



MANUFACTURING LOCATION: PHILLIPS MEDISIZE | QUERETARO, MEXICO | PHILLIPS, WISCONSIN

FREQUENTLY ASKED QUESTIONS: WHAT IS PLASTIC INJECTION MOLDING?

This process injects melted plastic into a mold to make parts. After the plastic cools and hardens, the part is removed. Plastic injection molding is a common way to produce many plastic items quickly and efficiently.

Why Plastic Injection Molding?

- Efficiency in production
- Consistency and precision
- Material variety
- Complex geometries
- Cost-effectiveness
- Low waste
- Strength and durability

What Are Some of the Phillips Medisize Plastic Injection Molding Capabilities?

Plastic injection molding: Single and multi-shot	Insert/overmolding	Electronic integration and manufacturing
In mold labeling (IML)	Liquid silicone rubber (LSR) molding	Decoration: Pad printing, laser marking/etching, functional coatings
In-mold decoration (IMD)	Pad printing	Packaging

What Are the Philips Medisize Capabilities?

Press Tonnage Queretero, MX	25 T to 1,300 T
Press Tonnage Phillips, WI	40 T to 940 T
Materials	Broad range of thermoplastics from general purpose to engineering grades, including polystyrene, polypropylene, ABS, acrylic, polycarbonate, acetal, nylons, thermoplastic elastomers (TPE/TPU/TPV), PVC, PEEK, PPA, PPS and PEI
Finishes	<ul style="list-style-type: none"> • Several finish options available from high gloss to graining and custom texture patterns • Plated plastic/selective plating
Quality Management Services	<ul style="list-style-type: none"> • Metrology • Functional testing • Leak and flow testing • Tooling services: 100% tool maintenance and engineering change notices (ECNs)
Volume	25 K to 10 MM EAU
Certifications Queretero, MX	<ul style="list-style-type: none"> • IATF 16949 • ISO 13485 • UL • Clean Industry (PROFEPA) • VDA 6.3 compliant
Certifications Phillips, WI	<ul style="list-style-type: none"> • IATF 16949 • ITAR

What Are Some Industry Applications?

AUTOMOTIVE

- Interior components: dashboard and door panel components and subassemblies, door handles, user interface components
- Exterior parts: lighting, aerodynamics, bumper and grille components
- Engine components: air intake manifolds, valve covers, filtration (air, oil, fuel)

CONSUMER

- Production of household items: kitchen utensils, appliances, containers
- Creation of electronic casings for devices: remote controls, smartphones, laptops
- Toys and recreational equipment, including parts for games and sports gear

DEFENSE

- Fabrication of durable components and systems for military equipment such as communication devices, firearm components and accessories
- Production of parts for protective gear and equipment
- Components for vehicles and weaponry systems

To learn more about our diverse portfolio and our expertise in materials, injection molding and manufacturing, visit our website at phillipsmedisize.com/non-medical.