

PRESS RELEASE

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Next-Gen KFAST Is here: Kubota's smarter, faster autonomous sprayer for specialty crops



Kubota will unveil the latest evolution of KFAST at Agritechnica 2025, a fully autonomous sprayer developed to transform specialty crop farming. Designed for orchards and plantations, KFAST combines precision spraying, intelligent navigation and sustainable operation to meet the evolving needs of modern agriculture.

Across Europe, specialty crop growers face increasing pressure from labour shortages, rising costs and stricter environmental regulations. Spraying remains one of the most time-consuming tractor operations, demanding precision, safety and efficiency. Producers of citrus, olives, nuts and other high-value crops require solutions that reduce dependency on manual labour, minimise chemical use and ensure consistent treatment across large and often fragmented plots.

KFAST has been engineered to address these challenges directly. The autonomous sprayer delivers reliable, high-precision performance with minimal human intervention, allowing one operator to manage several units simultaneously. Powered by a V3800-TIE5 diesel engine and equipped with four-wheel drive and steering, KFAST navigates orchards and plantations with ease. Its AGC Navigation System, combining RTK GPS and LiDAR technology, ensures accurate path following even on slopes of up to ten degrees.



The machine's airblast sprayer includes a 2,000-litre tank, 160 litre-per-minute pump and 26 double nozzles, providing high-volume coverage with reduced drift. Integrated H3O technology automatically adjusts dosage using ultrasonic tree detection, reducing pesticide use by up to 25 percent and drift by 48 percent.

KFAST operates autonomously from start to finish. Field boundaries, inter-row spacing and headlands are defined digitally, after which spraying parameters and treatment conditions are set. The machine then executes the mission independently while recording all data through the Specialty Crops Platform, ensuring complete traceability and compliance with sustainability standards.

Safety has been central to KFAST's design. LiDAR sensors detect obstacles and guide the vehicle along alternate paths when needed, while bumper systems trigger immediate stops on contact. Safencing® technology confines operation within pre-defined boundaries, and remote monitoring allows operators to supervise multiple units from a central control hub. Together, these systems create a comprehensive safety framework that protects both operators and crops.



KFAST delivers significant benefits for specialty crop growers. It improves labour efficiency, ensures uniform coverage, reduces chemical input and drift, and offers full digital traceability of all treatments. The system operates effectively across varied terrain and plot layouts, making it particularly well-suited for large orchards and plantations exceeding 100 hectares in countries such as Spain, France, Italy and Portugal.

Following successful field tests in Spain and Portugal between July and December 2025, Kubota plans a limited commercial launch in mid-2026, with full European availability scheduled for early 2027. The introduction of KFAST marks another milestone in Kubota's commitment to providing farmers with intelligent, sustainable solutions that enhance productivity and environmental performance. With KFAST, the future of orchard spraying is already taking shape.

About Kubota

Kubota has been a leading manufacturer of agricultural equipment, construction equipment, lawn mowers and Industrial Engines since 1890. With its global Headquarters in Osaka Japan, offices in more than 120 countries, and more than 55,000 employees in North America, Europe and Asia. Although machinery equipment is its main products line, Kubota also produces a wide range of products such as city water purification systems, irrigation systems, piping systems, roof and home construction, and large underground valves.

Our Mission

Our Brand Statement, "For Earth, For Life," speaks to our commitment to the conservation of the environment while aiding the production of food and water supplies, which are vital to meet the needs of our society, as the world's population continues to grow. This mission is accomplished every time a Kubota tractor harvests the land to produce food or when our construction equipment excavates to transport water or provide shelter. For more information on Kubota, please visit www.kubota-eu.com or www.kubota.com.

For Earth, For Life



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