



Industrial Modern Pattern & Mold

**Home of the “100 Shot”
Silicone Tool Guarantee!**

Let IMPM Show You the Benefits of Prototyping

Silicone Tooling / Cast Urethane

When it comes to silicone tooling and cast urethane parts, IMPM is on the forefront. Over the past 45 years we have completely mastered the silicone tooling process, ***guaranteeing 100 cycles out of all silicone tools built by our skilled team!*** We continue to make advances in the Prototyping Industry. Our latest cutting edge equipment includes a 113 cu ft pressure chamber for large parts, a simulated roto molding procedure that is a special process for hollow parts, and specialized, automated dispensing machines that allow us to do large parts with higher throughput. In addition, we have multiple vacuum pressure chambers for standard parts. IMPM's master pattern and silicone tool cost is typically less than the cost of three SLA printed parts. Threaded inserts are molded in, not added as a secondary process, so parts look, feel and perform like production parts.

IMPM offers over 140 urethanes to mimic production materials - ranging from 10A shore to 85D shore. We can color match most of our urethanes to almost any color. Along with color matching, we can provide a variety of textures. Call us today to request a urethane guide sheet and sample key ring.

Stereolithography (SLA) / 3D Printing

IMPM is using the newest SLA technology on the market. We are currently running two different machines, the Uniontech RS Pro 800 and the ProJet 7000®. The ProJet 7000 has a 15"x15"x10" build platform capacity. This machine also has the option to build in High Definition to produce extra fine detail. The Uniontech RS Pro 800 has a 31"x31"x21" build platform capacity for larger models. Both machines print in .004" resolution, providing you with the highest quality parts.

The ProJet 7000 uses VisiJet® SL Clearvue resin for a stiff, durable, polycarbonate-like look and feel with a crystal-clear appearance that is ideal for "see-thru" applications. The Uniontech RS Pro 800 uses Somos® EvoLve 128, a durable stereolithography material that produces accurate, high-detailed parts and has been designed for easy finishing. It has a look and feel that is almost indistinguishable from finished traditional thermoplastics, making it perfect for building parts and prototypes for functional testing applications – resulting in time, money and material savings during product development. Somos® EvoLve 128 is an outstanding material for industries such as aerospace, automotive, medical, consumer products and electronics.

SLA model finishing options include custom paint. We can match paint to a Pantone® color or any sample you provide us. The possibilities are endless! Call to further discuss your options.

Injection Molding

IMPM continues to make major advancements to our injection molding capabilities. Our equipment arsenal features five presses, ranging from 40 to 450 tons. A bridge-style gantry allows us to load and unload large tools. A new chiller system helps maintain better temperature control. We are capable of tool sampling and large volume production runs in addition to lower volume production. Aluminum core and cavity molds utilize steel mold bases which save costs and reduce machining time over steel tooling. Our shop is setup for quick turn-around and quick deliveries. This only touches on our capabilities, please call to see if we are the right fit for your next project.

Aluminum and P-20 Tooling

IMPM has in-house capabilities to produce aluminum and P-20 tools. We have a full tool room, including in-house CNC and EDM, to create small rib detail and side actions in any tool construction you choose. Tooling at IMPM allows you to work closely with the owner and the engineering team. This gives you the option of turning your "prototype" tool into a production tool, with some simple planning at the front end of your project. We will make sure you are getting the most for your money on every project. Call to discuss how we can save you thousands on tooling costs.

Assembly Fixtures

IMPM's skilled pattern-makers are able to build fixture patterns from your production parts. This hand-done process may seem outdated compared to modern CNC machining, but CAD systems cannot accurately estimate the tolerances and non-uniform shrink that comes from a "real life" molded part. When an assembly fixture is built from the finished product, the fixture will support 100% of the areas of your choice.

Secondary Operations

As part of our turn-key solution, we offer secondary operations. IMPM has paint booths of various sizes to accommodate any size project. Binks® Spray guns are used for all secondary paint finishes. We also utilize our CNC machine for secondary operations on parts molded here or parts made elsewhere. We are a "job shop" when it comes to our secondary processes. Call to see what we can offer you.



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Call us today to learn
how IMPM's prototyping
experience can benefit
your business!

847.296.4930



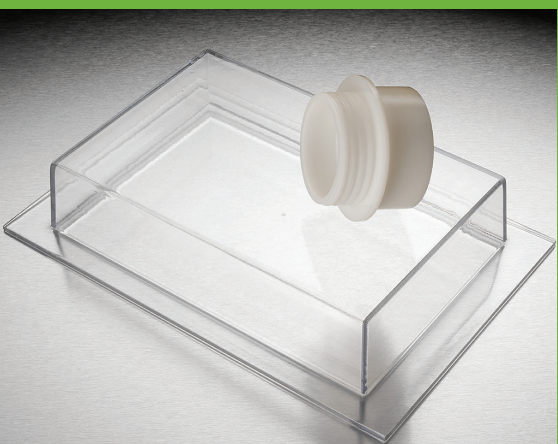
Silicone Tooling / Cast Urethane



Silicone Tooling / Cast Urethane
Large Part



Silicone Tooling / Cast Urethane
Roto Mold



Stereolithography



Injection Molding



Aluminum Tool with Cam Actions



Injection Molding



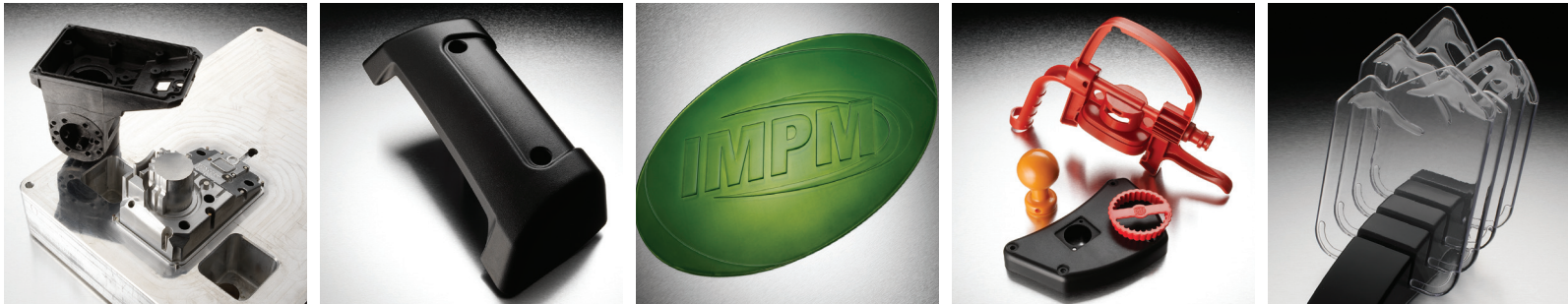
Assembly Fixtures

Advancing the Prototyping Industry Since 1971!

About Industrial Modern Pattern & Mold (IMPM)

For over 49 years, IMPM has been at the forefront of prototyping. From our start as a pattern shop to our evolution as a full service prototyping house, IMPM strives for continuous improvement. Three generations of innovation have made us stand out in the industry. From Louis Sr. starting a pattern shop focused on the highest quality and Louis Jr.'s awareness of an evolving industry, to Jared perfecting the prototyping systems used by shops today, you can be sure that IMPM is guaranteeing our dedication to quality. Everyone at IMPM understands the importance of the detail necessary to uphold the reputation we've earned, and will not fault in maintaining it. From your idea to a finished production part, we are your resource. *Let IMPM set the standard for you.*

- Turnkey Solutions: all phases of production are completed under one roof
- Exemplary Customer Service from inquiry to delivery and beyond
- Experienced, knowledgeable staff with over 100 years combined experience
- Our "think outside the box" mentality continuously strives to provide innovative solutions
- We build to YOUR design and YOUR specifications, not the other way around!
- We have a commitment to quality and on-time performance
- Fast and precise resolutions to action items



Home of the "100 Shot" Silicone Tool Guarantee!

IMPM is your resource for innovative prototyping solutions, with services in:

- Silicone Tooling / Cast Urethane
- Stereolithography
- Injection Molding
- Aluminum and P-20 Tooling
- Assembly Fixtures
- Secondary Operations



Industrial Modern Pattern & Mold

970 Nicholas Blvd.

Elk Grove Village, IL 60007

T: 847.296.4930

F: 847.296.7395

E: Info@IndustrialModern.com

IndustrialModern.com