

**MANUFACTURING**  
SINCE 1990

HIGHLY ENGINEERED PRECISION PARTS

# WHO WE ARE

QT Manufacturing is a domestic contract manufacturer specializing in: Injection mold making, Plastic injection molding, and Precision CNC machining.

QT Manufacturing started in 1991 primarily as a mold maker building specialized molds for optoelectronic and sensor applications. The company grew its capabilities and customer base along the years, but maintained its niche for high quality and precision. In the late 1990's, QT Manufacturing began injection molding high precision plastic parts. Now the company runs a mix of both short run and high volume molds, 24 hours per day.

In the early 2000's, as an extension of its reputation for high quality and ultra precision, QT began manufacturing metal production parts as well. The CNC machining department specializes in highly engineered precision metal parts for low and high volume mixes.

QT Manufacturing prides itself on pursuing the projects other manufacturers shy away from.

Highly engineered,  
precision parts that fit in  
the palm of your hand.  
That is our specialty.

# WHAT WE DO

## MOLD MAKING

At QT Manufacturing, **our primary focus is designing and building complex molds**. We specialize in connector molds for the telecommunications and fiber optics industries, precision molds for the optoelectronics industry, insert connector molds, and overmolds. Our engineers work with you to enhance your concept with an injection mold design that maximizes the quality and efficiency of the component creation process. Our master injection mold makers construct molds made of aluminum, steel and alloys for small, precision parts needed in industries like aerospace and medical.

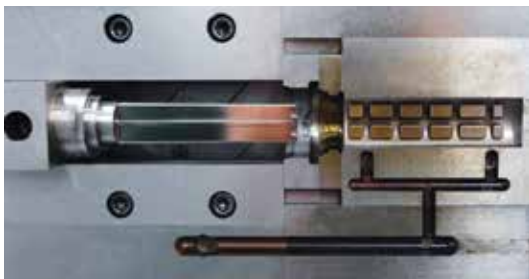
- We are uniquely qualified to work with you from design and prototyping to injection mold tooling and maintenance for large production runs.
- We are a domestic mold maker. Our tools are proudly made in the USA.
- Decades of experience building SPI Class 104 to Class 101 injection molds.
- Capabilities include building fixtures, dies, replacement tooling, & custom parts.
- Experience building simple prototype injection molds in universal bases, low volume prototypes and production, as well as complex design molds with custom mold bases the capability of running millions of parts per year.
- We specialize in high precision complex molds, including connector molds, optical sensor housings, photonics as well as premium consumer products.

Our skilled toolmakers have become experts fixing and maintaining molds that have been damaged. Our injection mold storage and maintenance service extends the working life of your injection mold and greatly increases the quality of the components manufactured. Regardless of the original mold creator, we offer all services required to properly store, maintain, and repair molds. In addition, all injection molds are tested, cleaned, oiled and inspected before every production run to insure they perform as designed.

### Services offered:

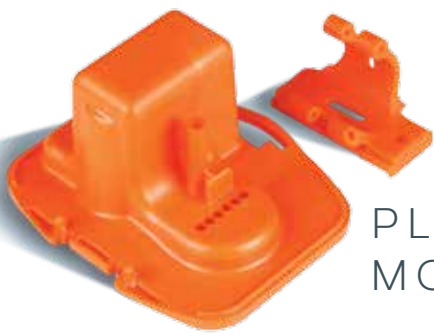
- EDM wire and sinker capabilities – 4-axis CNC EDM Wire, CNC EDM Hole-driller, & 4-axis CNC EDM sinker machines allow for high volume & precision EDM services
- Fixture & Die fabrication
- Custom machining
- Prototypes
- Mold repair & maintenance

## PRECISION IN MOLD MAKING



Our skilled toolmakers can machine metal with tolerances of .0001" (one ten thousandth) or less in certain cases. This level of precision requires thermal expansion compensation steered by the knowledge of experienced engineers on staff.





## PLASTIC INJECTION MOLDING

We specialize in small form factor injection molded plastic parts. We are able to produce both low and high volume lots. From prototype volumes to high volume mass production, QT manufacturing is able to produce your part accurately and consistently.

We have years of experience manufacturing custom plastic injection molded parts using common plastics (e.g. ABS, Polycarbonate, Nylon, Polypropylene, etc.) and engineering grade resins (e.g. PEEK, Ultem, Valox, etc.).

If you are looking for a turnkey solution to your custom plastic injection molding needs, QT Manufacturing is your complete provider. From designing your first prototype to mass-producing your finished component, we are uniquely qualified to deliver custom plastic injection molding solutions that optimize precision and offer superior quality at competitive prices.

### Services offered:

- **Design:** by understanding how you intend to use your component, we can work with you to design and fabricate custom plastic injection molds to maximize functionality and/or durability, yet use the most cost efficient process available.
- **Consult:** experienced engineers, mold designers and master toolmakers consult on all technical aspects of the injection mold for optimal performance and minimal maintenance.
- **Build:** our in-house custom plastic injection molding equipment takes your idea from design and prototype to mass production. We have capacity to run high volume multi-cavitation molds (1 million+ parts) and maintain them throughout the life of the injection mold. Our molding process produces consistent plastic parts and high tolerances.
- **Inspection:** We offer visual inspections from set periodic intervals to 100% part inspection based on your needs & quality control criteria.



Tight tolerances are our specialty.

The Injection Molding Department operates 24 hours per day.



## CNC MACHINING

QT Manufacturing is a state-of-the-art precision CNC machine shop that serves entrepreneurs and manufacturers nationwide. We produce high quality, consistent and precise machined parts while maintaining tight tolerance quality throughout the life of the project. Whether your material part requirements are plastics, aluminum or steel, we offer precision CNC machining for **quick turn prototypes and low-to-high volume production options.**

- Our engineering staff helps you with your designs to provide the most efficient and affordable precision CNC machining solutions for your project.
- We take advantage of the latest CAD/CAM software in order to gain the best possible design (e.g. Solidworks and Mastercam).
- We consistently machine tight tolerance, complex parts to  $\pm .001$ ".
- All machined parts are inspected with our rigorous internal quality control procedures before shipping
- Light assembly services available

QT Manufacturing can take your high volume precision CNC machining, EDM wiring, and EDM sinker projects to the next level. We are unique in the industry with our ability to provide a one-stop shop for your design, quick turn prototyping and complete mass production of your component. Whether it is a simple component or a family of complex geometry parts, we offer a turnkey domestic manufacturing solution for all your precision CNC machining requirements.



# FACILITY

QT Manufacturing is in a climate controlled, 31,000 square foot facility strategically located near downtown Dallas. This state-of-the-art manufacturing center was specifically designed for lean manufacturing, increased throughput, and shortened lead times.

We believe that our manufacturing partners expect a **higher level of service, efficiency, craftsmanship, and quality.** Our goal is to always exceed our customer's expectations.



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