

"emIII Series" 5,500ton Clamping Force

Launch of the World's Largest All-Electric Injection Molding Machine "5500emIII"

In October 2025, UBE Machinery launched the "5500emIII," the ultra large all-electric injection molding machine with the world's largest clamping force of 5,500 tons.

UBE Machinery has manufactured more than 100 large injection molding machines with clamping forces of 4,000 metric tons or greater. The company has also launched an ultra-large die casting machine for Giga Casting with a clamping force of 9,000 metric tons, earning high praise from customers around the world for its expertise in large-scale equipment. To meet the growing demand for larger plastic products, UBE Machinery has expanded its lineup by adding two new models in the ultra-large electric injection molding machines — the 5,500-metric-ton and 5,000-metric-ton models.

Driven by increasing demand for lightweight components accompanying the shift toward xEVs in the automotive industry, the market for large plastic parts such as exterior body panels and underbody aerodynamic components is expanding rapidly.

We will continue to support improved productivity across various industries—including automobiles, motorcycles, home appliances, industrial materials, and housing equipment—through technological development that balances environmental performance with production efficiency, contributing to a sustainable future.

Main Specifications

- Clamping Force: 5,500 metric tons, 5,000 metric tons
- Theoretical Injection Volume: 13,200 cm³ (equivalent to 11.2 kg when using PP)*1
- Machine length: 16 m (5500emIII)

*1 : Converted using automotive-grade polypropylene



Figure 1. External View of the 5500emIII

Contact

If you have any questions regarding this content, please click on " [CONTACT](#) " in the upper right corner of our website below.

UBE Machinery Corporation Website address: <https://www.ubemachinery.co.jp/english/>