

Capabilities:  
**Machining**

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](http://mic-tec.com/capability)

# Capabilities: Machining



## Our Machining Capability

Precision manufacturing requires only the closest tolerances at scale, especially when the consequence of failure is high. Our state of the art Costa Rica facility offers complete machining of most materials.

- [Turning \(Swiss Turn\)](#)
- [Milling \(Hard Milling\)](#)
- [Cutting](#)
- [Drilling](#)
- [Laser](#)
- [Polishing and finishing.](#)

## Specialization

We specialize in Swiss-turn, hard milling and EDM, with the ability to go smaller than almost anyone else.

## Appetite for complexity

Pur half century track record reveals that we take on projects that others have often failed at. We thrive in complexity and our components often come with high consequence of failure and multiple operations.

## Our people

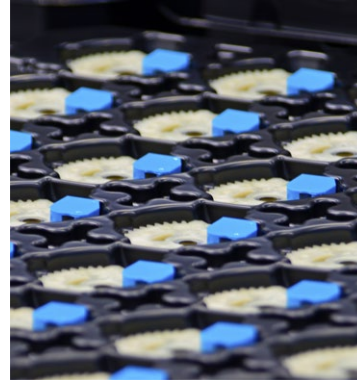
The expertise of our people ensures consistency as we push the limits of what is possible at a reduced size and increased scale.

## Capacity

We execute parts of any size and quantity, often well into the hundreds of thousands and millions. At this scale, we guarantee repeat consistency and we see this as our essential differentiator.

## Specialization

We standardize our tooling and machines where possible. Where there is no standard, we create custom components to get the job done. At Micro, we will create a custom drill or custom component where required because we are vertically integrated. We account for wear and tear, anticipating when a tool will reach its end of life on a machine, to customize the production flow efficiently. We have tested our tools over and over and understand the limits and capabilities that impact wear, in order to compensate for it.



## 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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