AgroSpectrum ASIA
Envisaging Future | Updating Present

China's XAG raises bar for agricultural automation

09 July 2026 | News

An integrated platform of AI drones, autonomous charging and robotic mowing positions the company for the next wave of smart farming



Chinese agricultural technology company XAG has introduced a new generation of autonomous farming solutions, signalling its ambition to move beyond standalone agricultural drones and build a fully integrated precision agriculture ecosystem. The company's latest X Series combines autonomous flight, intelligent crop protection, automated chemical mixing and battery management into a unified platform designed to reduce labour dependency and improve operational efficiency.

At the heart of the launch is the X150 Agricultural Drone, supported by the XA1 Agricultural Drone Airport and the LM1 Smart Liquid Mixing System. Together, the three products automate virtually every stage of crop protection—from mission planning and precision spraying to pesticide mixing, battery charging and equipment cleaning—eliminating many of the manual interventions that have traditionally limited large-scale drone adoption.

According to XAG Founder Peng Bin, the objective is to make agricultural automation both practical and commercially viable by simplifying complex workflows for farmers. Rather than treating crop protection as a labour-intensive seasonal activity, the company aims to transform it into a routine, technology-driven operation requiring minimal human supervision.

The new platform also introduces significant advances in autonomous navigation and operational safety. A next-generation 4D imaging radar, working alongside a newly developed vertical radar, enables all-weather environmental perception and delivers more than 90 per cent accuracy in identifying overhead power lines, one of the most critical safety challenges for agricultural drone operations.

Battery management, another longstanding operational bottleneck, has also been fully automated. XAG's new B18630 smart flash battery reduces charging time to just 2.5 minutes for a rapid recharge and 3.5 minutes for a full charge, while offering a

lifecycle of approximately 4,000 charging cycles. The accompanying charging system has also been engineered to support varying three-phase voltage standards across international markets, enabling wider global deployment.

The company has extended automation to chemical preparation as well. The LM1 Smart Liquid Mixing System automatically formulates and dispenses crop-protection solutions based on pre-programmed prescriptions, while an integrated one-touch cleaning mechanism flushes tanks, pipes and nozzles after every operation to minimise clogging, corrosion and chemical cross-contamination.

Beyond aerial applications, XAG also expanded its ground robotics portfolio with the launch of the RM80 unmanned mower. Designed for orchards, plantations and field maintenance, the lightweight electric robot can navigate slopes of up to 30 per cent, travel at speeds of 1.5 metres per second and cover between 0.33 and 0.53 hectares per hour in orchard environments. Equipped with a dual-battery system, the machine delivers up to 40 minutes of continuous operation on a single charge.

The product launches come as XAG continues to strengthen its international business. In 2025, the company reported revenue exceeding 1.166 billion yuan, with overseas operations contributing 419 million yuan—an increase of 13 per cent over the previous year. International markets now account for 36 per cent of total revenue, reflecting the company's expanding presence across nearly 70 countries and regions.

The latest launches underscore a broader shift within the global agtech industry, where manufacturers are moving beyond individual smart machines to integrated autonomous farming systems. As labour shortages, input costs and precision farming requirements intensify worldwide, end-to-end automation is emerging as the next competitive battleground in agricultural mechanisation.