

TOGETHER,
WE MAKE THE
IMPOSSIBLE





IN ORDER TO MAKE THE IMPOSSIBLE, FIRST WE HAD TO MAKE A DIFFERENCE

By producing specialized components for the medication delivery systems that are integral to today's healthcare industry—such as mobile insulin pumps for diabetes management—Micro Mold, Plastikos and Plastikos Medical help deliver life-changing innovation to those who need it most.

PRECISION MOLD DESIGN AND FABRICATION CAPABILITIES. UNPARALLELED INJECTION MOLDING EXPERTISE.

We started with a vision. To provide smart, value-added manufacturing for even the most rigorous real-world applications. From specialized medical and surgical devices to customized electronic connectors and beyond, we consistently deliver breakthrough plastic components for every part of life. Setting the industry standard for excellence since 1978, we remain true to both our pioneering nature—and our core values. We are a second-generation family-owned business dedicated to serving our customers and employees through continuous improvement and reinvestment into our people and technology. We remain 100% debt free ensuring we can rapidly adjust to market fluctuations as well as our client expectations.

ENSURING A HIGHER STANDARD.

Rooted in precision moldmaking and driven by unparalleled tooling expertise, nothing defines Micro Mold and Plastikos more than our people. With more RJG Master Molders and degreed Plastic Engineers than any other manufacturer our size—and a vast majority of larger resources as well—you'll find a tight-knit, technologically advanced workplace that's brimming with talented, motivated individuals. Committed to innovation, we bring together experts from various disciplines to deliver exceptional products, service and value on every project. It's a mindset that extends throughout our entire organization and influences our approach as we cultivate future strategic partnerships.

CRAIG H.
AUTOMATION ENGINEER
TEAM MEMBER SINCE 2010



100,000+
COMBINED FACILITY
SQUARE FOOTAGE

OVER 99%
ON-TIME DELIVERY

ISO 13485
CERTIFIED

ISO 7 & 8
CLEANROOMS

INDUSTRY 4.0
LEADERS

ALL PRODUCTS PROUDLY
MADE IN USA



LEADING TECHNOLOGY,
EXTRAORDINARY EXPERTISE.

MANSINGH M.
LEAD INSPECTOR
TEAM MEMBER SINCE 2010

SYLVIA W.
QUALITY AUDITOR
TEAM MEMBER SINCE 1994



WORLD-CLASS EXPERIENCE, UNRIVALED PASSION.

In-house mold design & fabrication with over 400 collective years of precision moldmaking experience are utilized to deliver the highest quality injection molds.

Degreed Plastics Engineering professionals provide maximum possible support through the life of our clients' most challenging programs.

Process Engineers are trained at Multiple RJG Master Molder Levels through their rigorous standards. Also, all injection molding machines are eDART equipped and are outfitted with 3 axis robotics as well mold-protect vision systems.







Experienced Quality Engineering staff is trained on the latest IQ/OQ/PQ mold validation protocols, combined with the latest CT Scanning, CMM, & Vision inspection equipment.

Dedicated automation engineering staff is continually exploring new technologies and ways to further efficiency in existing automation support equipment.

Multiple manufacturing sites reduce client risk, especially for patient-critical applications. Also, standardized molding machines & Industry 4.0 strategies are implemented plant-wide to provide enhanced data sharing and traceability.

WHEN OUR CUSTOMERS GO TO MARKET, A LITTLE PART OF US GOES WITH THEM.

For us, success isn't simply measured in dollars and cents. It's the satisfaction of knowing that we help our customers deliver revolutionary products—and that their end users benefit greatly from our involvement. With a focused strategy on manufacturing components that positively affect quality of life, our key niche markets include—but are not limited to—the following:

-  MEDICATION DELIVERY SYSTEMS
-  SURGICAL EYE CARE
-  MICRO FLUIDIC & GAS INSTRUMENTS
-  DIGESTIVE HEALTH
-  ENDOSCOPIC DEVICES
-  TESTING & DIAGNOSTICS



GITA S.
QUALITY OPERATOR
TEAM MEMBER SINCE 2021



ACCOUNT SPOTLIGHT

ACCOUNT



EYE CARE

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THE INITIAL CHALLENGE

A global leader in surgical and vision care products was searching for a molding partner that could deliver the intricacy and attention to detail their new surgical eye care device required. The molding partner needed to have experience with specialty and engineering grade resins, expertise in developing complex, multi-cavity tooling as well as in-house tooling support with the ability to quickly react to changes during the development phase of their new device.

STRATEGIC SUPPLIER PERFORMANCE

- 100% YEAR-OVER-YEAR ON-TIME DELIVERY PERFORMANCE
- ZERO YEAR-OVER-YEAR EXTERNAL REJECT RATING
- TENS-OF-MILLIONS OF PRODUCT SHIPPED ANNUALLY

Given the complexity of the device and a critical tolerance of less than 0.001” on the fragile core pin in some applications, the customer was not certain that meeting such strict performance qualifications was even attainable.

In response, our expert team delivered a multi-cavity tool to the customer’s exact specifications—providing a quick return on investment less than six months removed from machined to molded component. This collaborative team effort laid the foundation for our growing strategic partnership with multiple manufacturing facilities throughout the United States.

CUSTOMER RESPONSE

“OVERALL, PLASTIKOS WAS AN INCREDIBLE FIND FOR US. THERE’S HIGH COMFORT WHEN SELECTING PLASTIKOS FOR A NEW PROJECT AS WE KNOW IT WILL BE DONE ON TIME, DONE CORRECTLY, AND WITH HIGH QUALITY.”

—Teresa S. Purchasing Manager



ACCOUNT SPOTLIGHT



MEDICATION DELIVERY



THE INITIAL CHALLENGE

To satisfy the demand of patients with T1 Diabetes, a high-tech medical device company began development of an easy-to-use miniature insulin delivery pump that functions much like a smartphone. The innovative pump needed to deliver a slow, continuous supply of basal insulin to control blood glucose levels at a rate as low as 1 microliter/hour. Additionally the pump needed to deliver a quick bolus dose of insulin during meals or when the patient’s blood glucose levels are elevated—with doses as low as 0.1 microliters.

The stringent performance qualifications of the miniature device would push the engineering and manufacturing limits of the customer as well as their entire supply chain. The molding partner selected needed to meet the following criteria:

- ▶ Dedicated engineering staff to help troubleshoot during the initial design phase of the pre-production launch
- ▶ Extensive quality engineering capabilities to meet their rigorous (IQ/OQ/PQ) qualification and documentation requirements
- ▶ Experience with fluid handling and other drug delivery related devices
- ▶ Proficiency with manufacturing micro molded components given that some product features were as small as 0.010” with less than a 0.001” tolerance in multi-cavity tooling ranging up to 32 cavities

STRATEGIC SUPPLIER PERFORMANCE

100% YEAR-OVER-YEAR ON-TIME DELIVERY PERFORMANCE

100% PRODUCT TRACEABILITY THROUGH CAVITY-PRESSURE MONITORING

ZERO YEAR-OVER-YEAR EXTERNAL REJECT RATING

TENS-OF-MILLIONS OF PLASTIC COMPONENTS SHIPPED ANNUALLY

LARGEST GLOBAL INJECTION MOLDING SUPPLIER

CUSTOMER RESPONSE

“ EXCELLENT CUSTOMER SERVICE. EXACTLY WHAT I EXPECT IN A BUSINESS PARTNERSHIP. THEY (MICRO MOLD AND PLASTIKOS) ALLOWED US TO MEET SOME VERY CHALLENGING DIMENSIONS IN MULTI-CAVITY TOOLING. I AM NOT SURE WE COULD HAVE ACCOMPLISHED THIS WITH ANY OTHER SUPPLIER. ”

—Jim L. Vice President of Operations



ACCOUNT SPOTLIGHT

ACCOUNT



DIGESTIVE
HEALTH

3

THE INITIAL CHALLENGE

A globally recognized medical technology OEM that specializes in digestive health, surgical solutions, pain management and IV therapy approached Plastikos to run production on several product lines. Our customer was having ongoing quality/support issues with the incumbent molder. This provided us with the opportunity to quote a project for eighteen (18) injection molds with cavitation ranging from 4 to 8 cavities.

The initial intention was to have the molds built at several different tooling facilities and ultimately have the products manufactured exclusively at Plastikos. Once produced, the individual parts would be applied to Pain Medication Delivery Systems which are designed with the capability to deliver medicine instantaneously as well as consistently over an extended period of time.

Each mold was validated through a rigorous IQ/OQ/PQ process that we customized for our customer's specific needs. Additionally, our project management team worked closely with our customer to exceed an aggressive validation schedule to meet their product transferral date from the incumbent molder.

Thanks to the dedication and quick turnaround from our engineering and quality staff, the initial product launch was so successful that Plastikos was subsequently awarded 10 additional molds later in the year to support the customer's enteral feeding line of products.

STRATEGIC SUPPLIER PERFORMANCE

OVER 99% YEAR-OVER-YEAR ON-TIME DELIVERY PERFORMANCE

MILLIONS OF PLASTIC COMPONENTS SHIPPED ANNUALLY

ONE OF THE LARGEST EXTERNAL PLASTICS PROCESSORS FOR OUR CUSTOMER

CUSTOMER RESPONSE

“ PLASTIKOS RATES AS A TOP SUPPLIER FOR INJECTION MOLDED PARTS. THE ABILITY TO SAMPLE, VALIDATE, COME UP WITH ENGINEERING SOLUTIONS, MAKE IN HOUSE MODIFICATIONS AS NEEDED, AND PERFORM METROLOGY ALL IN-HOUSE ARE SOME OF THE KEY REASONS THAT WE WILL CONTINUE TO AWARD THEM NEW BUSINESS GOING FORWARD. ”

- Heath J. Principal Process Engineer

LET'S MAKE THE IMPOSSIBLE TOGETHER.

Micro Mold, Plastikos and Plastikos Medical are award-winning plastics companies with one shared mission—solving your most difficult moldmaking and injection molding challenges. Turn to us today for proven engineering and materials expertise, precision tooling, tight-tolerance molding and a fierce commitment to your success. No matter the challenge, we **Make the Impossible**.

MICRO MOLD, PLASTIKOS AND PLASTIKOS MEDICAL ARE HEADQUARTERED IN ERIE, PA. WE ARE CONVENIENTLY LOCATED NEAR BOTH I-90 AND I-79, AND WITHIN A TWO-HOUR DRIVE OF CLEVELAND, PITTSBURGH AND BUFFALO.

WE WELCOME YOU TO VISIT OUR FACILITIES AND WE LOOK FORWARD TO HEARING FROM YOU.



**TOGETHER, WE MAKE
THE IMPOSSIBLE**

PLASTIKOS **MEDICAL**

BEST-IN-CLASS MEDICAL
INJECTION MOLDING

PLASTIKOS

ADVANCED INJECTION
MOLDING

MICRO **MOLD**

PRECISION
MOLDMAKING

PLASTIKOS MEDICAL

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