Custom Precision Metal Stamping and Industrial Fasteners

TS 16949

ISO 14001
Mastering Quality

In an age of JIT deadlines and tight turnarounds, Master Manufacturing has developed a process that emphasizes quality craftsmanship and personal service, while delivering a quality product. From concept to prototype to finished product, you can rely on Master Manufacturing’s vertically integrated facility for your One Stop Sourcing Solution!

With over 45 years of design, engineering, and reengineering experience, highly skilled and certified master craftsmen, and a full-service, state-of-the-art tool and die facility, Master Manufacturing is able to reduce tooling lead-times and costs and provide a consistent product from start to finish. Our internally controlled processes eliminate concerns for out-sourced quality control, earning us Certified Status with many of our customers.

Our commitment to Quality through Statistical Process Control benefits our customers by increasing customer product reliability and reducing our total manufacturing costs. Master Manufacturing is certified to ISO/TS 16949 Quality Standard and our Environmental Management System is registered to ISO 14001.
Committed to Quality

Continuous improvement programs are developed through the use of APQP (advanced product quality planning) and applying SPC (statistical process control) and FMEA (failure mode and effects analysis) methods to our process. This framework for measurement and control of process allows for continuous evaluation to find opportunities for improvement in the manufacturing, finishing and assembly processes we provide to our customers.

- Project Launch Plan from tool design to production
- Electronic in-die monitoring
- Management systems for on-going Process Control

Testing Capabilities

- Neutral Salt Spray
- Plating Thickness
- Coating Weight
- Rockwell Hardness

Committed to Our Customers

Master Manufacturing completes the manufacturing process with stringent quality controls and personnel dedicated to exceptional customer service. Every customer call is answered by a live representative instead of an automated attendant.

- Quick Turnaround on Requests for Quotation
- Rapid Response to Customer Inquiries and Change Orders
- Direct Sales Contact and Internal Customer Support
Producing Quality Parts

Product performance relies heavily on the individual parts that make up the whole. Master Manufacturing’s production process can deliver large volumes of high quality parts, and we are able to reduce costly downtime by using our in-house state-of-the-art tool & die shop. Our equipment gives us the capacity to produce large quantities of first-quality parts in a short time, including production of over 20 million pieces per year per job.

Production Equipment

- (26) Four-slide machines capable of producing components 2+ inches wide
- (4) 60 Ton Rousselle assembly presses
- (5) AIDA servo punch presses from 45T to 220T
- (1) High speed Minster press

Secondary Operations

- Riveting
- Staking
- Tapping
- Vibratory sorting
- Deburring

Materials used in production

- Spring Steel
- Stainless Steel
- Aluminum
- Brass
- Low Carbon Steel
- Galvanized Steel
- Copper
- Others
Product Finishing

Master’s Finishing and Secondary Operation is a standout strength in our operations. We are one of the few precision parts producers that also offers the final step to a stamping: Product Finishing. Our finishes comply to most automotive, appliance and government specifications while the key process parameters are measured by our computerized plating line.

- (2) Austemper Heat Treatment Lines
- Automated Zinc Electroplating Line
- Waste Water Treatment Facilities
- Zinc Phosphate Line
- Automated Dip-Spin Paint Line
- Hex free-RoHS Compliant Chromates
- Colored Dyes
- Value-add Assembly
- Packaging and Distribution
- High Temperature Bake and Cure Ovens
- Citric Passivation

Speciality Finishes

We have strategic alliances with ISO certified suppliers for the following finishes:

- E-Coat
- Nickel Electroplating
- Anodizing
- Plastisol Coating
- Powder Coating
- Automotive Organic Coating
- Electro-Polishing
- Alloy Zinc Electroplating
- Many Others
Purchasing and Shipping

Our capabilities for sourcing raw material and components domestically and globally for production aligns us with suppliers that provide low cost advantages to meet our customers demand for JIT and Kanban shipping methods.

- EDI (electronic data interchange) for daily, weekly releases
- MRP systems to control all production processes
- Custom Bar Coding, EZISM, ASN (advanced shipping notice)
- Customer provided transit, Full Truckload or LTL consolidation
- Supplied non-returnable corrugate shipping boxes
- Customer supplied returnable containers for closed loop system

Assembly

Master Manufacturing’s assembly services can be an extension of your company’s lean manufacturing program. Whether your needs are simple kitting of parts or joining parts of an assembly together, our lean cells are equally adept at meeting customer needs, helping to realize higher productivity and lower costs.

- Supply chain management
- Reduced in-process inventory and associated carrying costs
- Time and motion studies for waste elimination
- Work station and line design for improved productivity
- Streamlined operations to reduce overall costs
Engineering – The First Step

Whether designing a component from scratch or reengineering an existing part, Master’s engineering team focuses on meeting your specific application requirements in order to result in a functional and cost effective product. A successful product is directly related to a strong prototype.

Master Advantages

- Engineering and Design assistance for superior production performance
- Quick turn around on Prototype sampling
- Prototypes are 95% to specifications for testing fit and function in a product
- Prototype testing increases cost efficiency and development speed

In-House Tool & Die Facility

Master’s State-of-the-Art, 12,000 sqft Tool & Die Facility is equipped with the most advanced Mitsubishi Wire EDM machines, Mitsubishi EDM Hole Driller, Mazak CNC Lathe, CNC Mills, and grinders that will exceed your expectations. Our tool room is staffed by Master Craftsman with over 90 years of tool building knowledge capable of producing progressive dies, four-slide dies, and our own innovative tools used in our secondary operations and assemblies.

Engineering software supported

- SolidWorks
- CATIA
- AutoCad
- MasterCam
- Customer specified software
Certifications
ISO/TS 16949 and ISO 14001

Industries Served (but not limited to)
- Automotive
- Appliance
- Electronic
- Industrial
- Lighting
- Computer
- Military
- Furniture
- Railroad
- RV

Customers (Partial list)
- Whirlpool
- Electrolux
- General Electric
- Johnson Controls
- IAC (International Automotive Components)
- General Motors
- Supply Technologies
- Scientific Lighting
- Magna Powertrain
- Chrysler
- Flextronics
- Nitto Denko
- Jones Plastics
- Mercedes
- Kimball
- Electrical Components International
- Air xcel
- Mitchell Plastics
- Fleetline Products