

MQ Autonomous Agritech to Unveil Next-Generation M200 Autonomous Sprayer at FIRA USA 2024

Woodlands, CA – October 2024 – MQ Autonomous Agritech will unveil the next-generation M200 Electric Autonomous Sprayer at FIRA USA 2024, happening from October 22-24 in Woodlands, CA. Built to **transform** agricultural practices, the M200 offers important upgrades in safety, performance, and versatility, advancing autonomous agricultural technology.

The M200 is an eco-friendly autonomous agricultural robot designed to address orchard and vineyard plant protection challenges while reducing human exposure to pesticides. It is developed based on MQ's commitment to innovation and sustainable farming.

Advanced Design, Practical Fit

The M200's compact **Integrated Blow Molded Body (IBMB)** features a lightweight, streamlined structure that minimizes drag and reduces contact with branches, leaves, and fruit. Its enclosed design allows for smooth movement through orchards.

Efficient Spraying, Lower Costs

The M200 is equipped with a **high-efficiency brushless motor** and **Carbon Fibre Reinforced Plastics (CFRP)** dual-blade fan, improving airflow and lowering drag. A high-pressure ceramic plunger pump ensures precise atomization and spray accuracy, cutting pesticide use by 30%-50% compared to traditional methods.

Safety Features Enhanced

Safety features have been significantly enhanced in the M200. It includes **power-off braking** and a front bumper for collision prevention, with optional **radar sensors** for added safety. Real-time self-diagnostics track equipment status, while the handheld remote control ensures operators can maintain a safe distance from pesticides.

Durable Materials, Built for Longevity

The M200 utilizes **HDPE materials** for enhanced corrosion resistance and durability. Its stainless-steel chassis, combined with laser welding, provides reliable strength. High-strength composite rubber tracks offer better wear resistance and handle rough terrain with ease.

Compact and Powerful

The M200's optimized layout reduces weight and lowers ground pressure, making it suitable for challenging environments. Its **dual-motor differential drive system** ensures reliable performance on muddy, steep, or uneven terrain.

All-Electric Power, Environmentally Friendly

The M200's **lithium battery module** offers quick charging and extended operational range. The **power management system** helps extend battery life, while the sprayer operates quietly and with zero emissions.

Autonomous Operations and Monitoring

With a **multi-frequency navigation module** and centimeter-level RTK positioning, the M200 offers accurate autonomous operation. For offline environments, an optional portable base station provides positioning over a 10 km range. Real-time HD image transmission and data logging make orchard management more efficient.

User-Friendly Operation and Maintenance

The M200's **human-machine interaction system** simplifies operation, even for first-time users. Its design is easy to clean and maintain, and the system alerts operators when maintenance is required.

Modular Design, Flexible Options

The M200's modular structure supports functional upgrades, including **mowing, transportation, chassis elevation**, and boom modifications. Core components can be quickly replaced to minimize downtime.

We look forward to seeing you at FIRA USA 2024! Be sure to stop by Exhibition Zone 1, booths 1-40 and R19 for live demonstrations of the M200 Autonomous Sprayer and see how it can transform your agricultural operations.

For more information, visit our website at www.mqagritech.com or email dglass@mqagritech.com.

