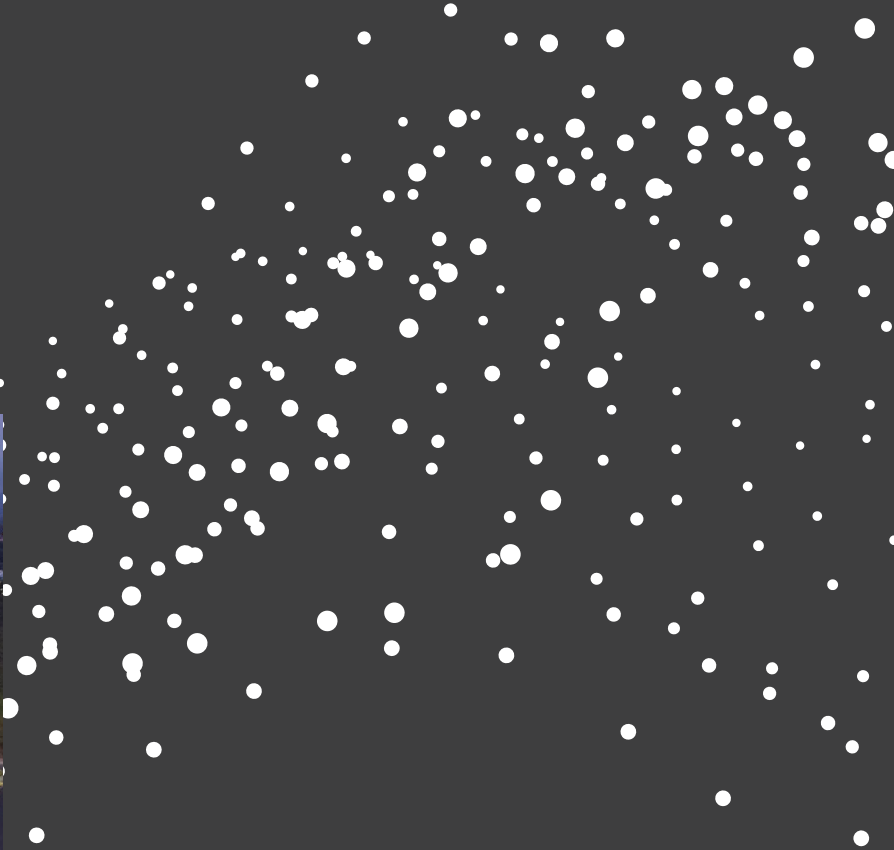


Capabilities:
Molding

Forward Thinking Manufacturing



For over half a century, Micro has been a leading supplier to fortune 100 clients and brands all over the world. Delivering micro metal and plastic componentry for OEMs as well as assembly for precision electromechanical products.



mic-tec.com/capability

Capabilities: Machining



Our Molding Capability

Micro molding technology is changing at a rapid pace and although molding equipment has improved in recent years, we still require a high skill levels from the machine operator to see the desired result.

For that reason, Micro employs only the best and most highly skilled workforce, and offers in depth training to ensure operators are consistent.

Tolerances include:

- 0.05mm - Plastic
- 0.005mm - Metal

Scientific Injection Molding

We employ a methodology titled "Scientific Injection Molding" or SIM for short. SIM uses a series of scientific tests to collect data and based on that data, we can optimize the most robust process for production. SIM eliminates process variability and variation from shot to shot and run to run, often associated with injection molded plastics.

These tests include;

- Viscosity curve
- Cavity balance study
- Gate seal study
- Hold pressure optimization
- Cooling time study, and
- Design of experiments

Monitor & Control

In addition, we also use cavity pressure sensors to monitor and control in-process molding parameters, which enable us to know if it's a good part even before the mold opens. Besides injection molding, most all our moldings have automation or an additional process integrated into production (such as insert molding, pad printing, or over-molding). This is seen in applications such as automotive sensors and cardiovascular medical devices.



Who relies on Micro



Our Certifications



An end-to-end one stop shop with single point accountability across design, manufacturing and logistics.

- ▶ **SIGMA Certified across many areas of the business with a company-wide at least 5-sigma quality mandate by 2020.**
- ▶ **ISO Certifications**
 - ISO 13485:2003 certification
 - ISO 9001:2008 certification
 - ISO/TS 16949:2009 certification
- ▶ **Quality (PPM)**
 - <100 ppm for low pressure, micro position sensing
 - <10 ppm for single component to sub-system integration
 - 0 ppm in Automotive.
- ▶ **Tolerances:**
 - 0.05mm - Plastic
 - 0.005mm - Metal
- ▶ **Precision:**
 - Stamping +/- 0.012mm
 - Assembly +/- 0.08mm
 - Molding +/- 0.05mm
 - +zero flash
- ▶ **Capabilities**
 - Plug and play logistics and VMI with global JIT
 - and TQM Total Quality Management
- ▶ **Shipping**
 - We ship over 1 billion parts per year to 39 countries.
- ▶ **Volume**
 - Over over 500,000,000 safety critical components delivered in 55 years of operation including
 - 200,000 units delivered weekly to Industrial / Aerospace
 - 5,000,000 units delivered weekly to Auto / Semi-Con
 - 150,000 assembled units delivered weekly to Medical

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