

Collaborative Innovation: Practical Ways to Bring Products to Market Faster

Letting go of limitations: The power of multiple capabilities

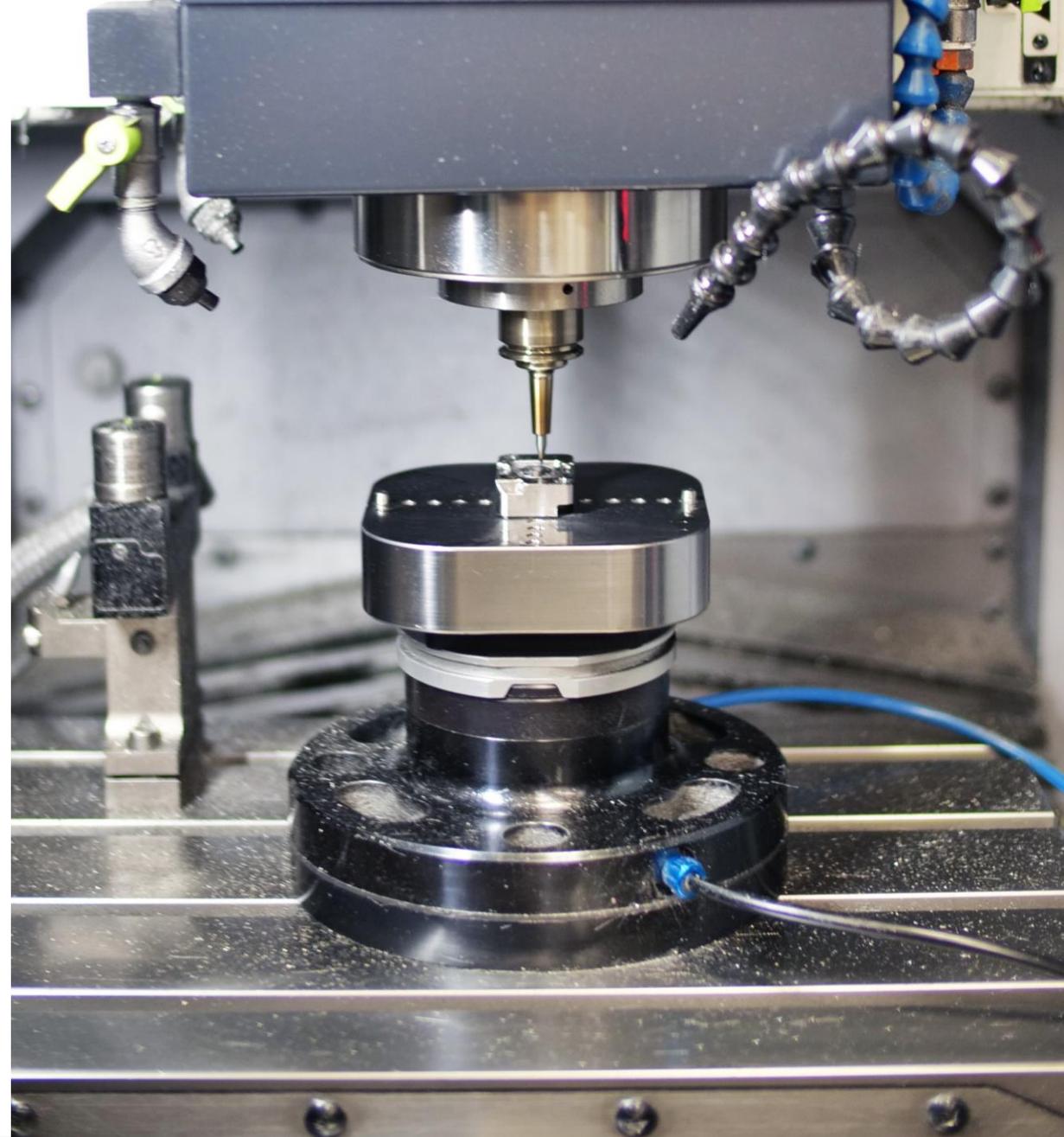
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Prototyping

We tailor our process to our customer's design cycle

- New concepts = Rapid prototyping
- Proven concepts and mature products lines = Production-intent prototyping
- We learn something every time we put a tool in the press to bring your product to life faster





Rapid prototyping

- Rapid prototyping for silicone, traditional elastomer and plastic molded parts
- Speed is based on part complexity and goal of project
 - Low: 5-10 business days
 - Medium: 10-20 business days
 - High: 20+ business days

Production-intent prototyping

- Production-intent tooling closely mirrors production
 - Production-intent parting line concepts
 - Same or similar grade of steel used on prototype tools as used on production tools
 - Enables us to match cycle times for production and identify risks/challenges with production tools
- Reduced scale version of production presses used in prototyping
 - Dial in process in prototyping as close as possible to production
 - Document risks and lessons learned to apply to the production process
- End results is ***faster speed to market***



Custom molded rubber solutions

- Material selection
- Design for Manufacturability (DFM)
- Speed to market
- One partner from prototype to production



Over-molded solutions

- Silicone-to-plastic
- Traditional elastomer-to-plastic
- Elastomers-to-metal
- Plastic-to-metal
- Silicone-to-silicone
- Two-shot molding





Full spectrum of materials

Silicone

- Liquid Silicone Rubber (LSR) and High Consistency Rubber (HCR) molding
- Custom additives and blends
 - Colorants, lubricants, conductive silicone, Barium Sulfate (BaSO₄) – Radiocontrast Agent, etc.
- FVMQ and PVMQ for custom applications

Traditional Elastomers

- Polyisoprene, EPMD, NBR, HNBR, halogenated-Butyl, and FKM
- Custom compounds and formulations available for unique applications

Plastics

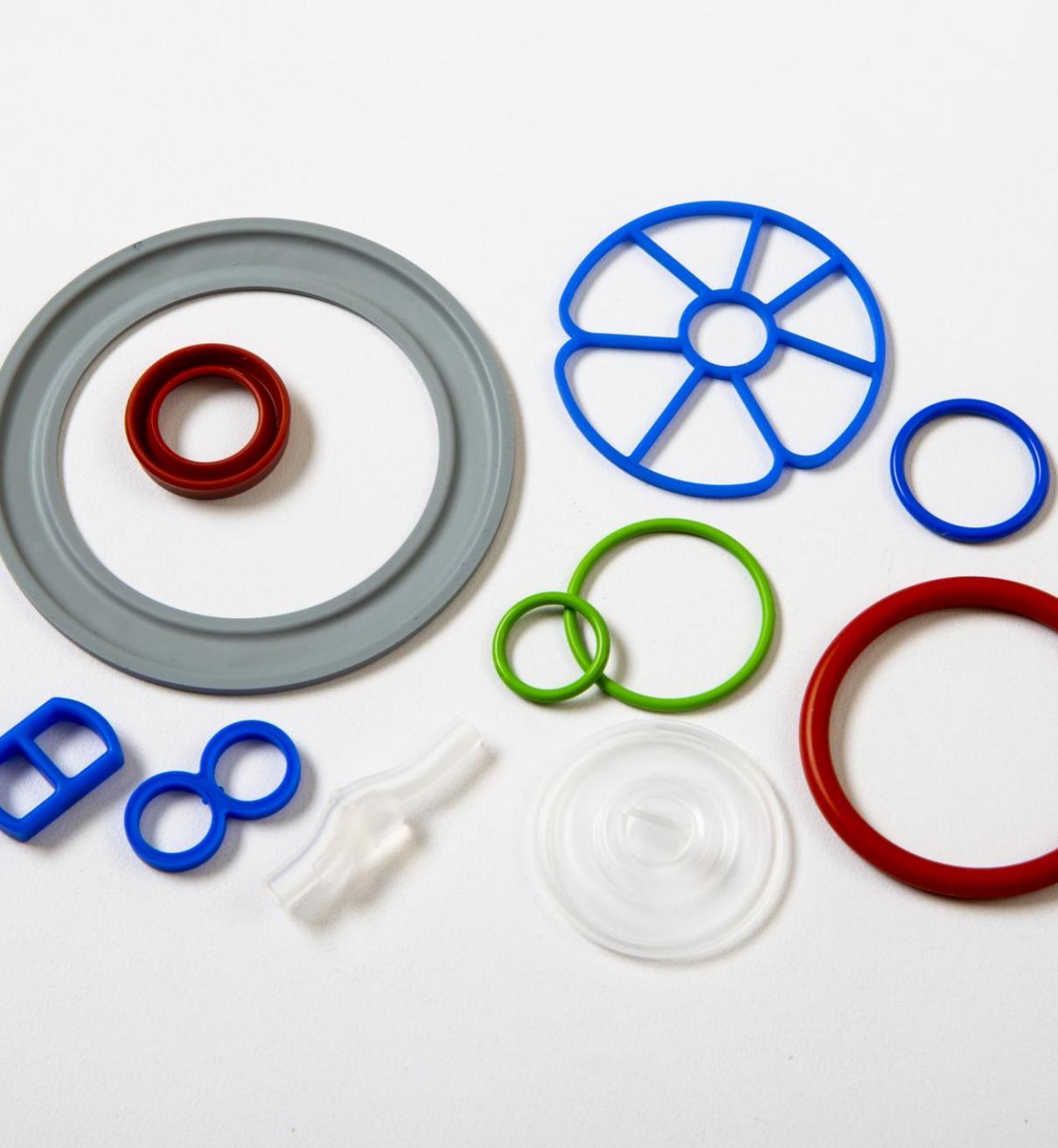
- High performance and engineering grade thermoplastic molding
- PEEK, PPSU/PSU, Pebax, PC, and ABS

Integrated Solutions

Producing finished medical devices and assemblies
as a one-stop contract manufacturer

- Full value stream management
- End-to-end supply chain management
- Capabilities in silicone molding and extrusion, thermoplastics, and management of supply partners
- Assembly, labeling, sterilization, and final packaging
- Single Quality Management System
- Global operations to support production ramp-up





Innovation, manufacturing & molding

- Passion for innovation, manufacturing, and molding
 - **Innovation:** Staying at the forefront of technology so we can quickly deliver cutting edge prototypes
 - **Manufacturing:** Applying our engineering expertise to help improve your manufacturing process by reducing lead times, cost and scrap rates
 - **Molding:** Combining tooling, material expertise, and process development to deliver the highest quality parts