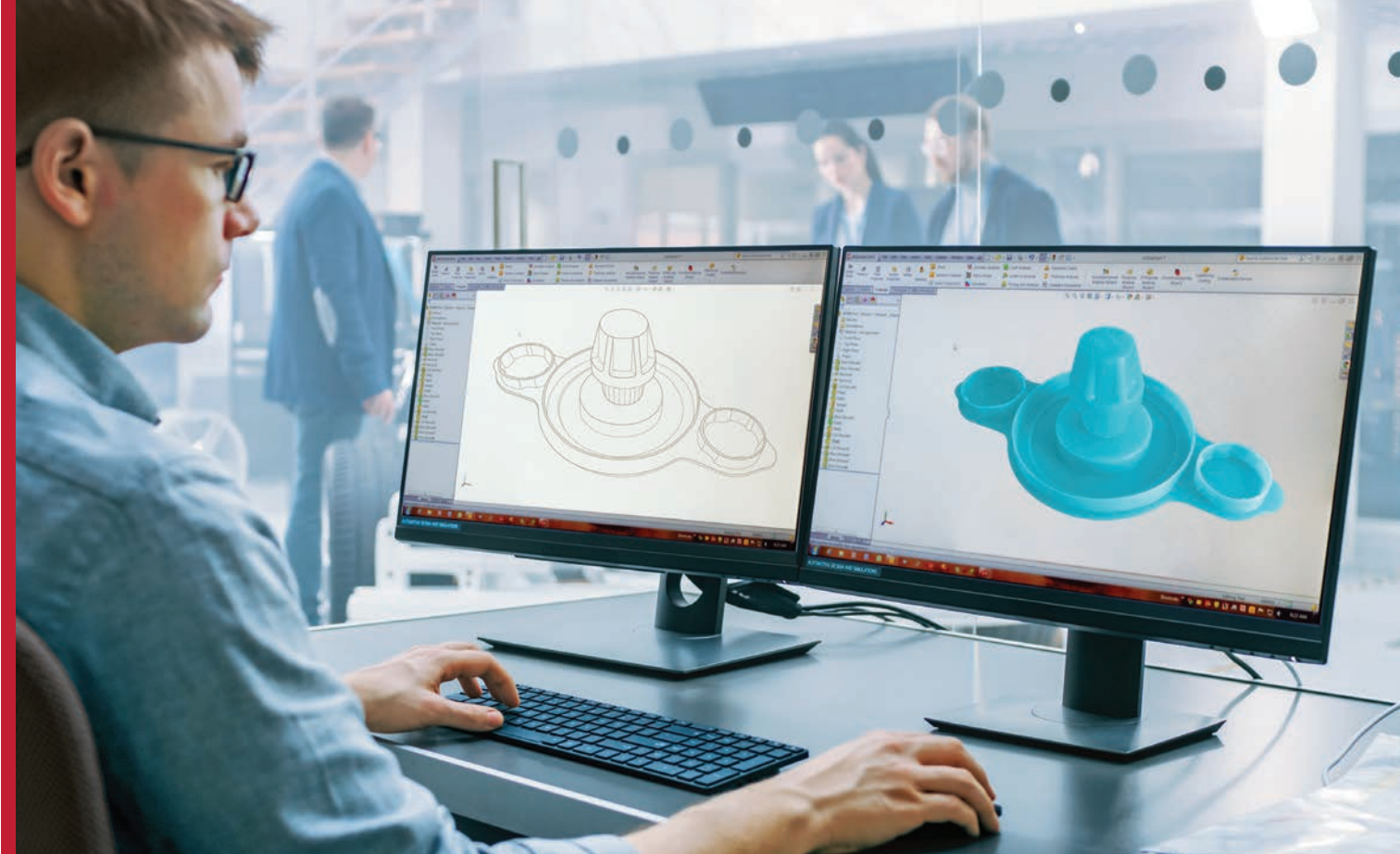
Full Production Capability

Our wide range of equipment allows us to produce products efficiently, whether it's a small volume run or millions of parts.

Logistics Support

We offer a wide range of shipment and inventory solutions, such as JIT, EDI, Portal Management, ASNs and more. We can also provide flexible and specialized packaging options to meet customer needs.



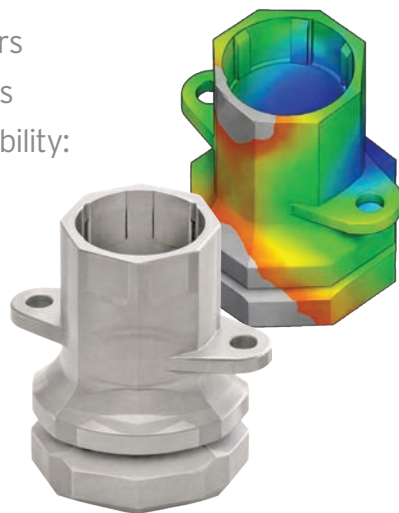


In-house **Engineering**

Bring your challenge to the collaborative problem-solvers at Caplugs

Our team of experienced design engineers and molding experts work with you one-on-one from concept to design. We meet your exacting requirements, designing a component fit for your unique specifications, improving part performance and process efficiencies.

- 30 SolidWorks engineers
- Staff of molding experts
- Design for Manufacturability: Improves moldability and optimizes production for reduced risk, better cost control and consistent, reliable quality



Scientific molding for greater process control

Our scientific molding approach uses data-driven process development and validation.

- Improves part consistency and repeatability
- Enhances process stability and control
- Reduces variation and defect risk
- Optimizes efficiency and production performance



INSPIRING
PLASTICS
PROFESSIONALS

In-house **Tooling**

Build complete tools faster

Our advanced in-house tool rooms give you versatile capabilities, using state-of-the-art equipment, including:

- 5-axis machine, wire EDM, sinker EDM, turn centers, precision grinding, laser welding and engraving

Prototyping for quick turn

Rapid prototyping gives you full production while saving time.

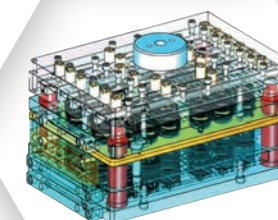
- 3D printing - FDM and SLA capabilities
 - 5 Printers in house
 - Wide range of materials available
 - Most can turn around in three days or less
- Prototype production tools
 - Proprietary bases system: single-cavity for fully functional prototypes

Tool build, maintenance & repair

- In-house repair and maintenance
- Guaranteed one million shots on Caplugs-built tooling
- Class 101 tools for extended life



5,000+
PRODUCTION-READY
CUSTOM MOLDS
(not featured in catalog)



The Right Materials To Meet Your Needs

Our team will help you select the right materials from many available standard options to suit your particular application.

Material temperature resistance

Up to 650°F		Up to 300°F		Up to 190°F	
650°F/343°C	Aluminum	300°F/149°C	HNBR	190°F/90°C	Linear Low-Density Polyethylene
600°F/315°C	Silicone	300°F/149°C	Nylon	190°F/90°C	TEO 58
500°F/260°C	Polyimide	300°F/149°C	Crepe Paper	190°F/90°C	ABS
500°F/260°C	Glass Cloth	300°F/149°C	FlexTemp (Thermoplastic Rubber)	180°F/82°C	IR
500°F/260°C	Flex500™ Vinyl	300°F/149°C	EPDM	180°F/82°C	NR
450°F/232°C	Glass Filled Nylon	300°F/149°C	Cork	175°F/79°C	Low-Density Polyethylene
425°F/220°C	Polyester	300°F/149°C	Aluminum Foil	170°F/77°C	Anodizing Vinyl
400°F/204°C	FKM	250°F/121°C	CR	150°F/65°C	Rubber
400°F/204°C	Teflon	250°F/121°C	NBR	150°F/65°C	Polyethylene Terephthalate Glycol
400°F/204°C	Polyester	250°F/121°C	Polycarbonate	150°F/65°C	TPE
400°F/204°C	Paper	250°F/121°C	Styrene Butadiene	140°F/60°C	Ethylene Vinyl Acetate
350°F/177°C	Standard Vinyl	250°F/121°C	Polypropylene	140°F/60°C	PVC
350°F/177°C	Neoprene	225°F/107°C	Lead-Foil		
		215°F/102°C	High-Density Polyethylene		
		215°F/102°C	High-Impact Polystyrene		
		200°F/93°C	Crepe Paper		

The information above depicts the intermittent temperature-resistance characteristics of the entire list of Caplugs materials. The data contained herein is for reference purposes only. This data represents typical properties and not product specifications.

Wide Variety of Custom Material Options

Custom materials & additives to match performance features:

- Chemical/fluid resistance
- Conductive material
- Fire retardant
- Glass-like clarity for visibility
- Glow-in-the-dark
- Gripping & foam finishes
- Matte finish
- Medical grade
- Neon
- Pantone color matching
- Phosphorescent
- Photoluminescent
- Recyclable material
- Sound dampening
- Static dissipative material
- Temperature resistance
- Textured finishes for gripping
- Translucence for light transfer
- UV resistance



Custom rubber compound mixing & development

- In-house chemists can custom-mix materials to achieve desired performance characteristics and requirements.
- Mixing capabilities for organic and silicone materials: EPDM, NR, NBR, SBR, HNBR, CR, IR and FKM

Options include:

- Custom coloring
- Self-lubricating
- UL94 flame-resistant
- Wear-resistant
- FDA medical grade silicone
- High-temperature-resistant
- FDA grade EPDM

Widest Range of Production Capabilities

Advanced equipment & technology

Our range of processes and materials means more options to meet your needs. Caplugs offers six different in-house manufacturing processes. All manufacturing is done in-house and under our strict quality management system to ensure process control.

- 375+ molding machines
- 5,000+ production-ready custom molds
- Interchangeable mold base system
- Advanced, in-house tool room
- 3D modeling
- Rapid prototyping
- 30 SolidWorks stations



A unique specialization in rubber molding

We utilize three manufacturing processes, including compression molding, transfer molding and injection molding, with custom material compounding for color and feature requirements.

ISO 9001
IATF 16949
ISO 14001
ISO 13485
REGISTERED

CERTIFIED
ISOCLASS8
CLEAN ROOM

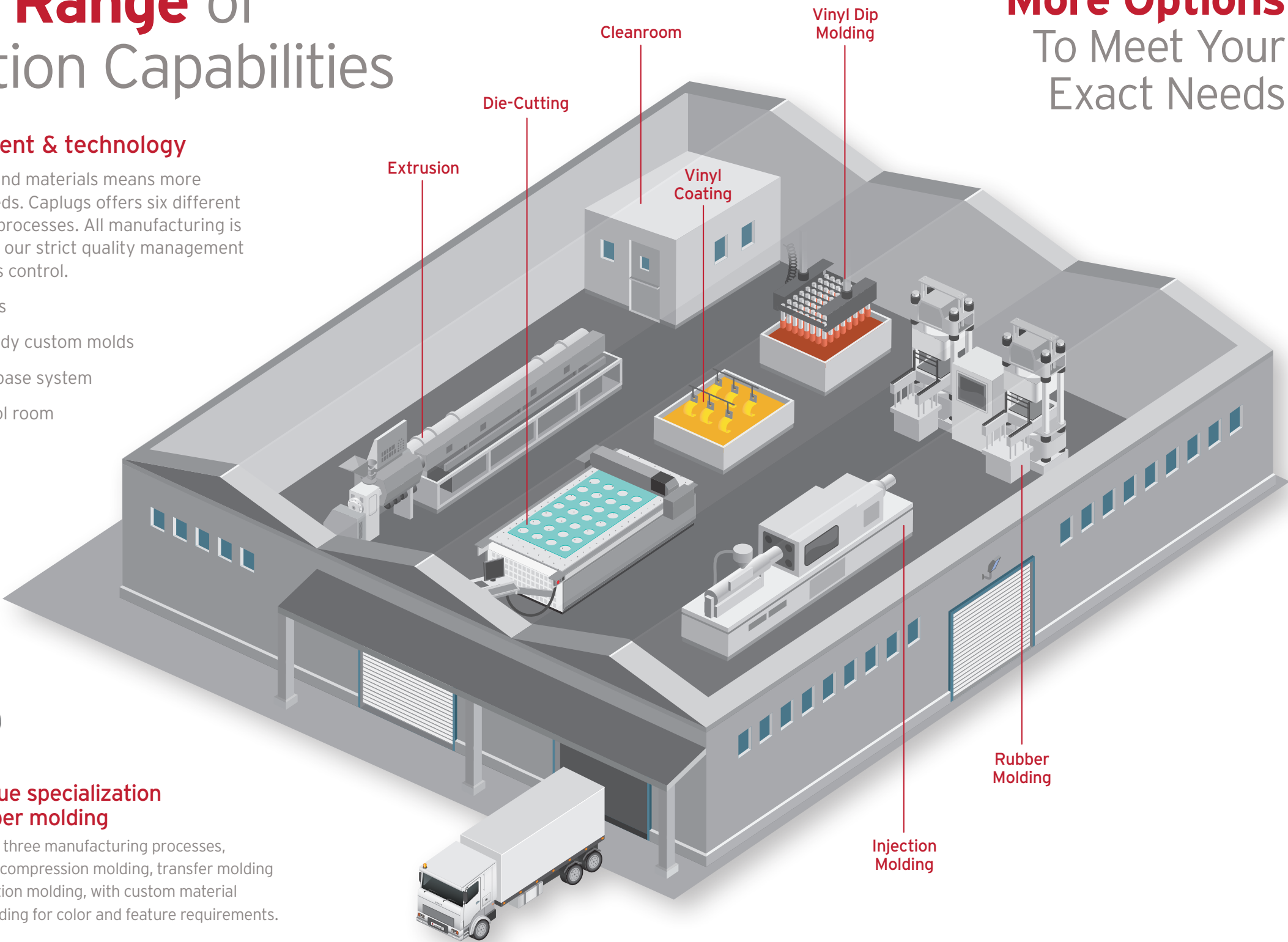

JIT SHIPPING


PPAP
CERTIFICATION


99% On-Time Delivery


COMPREHENSIVE QUALITY LAB

More Options To Meet Your Exact Needs



INJECTION MOLDING

Our most popular process, producing a wide range of plastic & vinyl parts.



VINYL DIP MOLDING

Quick, economical tooling producing parts that provide a flexible, secure fit.



EXTRUSION

Produces tubes, edge liners, hose protection, wraps & netting.



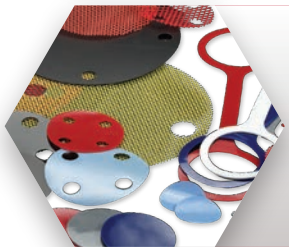
RUBBER MOLDING

Utilizing injection, compression & transfer molding for a range of performance characteristics.



VINYL COATING

A permanent vinyl layer added to existing parts for protection and functionality.



DIE-CUTTING

Four in-house, fully customizable processes for masking purposes & product protection.

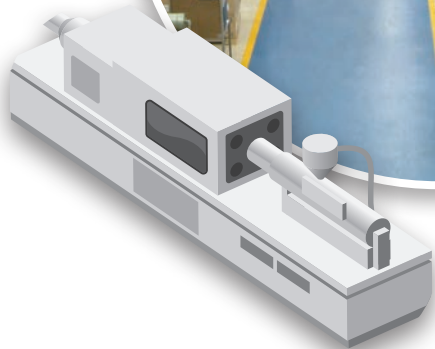
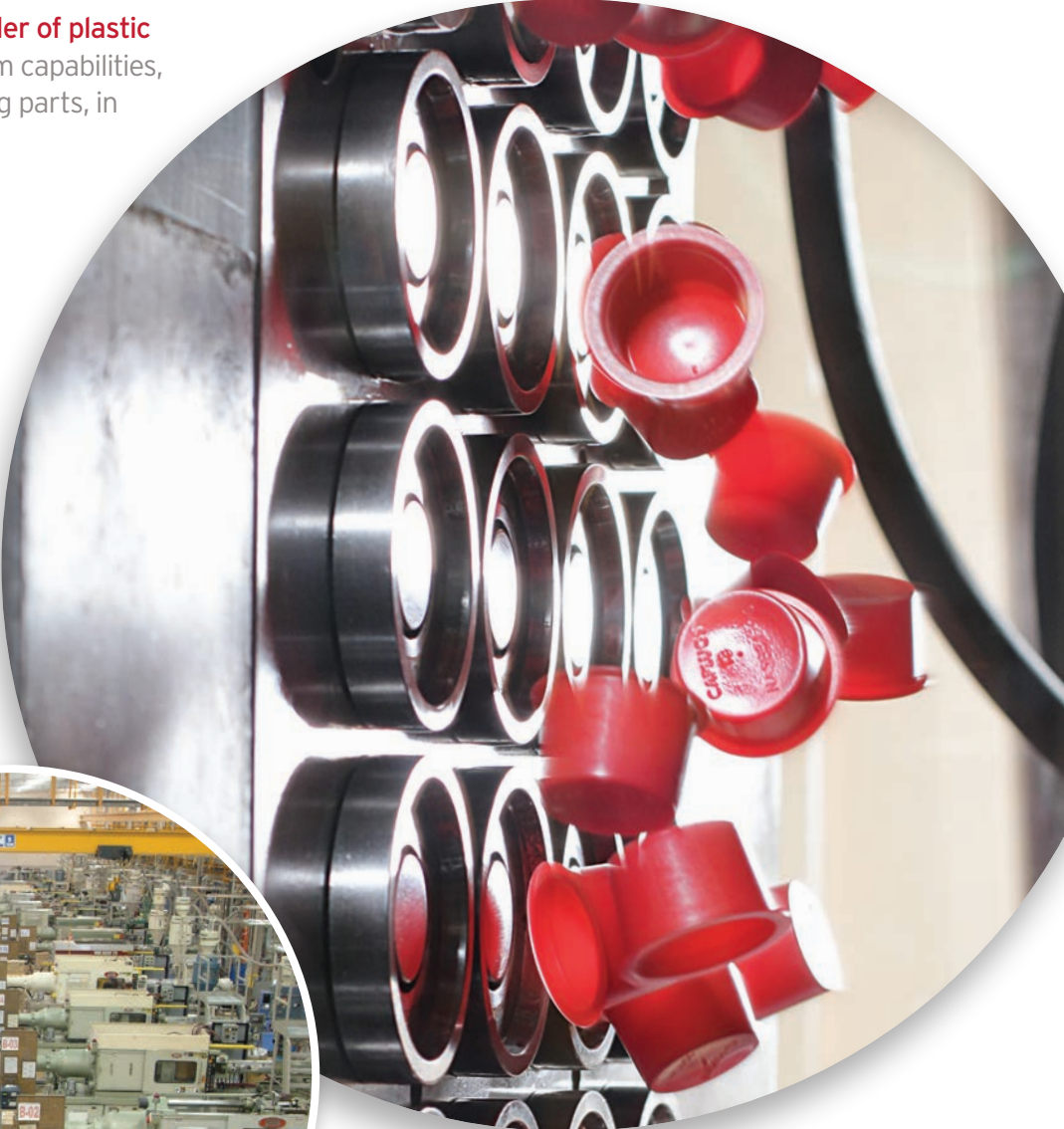
AN ENDLESS RANGE OF PRODUCT SOLUTIONS

Production Capabilities— Injection Molding

Caplugs is the largest injection molder of plastic components with full in-house custom capabilities, plus the most extensive line of catalog parts, in stock and ready to ship.

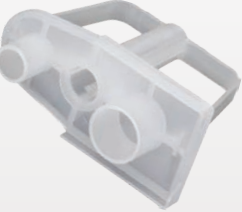
Injection molding is a highly efficient manufacturing process ideal for producing complex, high-precision plastic components with excellent consistency and repeatability.

- 200+ machines ranging from 7 to 1,100 tons
- Scalable process accommodates small runs or large volumes
- Hundreds of materials and additives to meet your performance requirements
- Advanced in-house tool room for greater speed, control and efficiency



- Leverages our exclusive interchangeable mold base system, which reduces costs and allows shorter lead times
- Produces over 300 different standard styles of injection molded plastic parts and 50 different series of injection molded vinyl parts
- Cleanroom and white room molding also available

INJECTION MOLDING CUSTOM PART PROFILES

BODY/ASSEMBLY	 Glovebox Light Access Panel Plug Engineered for vehicle-life durability, featuring multiple friction click-tabs for a precise, snap-tight fit—produced in glass-reinforced nylon.
TRANSMISSIONS	 Differential Plugs A smart contamination protection solution with an ergonomic handle that positions perpendicular to the cap for quick, easy removal from the cavity.
CONNECTOR COVERS	 Connector Protection Designed with internal ribs for a firm, moisture-resistant fit, with a flanged edge that wraps around connector entry points for added contamination protection.  Quick-Connect Fitting Dust cap covers inlet and outlet ports, snapping firmly in place to protect quick-connect fuel line fittings during transit and handling.
HVAC & THERMAL UNITS	 Inlet/Outlet Port Fitting Block Cap Designed to keep debris and moisture out of the fitting block, delivering reliable protection during shipping, handling and storage.  Dual-Port Cap/Plug Engineered to manage thermal expansion on a condenser, providing a secure, dual-port seal that maintains system integrity under temperature fluctuation.

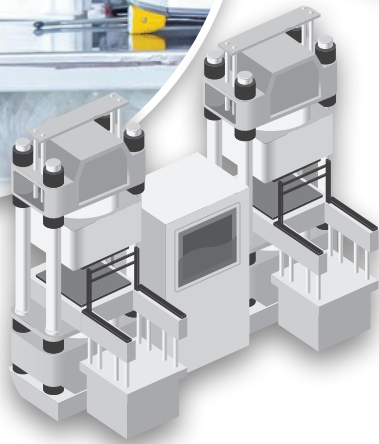
INJECTION MOLDING CAPABILITIES

Prototyping:	1 week (3D printed)
Production Tooling:	6 to 8 weeks (insert stack only)
Max. Diameter:	13 inches (330.2 mm)
Min. Diameter:	.09 inches (2.29 mm)
Max. Length:	5 inches (127 mm)
Min. Length:	.15 inches (3.81 mm)
Max Shot Size:	25 lbs
Min Shot Size:	12 grams
Max. Wall Thickness:	.25+ inches (6.35 mm)
Min. Wall Thickness:	.03 inches (0.76 mm)
Shapes:	Round, tapered, threaded, rectangular, square, various odd shapes
Materials:	Low- or high-density polyethylene, polypropylene, medical grade, static dissipative, thermoplastic rubber, ethylene vinyl acetate, conductive, static dissipative polyethylene, nylon, PC, ABS, PS, TPE/TPV
Tolerances:	Minimum +/- .002 inch (dimension studies can be completed, in relation to part size & material)
Standard Colors:	Red, orange, yellow, green, blue, purple, black, brown, gray, white (custom color matching also available)
Secondary Operations:	Punching, slicing, drilling, printing, assembly, special packaging
Lot Traceability:	Yes
Material Certification:	Yes
Compliance to CGMP:	Yes

Production Capabilities— Rubber Molding

Caplugs delivers comprehensive rubber molding capabilities, combining advanced processes with full in-house material compound mixing and development. This level of control allows us to ensure precision, consistency and performance for every component while delivering solutions quickly and on budget.

- Scalable production with over 75 presses ranging from 50 to 1,200 tons across our state-of-the-art compression, transfer, injection molding and extrusion equipment volumes
- Produce parts with flexibility, resilience and anti-vibration properties



- Custom additives available for heat, UV, chemical and environmental resistance and more
- Secure supply chain with rubber manufacturing facilities in Malaysia and China, each with a Class 8 Cleanroom

RUBBER MOLDING CUSTOM PART PROFILES

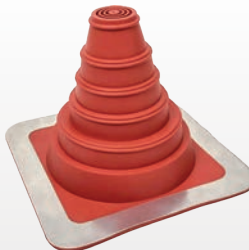
HEAVY EQUIPMENT



Wiring Connector Cover

Built to shield wiring connectors on diesel engines in heavy machinery, delivering reliable protection in demanding environments—available in HNBR.

CONSTRUCTION



Roofing Cap for Stand Pipes

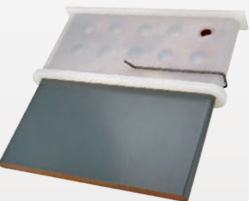
Engineered to create a weathertight seal on stand pipes, protecting against moisture intrusion and environmental exposure—available in Silicone/EPDM.

ELECTRICAL



Silicone Boot Connector Cover

Seals electrical connections from water and debris under the hood, engineered for both automotive and heavy-duty vehicle applications.



Silicone Mask for BusBars

A reusable, precision masking solution built on resilient Ultrabake™ technology, replacing labor-intensive and inconsistent masking methods with repeatable results.

HVAC & THERMAL UNITS



Vibration Dampener

Engineered to absorb sound and vibration, reducing stress and noise transfer across a wide range of applications—available in EPDM/Nitrile.



EDPM Isolators

Mounted along the frame to secure fuel, emergency brake, and electrical lines in place, cushioning against stress-causing vibrations.

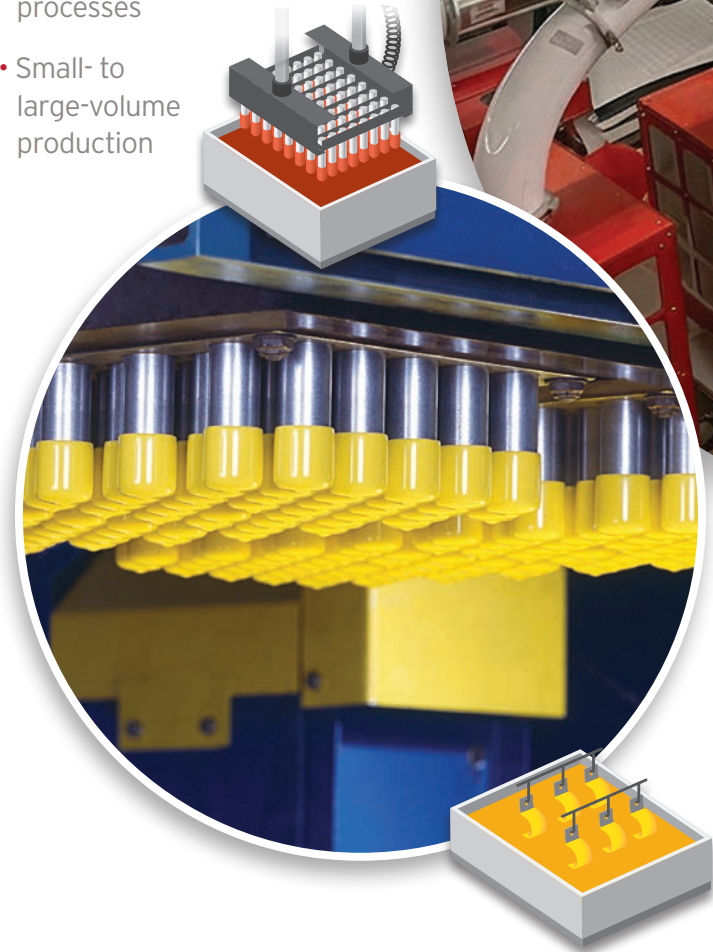
RUBBER MOLDING CAPABILITIES

Prototyping:	1 week (3D printed) 3-4 weeks (soft tool)
Production Tooling:	5 to 6 weeks
Max. Diameter:	ø39.37 inches (1000 mm)
Min. Diameter:	ø.020 inches (ø.50 mm)
Max. Length:	47 inches (1200 mm)
Min. Length:	.040 inches (1 mm)
Max. Wall Thickness:	5.90 inches (150 mm)
Min. Wall Thickness:	.020 inches (.50 mm)
Shapes:	Round, tapered, threaded, rectangular, square, various odd shapes
Materials:	Natural rubber (NR), SBR, NBR, HNBR, EPDM, BUTYL (IR), Neoprene, Nitrile, Silicone, Fluorosilicone, Urethane, Vamac, Viton & BR
Tolerances:	RMA A3 (standard dimensions) RMA A2 (critical dimensions)
Standard Colors:	Black, blue, green, grey, orange, pink, red, white, yellow (custom color matching also available)
Part Finish & Appearance:	Smooth to rough surfaces, per RMA F1, F2, F3 & F4 callouts
Flash Allowance:	T0.003 to T0.063, per RMA standards
Secondary Operations:	Punching, slicing, drilling, printing, assembly, special packaging
Lot Traceability:	Yes
Material Certification:	Yes
Material Test Report:	Yes

Production Capabilities— Vinyl Dip Molding & Vinyl Coating

Vinyl dip molding is a versatile manufacturing process ideal for producing flexible protective components with excellent grip, insulation and aesthetic qualities. This process can deliver broad design flexibility and countless variations from a single tool, reducing extra costs.

- 25+ vinyl dip molding machines
- Internal tool room for quicker turnaround and cost savings
- Vinyl racking machine with 12 dip tanks
- State-of-the-art automated processes
- Small- to large-volume production



Vinyl Coating for metal and heat-resistant products provides a permanent layer that will not slip, rip or tear off. Ship us your parts, and we'll return them to you with a durable vinyl coat.

- Wide range of material performance additives
- Hundreds of colors and finishing options
- Protective and ergonomic benefits

CUSTOM VINYL PART PROFILES

AUTOMOTIVE



Steering/Suspension Vinyl Cap
Engineered to shield brake line fluid fittings from debris and moisture, providing secure, reliable protection throughout shipping, handling and storage.

ELECTRICAL



Electrical Connector Cover
Dip-molded vinyl cap precisely matched to the connector housing for a snug fit, protecting pins from damage and keeping components free of dust, dirt and debris during transit and storage—reusable.

VINYL COVERINGS



Gas Pump Handle Cover
Custom-fit protective cover engineered to match existing handle specifications, shielding from the underlying material—pad printing available for logo branding.

EV BATTERY



Cooling System Covers
Engineered to protect Electric Vehicle battery cooling system inlets and outlets from foreign debris and dust, delivering reliable contamination protection for next-generation powertrains.

METAL COMPONENTS



Vinyl Dip-Molded Handle Grip
Dip-molded vinyl coating applied over metal components, providing a comfortable, protective grip surface while shielding against wear, moisture and corrosion—available in a range of colors.

Textured Vinyl Dip-Molded Handle Grip
Dip-molded vinyl coating with an added texture surface for enhanced grip and confident handling of metal components, protecting against wear and moisture.

CUSTOM VINYL DIP MOLDING CAPABILITIES

Prototyping:	1 week (existing tooling) 2 weeks (custom stake)
Production Tooling:	3 to 4 weeks
Max. Diameter:	27 inches (686 mm)
Min. Diameter:	.054 inches (1.372 mm)
Max. Length:	21 inches (533 mm)
Min. Length:	.187 inches (4.750 mm)
Max. Wall Thickness:	.130 inches (3.302 mm)
Min. Wall Thickness:	.030 inches (0.762 mm)
Shapes:	Round, oval, flanged, boots, rectangle, square, various odd shapes, multi-dip, bellows
Materials:	Vinyl, foam, matte, translucents, neons, phosphorescent, rigid, soft, elastic, high temperature, medical grade, static dissipative and non-copper staining
Tolerances:	+/- .010 wall thickness +/- .010 minimum, +/- .060 dip line
Colors:	Red, orange, yellow, green, blue, purple, black, brown, gray, white (custom color matching also available)
Secondary Operations:	Punching, slitting, slicing, printing, cut to length (2 open ends)
Lot Traceability:	Yes
Material Certification:	Yes
Compliance to CGMP:	Yes

Production Capabilities— Extrusion Molding

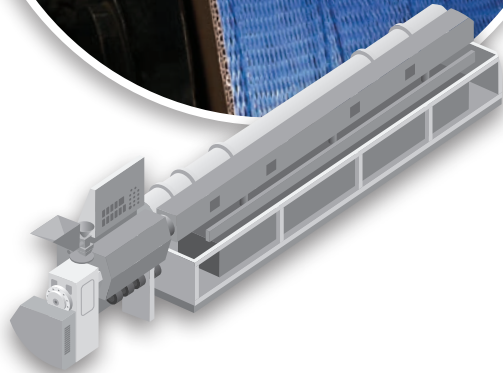
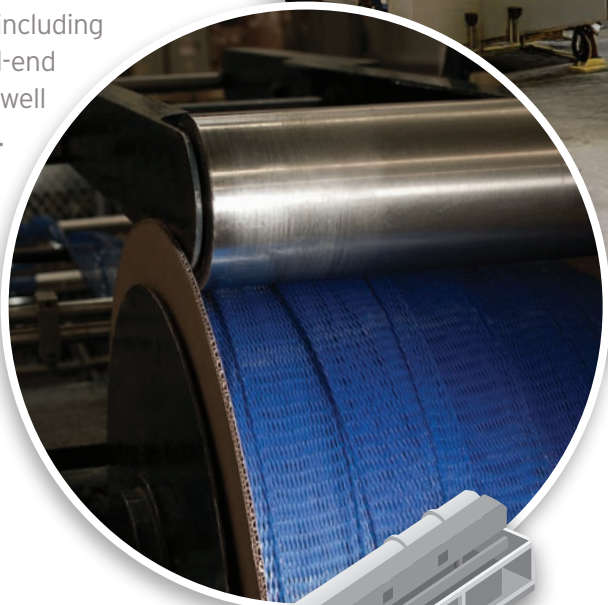
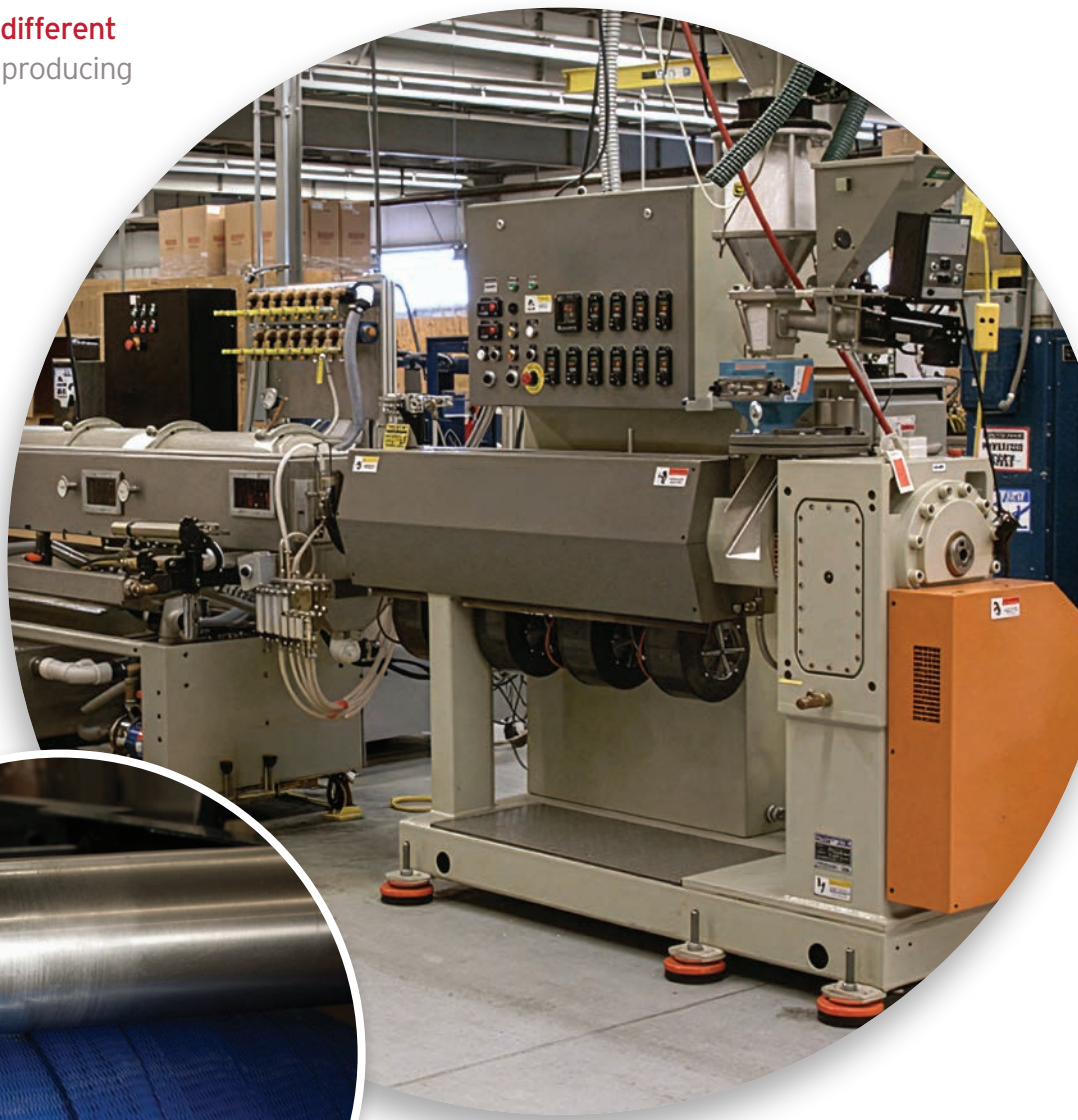
Caplugs has expertise across **four different plastic extrusion processes**, each producing a unique set of products:

Hose Protection

Caplugs high-quality spiral wrap hose protection includes extrusion lines for both right- and left-cut product options, plus variations with special performance characteristics. Our proprietary extrusion methods ensure consistency, accuracy and scalability.

Tubing

Ideal for packaging, shipping and transport, Caplugs plastic tubing is made in a wide variety of diameters and lengths. It is manufactured in three different styles of tubing, including open- and closed-end round tubing, as well as square tubing.



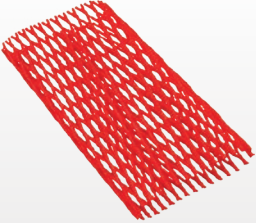
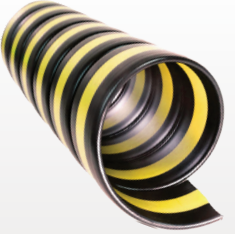
Netting

Caplugs Sleeve-Web® netting protects smooth, threaded, cylindrical and nesting parts. Due to its flexibility, it is also ideal for wrapping around irregularly shaped products and parts. Available pre-cut or in custom lengths.

Edge Liners

Protecting sharp sheet metal edges, pipe ends and PC boards in standard and custom sizes—including conductive options for circuit board and subassembly protection.

CUSTOM EXTRUSION PRODUCT PROFILES

NETTING	 Caplugs Sleeve-Web Available in cylindrical sleeves or flat sheets in light, standard and heavy-duty strengths, pre-cut or custom lengths.
TUBING	 Square Tubing Durable, clear tubing available in a variety of sizes, wall thicknesses and colors—open or closed ends, round or square.
EDGE LINERS	 For Sheet Metal & Pipe Ends Our edge liners offer protection from sharp edges and openings in sheet metal—made from standard or conductive materials.
HOSE PROTECTION	 Hose Guard & Spiral Wrap Wraps and shields critical hydraulic and pneumatic hoses and connections against damage in even the harshest working conditions.
	

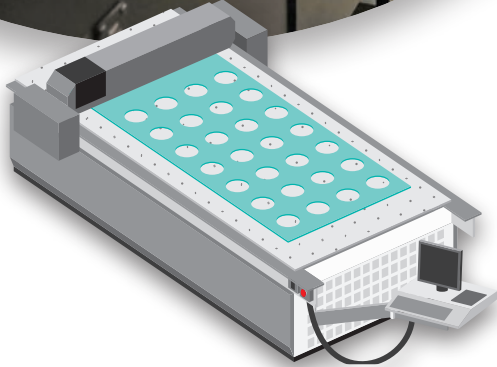
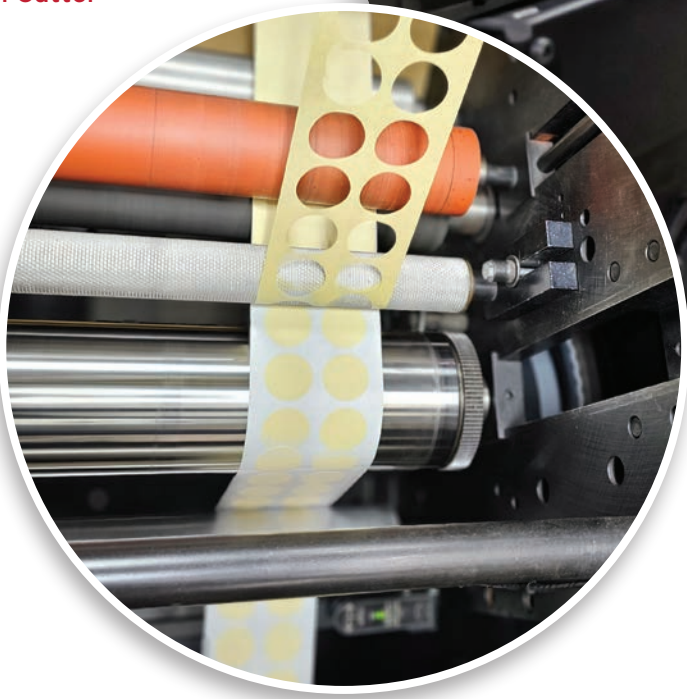
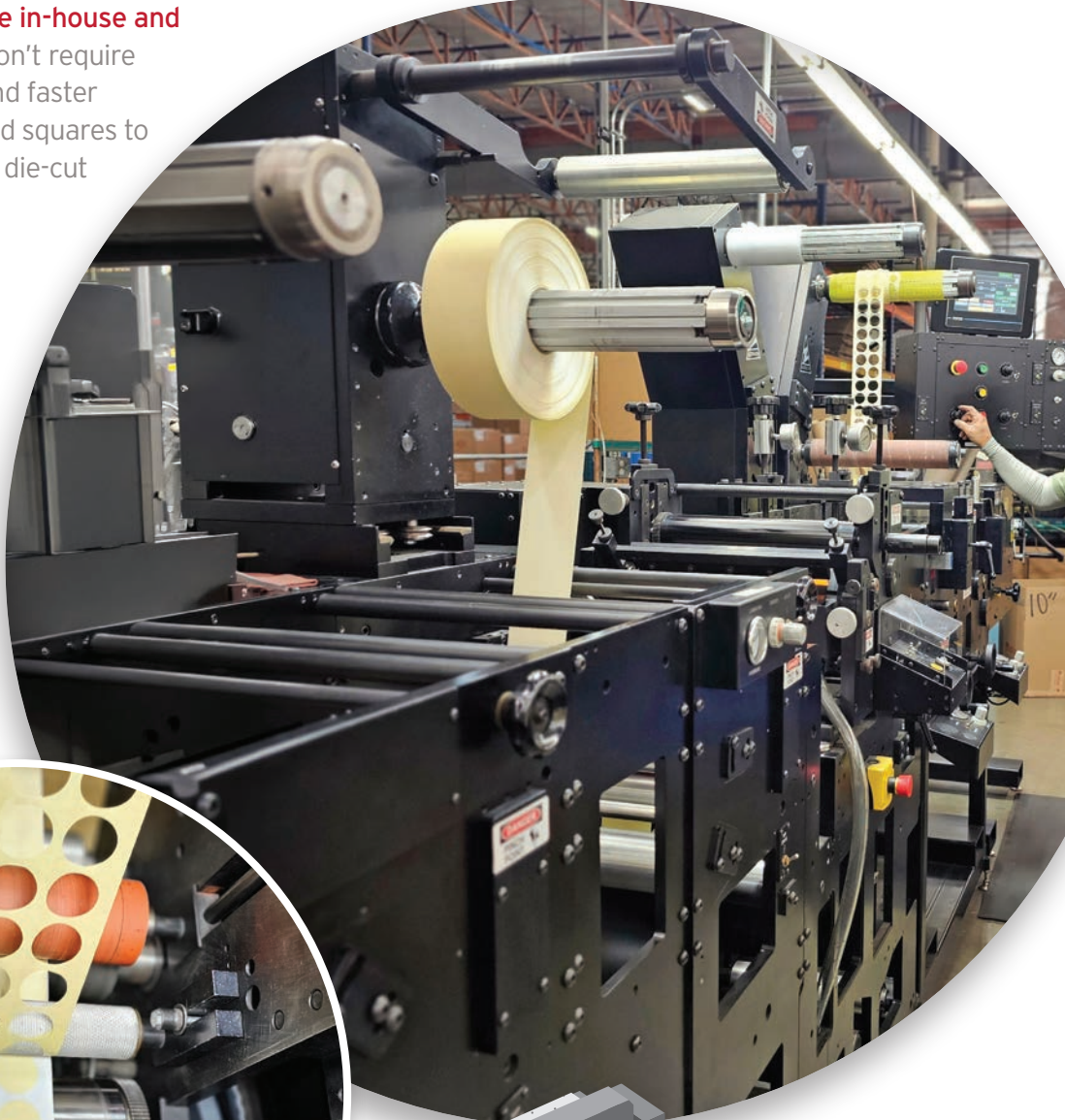
CUSTOM EXTRUSION CAPABILITIES

Prototyping:	2 weeks (existing tooling)
Production Tooling:	8 weeks (custom tooling)
.....	
TUBING:	
Max. Diameter:	4 inches (101.6 mm)
Min. Diameter:	.250 inches (6.35 mm)
Max. Wall Thickness:	Material Dependent— PETG/PVC -.060", PE/PP -.120"
Min. Wall Thickness:	.010 inches (.254 mm)
Tolerances:	+/- .003" wall thickness +/- .010" ID, +/- .062" length
Shapes:	Round, oval, rectangle, square, symmetrical
.....	
NETTING:	
Max. Thickness:	.135 inches (3.43 mm)
Min. Thickness:	.050 inches (1.27 mm)
Max. Width:	14.0 inches (355.60 mm)
Min. Width:	.400 inches (10.16 mm)
Tolerances:	+/- .010" mesh thickness +/- .125" ID, +/- .062"/ft. length
.....	
Materials:	PE, PETG, CAP, PP, PVC
Colors:	Red, orange, yellow, green, blue, purple, black, brown, gray, white, clear (custom color matching also available)
Secondary Operations:	Assembly, cutting, printing, welding
Lot Traceability:	Yes
Material Certification:	Yes
Compliance to CGMP:	Yes

Production Capabilities— Die-cutting

Our die-cutting processes are **done in-house and are fully customizable**. Die-cuts don't require tooling, allowing for lower costs and faster production. From simple circles and squares to more complex designs, we are the die-cut experts to call on.

- Prototypes in 24 hours
- Variety of standard substrates and performance options
- Capacity for full in-house custom converting
- Five in-house die-cutting processes:
 - Plotter
 - Steel rule die-press
 - Rotary die-cutter
 - Magnetic plate die-cutting
 - Flash Cutter



CUSTOM DIE-CUTTING PRODUCT PROFILES

ELECTRONICS	 Bezel Mask Precision masking tape solution for plating and finishing processes—recommended for powder coating, e-coating and anodizing, withstanding temperatures up to 400°F with no adhesive residue. 3 mil polyester.
ELECTRONICS	 Circuit Board Mask Kit High-temperature, pressure-sensitive crepe paper tape conforms to curved surfaces and strips clean—hot or wet—delivering a sharp masking line with no residue up to 300°F. Available in crepe paper.
MEDICAL	 Surgical Equipment Mask The industry standard for powder coating, protecting critical areas during e-coating and anodizing with a clean, residue-free removal up to 400°F—2 mil polyester with 1.5 mil silicone adhesive.
PIPE VALVE FLANGE	 ANSI Flange Cover Securely covers and protects the full face and sealing surfaces of ANSI B-16.5 and B-16.47 flanges, compatible with additional plugs or cable ties through bolt holes. High-density polyethylene.

CUSTOM DIE-CUTTING CAPABILITIES

Applications:	Sand blast mask, masking ridged sheet, protection, stencils
Prototyping:	24 hours–3 days
Production Tooling:	2–4 weeks (process specific)
Max. Size:	60" x 120"
Max. Thickness:	0.120 inches (3.048 mm)
Min. Thickness:	0.06 inches (1.524 mm)
Shapes:	Any shape that falls within standard sheet size
Materials:	PE, PP, TPE, magnetic, self-adhesive
Colors:	Red, orange, yellow, green, blue, purple, black, brown, gray, silver, white (custom color matching also available)
Secondary Operations:	Kits, perforated liner, slit-back liner, carrier tape
Lot Traceability:	Yes
Material Certification:	Yes
Compliance to CGMP:	Yes

How to Customize

- Provide a file: SolidWorks, CAD, .jpg or .pdf
- Standard and custom materials available, including adhesive and magnetic backing
- Custom prototypes in 24 hours (subject to quantity and sizes)



Cleanroom Manufacturing for Critical Applications

Caplugs features ISO Class 8 cleanroom molding and assembly capabilities to reduce contamination risk and protect sensitive components. This provides an added layer of manufacturing control for more consistent production conditions and repeatable results.



Comprehensive Component Approval Process

- IQ, OQ and PQ validation expertise with comprehensive documentation support
- Dedicated project oversight from initial protocol approval through final report completion



Caplugs' state-of-the-art processes help ensure the superior, consistent quality products that our customers deserve.

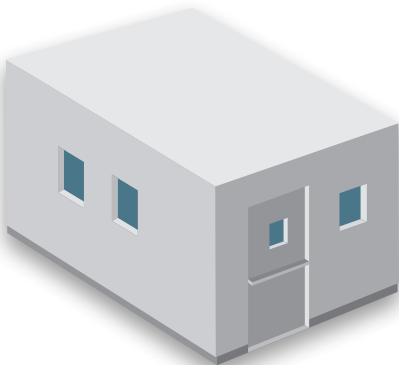


Controlled manufacturing across multiple facilities

CERTIFIED
ISOCLASS8
CLEANROOM

Class 8 cleanroom dedicated to rubber molding

- 8,600 square feet
- 12 compression and 4 injection presses
- Entire process can be performed in cleanroom, including material compounding, part molding and packaging



Class 8 injection molding cleanroom with additional ISO 13485:2016 certification

- 7,800 square feet
- 15 injection molding machines from 44- to 160-ton press
- Pneumatic material feed into cleanroom
- Three Vision systems:
 - Standalone inspection
 - Two integrated inline inspection systems
- Multiple automation capabilities: pick and place robots, end-of-arm tooling and custom bagging
- Uses Scientific Molding to prove processing parameters, ensuring material performance meets your unique environment and specifications
- Specialty packaging available upon request (bagging, pouching, etc.)



Plus, we offer:

- Portable cleanrooms available for agile clean manufacturing
- White room molding with quality checks every two hours for dimensional specification verifications

Comprehensive Quality Management Systems & Certifications

Caplugs maintains the necessary ISO-certified process controls and documentation to provide consistent quality products that meet your precise specifications.

- Formal internal auditing process
- Six Sigma initiatives
- Dimensional report
- Calibration



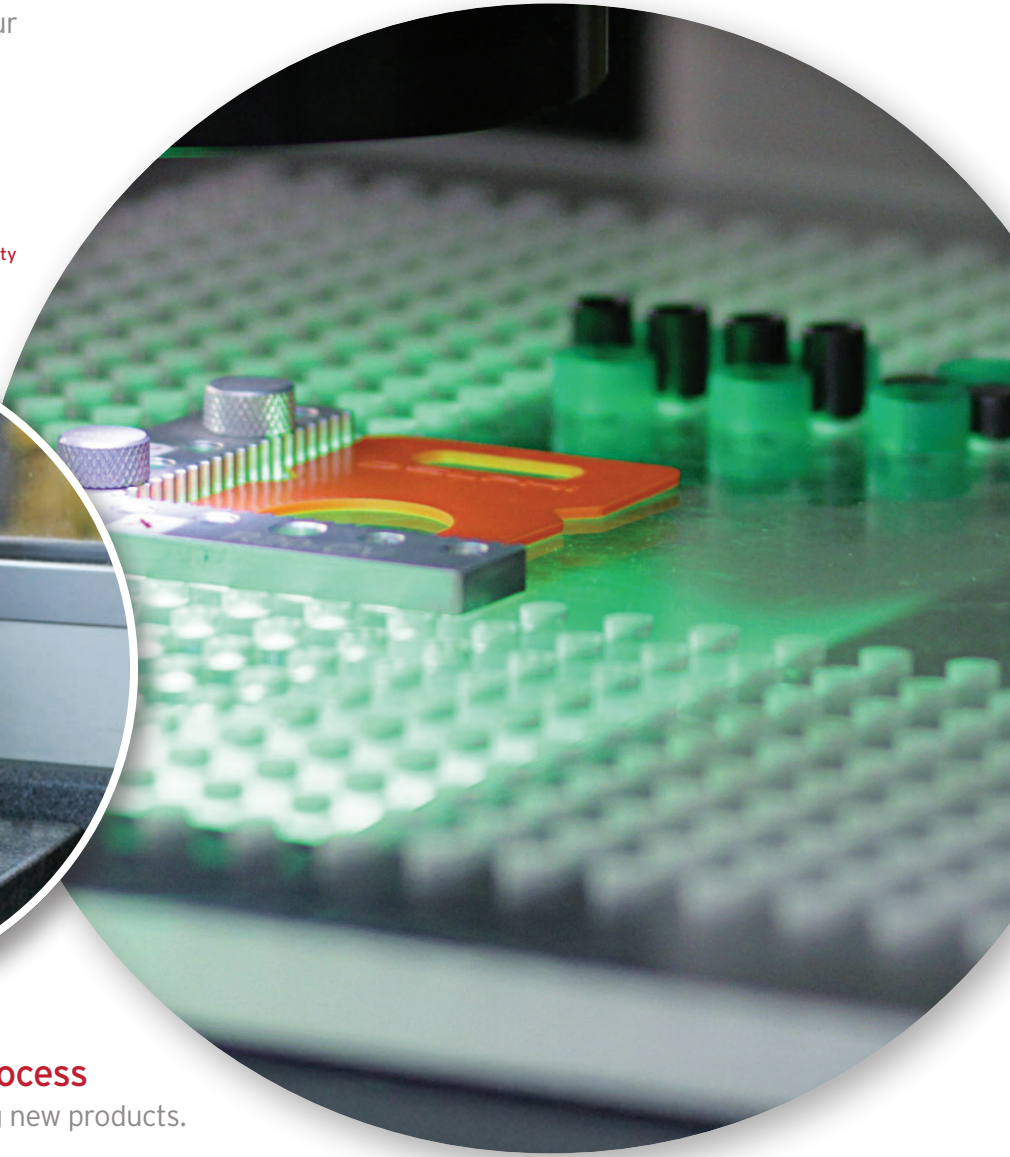
Visit caplugs.com/quality for full details on quality certifications.



Stringent Processes & Advanced Technology

Superior and consistent product quality through:

- Beta LaserMike
- CNC RAM Optical Vision
- CMM
- Mark-10 Digital Force Fixture
- Vision Systems



APQP Product Development Process

Ensures minimal energy when developing new products. Key aspects include:

- Failure Mode and Effects Analysis (FMEA)
- Measurement Systems Analysis (MSA)—Gage R&R/Calibration
- Risk Assessment
- Statistical Process Control (SPC)
- Production Part Approval Process (PPAP)—
- Scientific Molding
- Process Validation—IQ, OQ, PQ



A key component of our quality system, specifically designed for your application to ensure accuracy, consistency, repeatability and record retention.

World-class Global Service & Support



We Put a Team of Experts in Your Corner. Caplugs provides more than just parts to our customers. We are the industry's most experienced team of molding experts, working with you as a responsive and collaborative partner to proactively provide solutions.



My CapXpress™

Register at caplugs.com to check your account >>

- View full history of samples, quotes & orders
- Print packing slips & invoices
- Order online by account,* credit card or upload a PO

*To set up terms for your account, simply use our convenient web chat or contact customer service at **1.888.CAPLUGS**.

GLOBAL MANUFACTURING

Caplugs is the leader in product protection, masking solutions, hose protection and custom molded components. With 13 manufacturing facilities and a large team of in-field account managers across the globe, we provide the personalized service, range of capabilities, manufacturing expertise and scalable infrastructure to be your trusted partner.

