Custom Medical Device and Component Technology

Explore the possibilities with Helix Medical, your medical technology specialist.

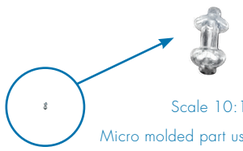
HELIX™
MEDICAL
Your Medical Technology Specialist

Let Helix Medical be your partner in the development of your unique products.

Custom formed extrusion, skiving with overmold.

- Custom molding including LIM, compression/transfer, insert, thermoplastic, and two-shot molding.
- Custom silicone extrusions.
- Assembly, packaging and sterilization.
- Extensive array of medical grade/implant grade silicones and thermoplastics.
- Rapid prototyping – thermoplastic.
- Patented cold runner technology.
- FDA-registerd medical device facility, certified to ISO 13485 standards.
- Manufacturing environments controlled and monitored in accordance with ISO 14644 Class 7 and 8.

ABOVE: Thermoplastic molding, silicone insert molding, multichannel extrusion, pad printing, and final assembly. BELOW: Silicone overmolding of preloaded core for drug delivery.



Scale 10:1

Micro molded part used in ophthalmology.
Actual size:
1.092 mm long / 0.596 mm tip / 0.635 mm cap

Since 1984, Helix Medical has been a leader in the extrusion and molding of platinum-cured silicone and thermoplastic products for the medical device, health care, pharmaceutical and biotech industries. Headquartered in Carpinteria, CA, Helix Medical operates an FDA-registered medical device facility, certified to ISO 13485 with global operations in North America and Asia.

Our quality goal is to deliver products that meet our customer's design, specifications, and criteria — economically, on time, every time. We are committed to providing exceptional service. Coming up with new solutions to meet even the most difficult design challenges is one of our core competencies. Our 24 years of experience ensures that your products are manufactured to the highest standards following GMPs in accordance with Quality System Regulations.

Whether your specialty area or expertise is engineering, purchasing, or quality/regulatory, you will benefit from doing business with Helix Medical.

Call us today to discuss your current needs or upcoming projects and experience our commitment.

THERAPEUTIC MARKET SEGMENTS

Cardiovascular Surgery
General Surgery
Neurosurgery
Bariatric Surgery
Plastic/Reconstructive Surgery
Microvascular Surgery
Anesthesiology
Cardiology
Gastroenterology
Nephrology
Oncology
Ophthalmology
Urology
Endoscopy
Orthopedics
Pain Management
Wound Management
ENT
IVD
OB/GYN

SILICONE MOLDING

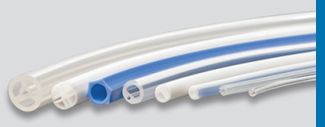
For insert, two-shot and overmolding, our partnership with expert mold makers allows for custom shaped parts (HCR or LSR) to be innovatively manufactured with statistically proven, precise dimensions, improving your parts functionality.

THERMOPLASTIC MOLDING

Let us share our engineering expertise and state-of-the-art rapid prototyping and multi-cavity tool design technology to realize your intricate, high-volume thermoplastic product designs.

EXTRUSION

We offer single to multi-lumen tubing with varying profiles, stripes, radiopacity, inserts and reinforcement, with in-process inspection and minimal material waste.



ASSEMBLIES

Engineered process flow designs allow for quality and efficient building, printing, inspection and packaging of multi-subcomponents to produce value-added finished parts and goods.

CAPABILITIES

MOLDING
Silicone (LIM)
Thermoplastic Injection
Multi Component (Two-shot)
Transfer/Compression
Insert Molding
Over Molding
Micro Molding

EXTRUSION
Close Tolerance
Peristaltic Pump
Single Lumen
Multi-lumen
Co-extrusion
Radiopaque
Profiles
Cut to Length
Pad Printing
Proprietary Striping

AUTOMATION
24/7 Lights-out Production
Automated Raw Material Flow

ASSEMBLIES
Insert Molding
Bonding / Gluing
Reinforcing
Pad Printing
Skiving

PACKAGING
Tyvek Pouch
Form/Fill/Seal
Lot Sterilization Labeling
Label Creation/Artwork

STERILIZATION (outsourced)
Et.O
Gamma Radiation

VALUE ADD SERVICES
Trimming
Punching
Parylene Coating
Tool Manufacturing
Mold Trials
Validation and Qualification
Measurement System Analysis (MSA)
Lean Manufacturing/Six Sigma Culture
SolidWorks Modeling and CAD
Launch/Project Management