

First Mold Unveils Strategic Upgrade with Modular Cleanroom Capabilities

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Dongguan, China — April, 1, 2026 — First Mold has partnered with leading global companies for over years as a mold-making expert. To improve its production and enhance effectiveness, the company announced today that it will undertake a comprehensive strategic upgrade to further strengthen its capabilities in the medical sector. The company seeks to expand its market base in the medical industrial partners by strengthening its production infrastructure. The upgrade is a multilevel approach targeting different organizational setups. It seeks to source advanced, flexible cleanroom solutions to create an environment that best suits the production of [medical industrial molds](#). The company looks forward to expanding its dual-facility operational model to maximize productivity and meet increased market demand. The upgrade seeks to further reinforce its long-term commitment and reliability towards high-end injection molding and precision mold manufacturing. This long-term commitment is grounded on the possibility of the company sourcing for more customers in the medical and automotive industries, where validation and precision are key. This evolution is expected to increase First Mold's trust in the online injection molding supplier. The ever-increasing complexity of demands from a diverse client base calls for this company to deliver scalable, highly precise manufacturing solutions, especially in critical sectors such as the medical industry.

Building on Deep Expertise to Extend into Cleanroom Manufacturing

First Mold has, over time, demonstrated its commitment to improving its clients' productions. The company has continuously improved the quality of its products, especially in the medical sector. Industries operating in non-cleanroom applications in the medical sector have, over the years, cemented their trust in First Mold. This company has supplied products with high precision and material consistency. First Mold believes the working environment is changing, and soon, their partners will be seeking [cleanroom manufacturing](#). Effectively, to avoid being caught unaware by a surge in demand, the company is looking to advance its production technology to cleanroom manufacturing.

First Mold has been operating on the one-size-fits-all model. Under this model, numerous mold designs have been produced. However, amid rising demand, the company has opted for a flexible approach, tailoring production environments to customers' specifications. The system is expected to be rapidly deployable, modular, and clean. This approach allows for parallel production, avoiding backlogs and releasing production pressures. "We value every client. Soon, our partners will come in with diverse product specifications that we have to meet on time. The customized modular approach enables us to serve all our clients with ease, precision, and timeliness, said James Li, General Manager. Li further clarified that First Mold's expansion into cleanroom manufacturing aims to advance its technical capabilities and transform the company into a customer-centered organization. "We have been players in the medical industry. Our partners in the medical industry have proven beyond a doubt that they trust us to deliver the best products. We therefore want to give them a better, cleaner manufacturing approach", added James Li.

Flexible, High-Performance Cleanroom Solutions for Modern Medical Projects

The flexibility of the newly introduced cleanroom helps to address the changing needs of [medical device manufacturers](#). One feature of the First Mold cleanroom is its rapidly deployable modular cleanroom systems. These cleanrooms are made from pre-engineered components. They are not permanent. This implies the manufacturing team can quickly assemble the cleanroom units within the available factory space. It is easier for the team to install the air conditioning systems, such as the pre-designed airflow systems. These cleanrooms have shorter deployment times.

The second feature of these cleanrooms is their ability to be configured to meet specific requirements. These units can be set based on the customer's requirements and adjusted to meet the production requirements, whether for molding, assembly, or packaging. These provisions ensure that the units and the production comply with FDA and ISO standards.

While acknowledging the flexibility and precision required in the current medical manufacturing, Michael Wang (the Technical Director at First Mold) noted that the company can achieve the key production standards while also adopting technical and operational provisions of every project presented by the clients, "we really needed systems of controlled environments that meet FDA and ISO standards to save the legal and validation costs. The cleanrooms help to achieve the controlled working environment and

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expertise on the technical and operational demands from our clients”.

Expanded Dual-Facility Model Enhances Efficiency and Capacity

Apart from enhancing its quality of service provisions, First Mold has revolutionized its systems and human resources in optimizing its operational efficiency. A facility that primarily focuses on rapid prototyping services has opted to expand its production base by adding CNC machining and [3D printing service](#) in a second parallel facility. This second parallel system absorbs excessive production demands, relieving the main system of the pressures and tensions of meeting customers' deadlines.

The second parallel production line helps the company to undertake prototyping and CNC operations to enhance production iterations. Bowen Huang, Production Manager at First Mold, revealed that employees initially experienced fatigue and could not withstand the pressures from the increasingly high customer demands. The second dual production system has allowed employees to relieve tension and improve production. “We lost most of the employees who would resign because of the overwhelming demands from our customers. We now have the second system, which absorbs the excessive pressures, allowing our team to work without pressure and no longer developing fatigue.”

Strategic Space Reserved for High-End Manufacturing Growth

First Mold looks forward to expanding its operations. With the global population increasing, demand is expected to grow exponentially. This will require the company to install more infrastructure and machinery. As a result, the company has set aside over 10000 sq. Meters of free space reserved for future expansion. While some individuals may consider that space as unused capacity, it represents the company's commitment and resilience towards growth. This will trigger the company to source more advanced machinery and invest heavily in R&D. “We have enough space to expand. We therefore have no option but to adapt to customers' ever-changing demands and expand our operations exponentially. We are ready to face the ever increasingly competitive market”, elaborated Young Lee, Sales Director.

Integrated Manufacturing Ecosystem from Concept to Production

The two facilities at First Mold complement each other to offer a highly integrated manufacturing system. The main facility offers large-scale injection molding, mold manufacturing, and medical-grade production. This system also deals with cleanroom operations. The second facility undertakes product development. It deals with low-volume production. Key activities along this line include rapid prototyping, CNC machining, and 3D printing. This dual production approach creates a production environment of enhanced efficiency, precision, and scalability.

Strengthening Value for the Medical Industry

The changes undertaken at First Mold aim to support standardized, compliant, and reliable manufacturing solutions. The company is positioning itself to meet customers' demands and address key challenges facing productivity in modern medical manufacturing. Clients stand in the best position to benefit from this system. They will access the cleanroom production environments, enhancing the quality of their products. They will also access integrated services across design, tooling, and manufacturing.

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