

Mekon Custom Needle and Cannula Solutions for Precision Medical Device Applications



Shanghai, China Jun 11, 2026 ([IssueWire.com](https://www.IssueWire.com)) - As a leading [disposable custom needle OEM factory](#), Shanghai Mekon Medical Devices Co., Ltd. continues to provide advanced customized needle and cannula solutions for global medical device manufacturers. With the rapid growth of minimally invasive procedures, drug delivery systems, diagnostic technologies, and precision surgical instruments, the demand for highly specialized medical needles and cannulas has increased significantly. Mekon supports this evolving market through precision engineering, customized manufacturing capabilities, and strict international quality standards.

Established in 2009, Shanghai Mekon Medical Devices Co., Ltd. focuses on customized solutions for special medical needles, cannulas, precision medical metal products, and related medical consumables. The company integrates tube welding, tube drawing, machining, cleaning, packaging, and sterilization into a complete production system, ensuring reliable quality control throughout the manufacturing process.

Growing Demand for Customized Needle and Cannula Solutions

Modern medical devices often require highly specialized needle and cannula components designed for unique clinical applications. Standard products may not always meet the dimensional accuracy, material compatibility, or functional performance required by advanced medical systems.

As medical device technologies continue to evolve, manufacturers increasingly seek OEM partners

capable of delivering:

- Precision customization
- Complex structural designs
- High-performance materials
- Tight dimensional tolerances
- Reliable mass production
- Regulatory compliance support

Mekon addresses these needs through comprehensive custom development services tailored to customer-specific applications.

Custom Development Based on Customer Drawings or Samples

One of Mekon's core strengths is its ability to develop and manufacture products based on customer drawings, technical specifications, or physical samples. This flexible OEM and ODM capability allows medical device companies to accelerate product development while ensuring technical accuracy and manufacturing feasibility.

Design and Engineering Support

Mekon works closely with customers during the product development stage to optimize needle and cannula performance. The engineering team can assist with:

- Structural design evaluation
- Material selection
- Tube dimension optimization
- Tip design improvement
- Surface treatment recommendations
- Manufacturability analysis

Whether customers provide complete technical drawings or initial concept samples, Mekon can support prototype development and production refinement.

Prototype Development and Testing

For many medical device companies, rapid prototyping is essential for clinical evaluation and product validation. Mekon offers customized prototype manufacturing services to help customers verify product performance before large-scale production.

Prototype capabilities include:

- Custom tube fabrication
- Precision laser cutting
- Needle grinding
- Cannula shaping
- Specialized tip processing
- Assembly validation

This development process helps reduce product development timelines and improves design efficiency.

Wide Range of Customized Medical Needle Products

Over the years, Mekon has developed a broad portfolio of specialized medical needles and cannulas for different medical applications.

The company's product range includes:

- Anesthesia needles
- Blood collection needles
- Cosmetic needles
- Ophthalmic needles
- Huber needles
- Biopsy needles
- Bone marrow needles
- Liposuction cannulas

In addition, Mekon has developed numerous complex accessories and precision components, including:

- Half-cut guide needles
- Ovum aspiration needles
- Laser-cut tubes
- Spatula tip cannulas
- Insulin pump cannula accessories

This extensive product experience enables Mekon to support highly specialized and technically demanding medical projects.

Advanced Manufacturing Technologies Ensure Precision

Precision manufacturing is critical for medical needle and cannula production. Even minor dimensional inconsistencies can affect device performance, safety, and patient outcomes.

To ensure manufacturing stability and precision, Shanghai Mekon Medical Devices Co., Ltd. utilizes advanced production equipment imported from Japan and the United States. The company has also independently developed specialized processing equipment to meet unique customer requirements.

Key manufacturing capabilities include:

Precision Tube Welding and Drawing

Mekon's advanced tube processing technologies support highly accurate dimensional control and consistent tube quality. This is particularly important for thin-wall tubes and miniature medical device components.

High-Accuracy Machining

The company performs precision machining processes for complex needle structures, customized cannula geometries, and intricate medical components requiring tight tolerances.

Laser Cutting and Special Processing

Mekon offers advanced laser cutting capabilities for highly specialized designs and precision openings that are difficult to achieve through conventional machining.

Cleaning, Packaging, and Sterilization

Medical device cleanliness and sterility are essential for regulatory compliance and patient safety. Mekon integrates medical-grade cleaning, sterile packaging, and sterilization processes into its production system to support high-quality finished products.

Strong Quality Assurance and Regulatory Compliance

Global medical device manufacturers require suppliers that meet strict international quality and regulatory standards. Mekon maintains a comprehensive quality management system that supports customer compliance requirements across multiple international markets.

The company holds several important certifications and approvals, including:

- CE Mark
- ISO 13485 Certification
- FDA 510(k) Clearance
- MDSAP Certification
- TGA Australia Approval

These certifications demonstrate Mekon's commitment to quality consistency, manufacturing reliability, and global regulatory compliance.

Supporting Global Medical Device Manufacturers

Today, Mekon serves medical device customers across North America, Europe, China, Latin America, Africa, and Australia. Through years of technical development and manufacturing experience, the company has established itself as a trusted supplier for many well-known medical device companies worldwide.

Mekon's advantages include:

- Flexible OEM and ODM services
- Fast product development response
- Stable manufacturing quality
- Specialized customization capabilities
- International regulatory compliance
- Comprehensive production integration

The company develops hundreds of specialized needle products annually, helping customers continuously innovate in competitive medical markets.

Commitment to Innovation and Long-Term Partnership

As medical technologies continue to evolve, demand for customized precision components will continue to increase. Mekon remains committed to supporting customer innovation through advanced engineering, specialized processing technologies, and continuous quality improvement.

The company's mission is to provide innovative solutions and valuable technical insights that help customers accelerate development and achieve long-term growth. By continuously enhancing its specialized needle and cannula manufacturing capabilities, Mekon aims to become one of the world's leading customized medical needle and cannula solution providers.

With strong engineering expertise, advanced manufacturing systems, and international quality certifications, Shanghai Mekon Medical Devices Co., Ltd. continues to support the global medical device industry with reliable, precision-engineered needle and cannula solutions.

For more information, please visit: www.mekonneedle.com

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