

KLARM Expands CNC Capacity with New Machine Investments to Support Rapid Growth from eVTOL Aircraft Customers



Guangzhou, Guangdong Mar 23, 2025 ([Issuewire.com](https://www.issuewire.com)) - KLARM, a globally recognized leader in precision [CNC machining services in China](#) and custom manufacturing solutions, is pleased to announce a significant expansion of its machining capabilities to meet the growing needs of the **eVTOL (electric Vertical Takeoff and Landing) aircraft industry**. As demand surges from aerospace innovators developing next-generation air mobility platforms, KLARM has made a strategic investment in a suite of **new high-performance CNC machines**, boosting its production capacity, precision, and responsiveness for customers in the rapidly evolving **urban air mobility (UAM)** sector.

This expansion includes the addition of multiple **5-axis CNC machining centers, Swiss-type lathes, high-speed vertical and horizontal milling machines, and automated inspection systems**, all designed to manufacture **tight-tolerance, safety-critical components** for electric aircraft. KLARM's enhanced capabilities are now fully operational and already supporting prototype and production orders from several eVTOL and advanced aerospace clients.

As the eVTOL industry transitions from development to commercialization, manufacturers are under intense pressure to produce **lightweight, highly reliable, and precisely engineered components** at scale. These components are vital to the performance and safety of eVTOL platforms, which are expected to operate in densely populated urban environments under stringent regulatory oversight.

KLARM's new machines enable the company to deliver these components with **faster turnaround times, exceptional consistency, and increased scalability**, helping eVTOL manufacturers stay ahead of aggressive timelines and investor expectations.

*"Electric aviation is no longer a vision of the future—it's happening now," said **Jacky**, CEO of KLARM. "As aircraft designs become more compact, complex, and performance-sensitive, we've equipped ourselves with the tools and expertise to become a dependable partner to this industry. Our latest investments reaffirm our commitment to supporting the eVTOL revolution from the ground up—with precision, speed, and innovation."*

KLARM's new equipment significantly enhances its ability to serve clients working on cutting-edge electric aircraft, including:

5-Axis CNC Machining Centers

Capable of producing complex geometries in a single setup, these machines are ideal for:

- Flight-critical structural components
- Compact propulsion system housings
- High-performance aerodynamic parts

Swiss-Type CNC Lathes

Engineered for high-precision small parts, Swiss lathes support:

- Precision shafts, pins, and spacers
- Custom fasteners for lightweight assemblies
- Actuator and control system components

High-Speed Milling & Turning Centers

Optimized for both prototyping and batch production:

- Electric motor mounts and brackets
- Battery housing frames and cooling fins
- Navigation system enclosures

Quality Control & Automation Enhancements

To meet rigorous aerospace standards, KLARM is also integrating:

Coordinate Measuring Machines (CMMs) for ultra-accurate inspection

Optical and laser-based measurement systems

Automation and robotics to improve production consistency and reduce lead times

KLARM's upgraded machining capabilities are optimized for the **high-performance materials commonly used in eVTOL manufacturing**, including:

Titanium alloys for lightweight structural strength

Aluminum alloys (6061, 7075) for frames, supports, and covers

Carbon fiber composite integration with CNC-machined interfaces

High-performance thermoplastics like PEEK and Ultem for electrical and thermal enclosures

Stainless steel and tool steels for wear-resistant components and fixtures

This investment is part of KLARM's long-term strategy to position itself as a **preferred manufacturing partner** for the aerospace and advanced mobility sectors. In addition to machine upgrades, the company is:

Hiring additional aerospace-focused engineering talent

Expanding its prototyping division to reduce development lead times

Pursuing AS9100 and NADCAP certifications to meet global aerospace compliance standards

Collaborating with eVTOL startups and R&D groups on early-stage design-for-manufacturing (DFM) support

*"We're not just investing in machines—we're investing in relationships and readiness," said **Jacky**. "We want our eVTOL clients to feel confident that we can handle their current and future needs, from early development through scaled production. That's what this expansion is all about."*

Founded in Guangzhou, KLARM is a full-service [Chinese precision machining producer](#) with over 20 years of experience delivering high-quality components to clients in industries such as **aerospace, robotics, automotive, medical devices, and energy**. The company offers a full suite of services including **5-axis CNC machining, Swiss turning, prototyping, small-batch production, and surface treatment**.

With a reputation for engineering excellence, KLARM is known for its ability to deliver **complex, close-tolerance parts in a wide range of materials**—backed by rigorous quality control and responsive customer service.

As the world moves toward **smarter, more sustainable mobility**, KLARM continues to invest in technology, talent, and partnerships to remain at the forefront of manufacturing innovation.

Media Contact

Klarm Group Limited

*****@gmail.com

Lanny Larm

Panyu, Guangzhou, Guangdong, China

Source : Klarm Group Limited

[See on IssueWire](#)