



Experts in Custom Medical Stampings



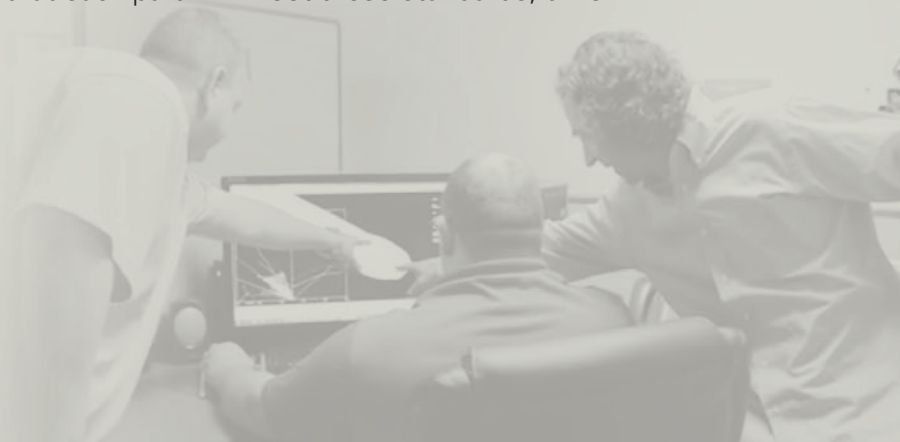
Kenmode
Precision Metal Stamping

Moving medical products to market

Kenmode brings decades of experience to the development of innovative metal stampings for the medical device industry, with a commitment to quality that runs from concept through production and beyond.

Our large engineering and design team works with our clients to help speed time to market and drive costs down on new part design, from micro-miniature parts to larger components and assemblies. We then develop production tooling to deliver those parts on time and on budget. We also can advise manufacturers on ways to achieve efficiencies with existing parts that have the potential to be converted to a metal stamping from a more expensive process.

As an ISO 13485 certified company, we understand the strict standards of the medical device industry and the critical importance of patient safety. We focus on zero defects to ensure that each part will meet those standards, time after time.





High-performance medical stamping capabilities

Kenmode provides comprehensive metal stamping services for medical devices from custom design and prototyping through in-house tooling, production, assembly and packaging, allowing customers to work with one supplier for all functions.

We operate a state-of-the-art Tech Center dedicated to research and development, prototyping, engineering, tool design and build, and program management for new products.

Metal stampings for medical devices

Since 1960, Kenmode has been delivering parts requiring extremely complex geometries and assemblies that meet all the requirements. Our in-die sensing and tooling technology and strict process controls enable us to produce a wide range of precision medical stampings.

Capabilities for medical stamping applications include:

- DFM, simulation software and rapid prototyping
- In-house engineering, design and tool build (CPPD)
- In-die sensing technology
- Thorough testing and parts validation
- 3D tool design
- 3D high-speed hard milling
- EDM machining
- Exporting

Metal stampings for the medical device industry include parts for:

- Insulin pumps
- Implantable devices
- Surgical devices including endoscopic, laparoscopic, and others

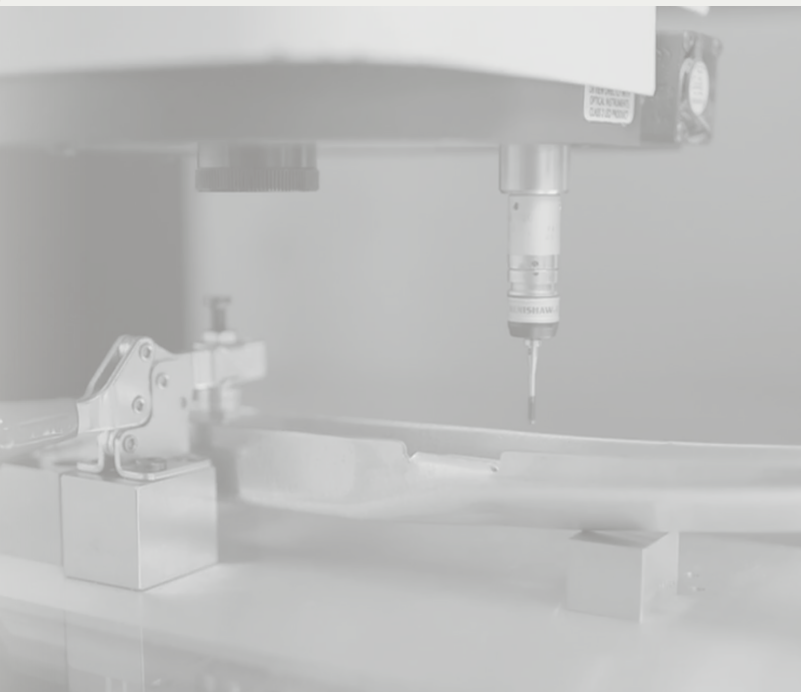
HIGH PERFORMANCE

QUALITY ASSURANCE

Rigorous quality assurance

Kenmode's commitment to quality begins with our top management and extends throughout the organization with regular company-wide training in best practices.

- Robust launch and qualification processes (DQ/IQ/OQ/PQ)
- Prevention-focused process control, change control and corrective and preventive actions (CAPA)
- Risk management for complex products (FMEA)
- Careful supplier selection, monitoring and evaluation
- ISO 13485:2003 certified



Advanced technology

Kenmode employs sophisticated technology to streamline metal stamping processes and achieve the highest quality metrics, including real-time sensing technology developed by our own engineers.

- One of the largest Bruderer and Minster shops in North America
- High-speed precision presses
- In-die protection systems
- In-die technology that creates a knife edge to eliminate secondary operations
- In-tool assembly of two or more components

Secondary operations for medical devices are performed in-house and supervised through certified suppliers under strict quality controls.

- Forming and laser welding
- Specialty cleaning and deburring
- Electropolishing
- Precious metal plating: pre-plating, post-plating, and spot-plating
- Overmolding of medical grade elastomers and polymers
- Passivation
- Assembly
- Sterilization
- Custom packaging
- Inventory management

Specialty materials

Kenmode has experience working with the metals used in the medical device industry, with the ability to design stampings to minimize the use of precious metals and keep costs down.

- Stainless steel
- Titanium
- MP35N
- Platinum iridium
- Niobium
- Tantalum
- Aluminum
- Copper
- Custom shaped wire
- Material thicknesses range from .0015 to .125+

Count on Kenmode

Kenmode has an extensive track record in producing quality stampings for medical device manufacturers to meet global standards at competitive costs. When you contact Kenmode, we immediately put our best minds to work on your new product requirements. We invite your inquiry.

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About Kenmode Precision Metal Stamping

Since its founding in the Chicago suburbs in 1960, Kenmode has built a reputation for strict adherence to uncompromised quality and performance standards in the manufacture of complex, high-precision custom metal stampings and assemblies for the medical device, electronics, consumer goods, and telecommunications industries worldwide. Today, Kenmode fields one of the largest and most experienced engineering, design, and tool & die teams in the industry and employs the latest technology throughout the metal stamping design and production process. Kenmode handles a wide range of metal stamping materials and component parts, from micro-miniature medical stampings to large stampings made from steel.

