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PRESS RELEASE

New generation of trailed sprayers

KARAN

KARAN: the efficient, high-capacity sprayer

*The KARAN trailed sprayer offers tank capacities of **4500, 5200, 6000 & 8000 litres**.
It is equipped with steel and aluminium booms ranging from **18 to 45 metres**.*



KARAN: the efficient sprayer!

Reduction in the number of optimal days for fieldwork, new environmental challenges, reduction in available labour. All these factors demand a highly efficient sprayer. Today, KUHN introduces a new-generation sprayer that is performant, comfortable, durable, and designed to provide optimal crop protection: KARAN.

The design and testing of this advanced sprayer took place over four years. Farmers and contractors from across Europe were directly involved throughout the product development process. Their feedback was carefully considered to shape a machine that truly meets the needs of its future users.

With KARAN, KUHN offers a complete solution tailored to the demands of medium to large farms and agricultural contractors.

KARAN will be available in three levels of finish, allowing customers to choose the sprayer that best fits their needs, from the simplest operation to the most advanced features.



Maximum performance

With KARAN, every stage of the spraying process (filling, spraying, and rinsing) has been optimised for peak performance. For instance, the **AUTOSET** solution system, will enable tank filling at **900 L/min** and spraying up to **500 L/min**. Two 360° rotating nozzles ensure fast and thorough cleaning of the main tank.

This new KUHN sprayer can operate at speeds of up to **25 km/h**, made possible by the new **EAGLE** smart contour control system. This advanced technology package automatically adjusts and actively controls the boom, even under changing crop conditions or varying types of terrain, situations frequently encountered during spraying operations. Highly responsive, the EAGLE system can operate as close as possible to the target to be sprayed (**from 30 cm height**). As a result, application height is consistently maintained under these variable conditions, even at high speeds, improving spray accuracy (overlap, drift, etc.) and delivering outstanding driving comfort in the field.



1. KARAN: A MACHINE DESIGNED FOR MAXIMUM PERFORMANCE

Protection: a key concept in spraying

Crop protection is the main task of a sprayer. The possibility to equip KARAN with the **AUTOSPRAY** system, based on PWM technology and marketed by KUHN since 2019, is a natural choice. This cutting-edge system delivers exceptional spraying precision, with features such as independent nozzle control, compensation in curves, and the ability to maintain consistent droplet size across a wide speed range.

A new range of aluminum booms, named **XEA3**, will feature nozzle spacings of 50 cm or 25 cm. It will offer enhanced drift control, thereby allowing the spray to reach its target with even greater precision.

Soil protection is also a priority for this new machine. Soil compaction is minimised thanks to the sprayer's **reduced weight** (5,690 kg for a KARAN 6000 POWER with a 36 m boom), its **high-performance TRACK-MATIC steering axle** and a **complete range of VF tyres**.

Operator safety has not been overlooked either. KARAN comes standard with a next-generation **induction hopper**, designed to combine simplicity, ergonomics, and performance. It can absorb up to 220 L/min of liquid product, minimising the operator's exposure time. For even greater protection, the hopper can be pre-equipped for **CTS** (Closed Transfer System) technology, allowing the contents of a container to be transferred directly into the sprayer tank without opening the container therefore without direct contact with the operator.



Ensuring user comfort for every operation

KARAN is designed for daily ease of use. It features a **centred vertical hydraulic stand**, that simplifies the hitching process with the tractor. An optional **hydraulic pump drive** is available, offering a flexible and comfortable solution that notably allows easy coupling and simplified driving.

The KARAN POWER version can also be equipped with the **DILUSET** solution system with automated management of filling, agitation, rinsing and assisted sequential dilution. This significantly reduces the risk of operator error and therefore lowers stress during use.

Ergonomics have been carefully designed to ensure the system is as **intuitive** as possible. All displays whether on the screens in the cab or on the machine have been specifically developed for KARAN. They offer a clear, intuitive interface and provide quick access to all essential information.

KARAN is also exceptionally easy to handle. Its design makes optimal use of available space, resulting in a **compact overall length**: only **5 metres** separate the hitch from the axle on KARAN 5200 and 6000 models. Additionally, its **TRACK-MATIC steering axle** offers a steering angle of up to **28°**. This gives it remarkable agility, making manoeuvres easier even in the tightest fields and helping to minimise crop damage.

A durable sprayer, ready to perform at all times

KARAN features several innovative and patented components. Maintenance of the pump, typically a time-consuming task due to disassembly, is now simplified with an **integrated winch** that allows removal in just **15 minutes**. Additionally, the machine's main tank is equipped with a **removable sump and tank roof**, which facilitate access to internal components without the need to enter the tank when required. Access to many parts of the machine is designed to make daily and periodic maintenance easier. Moreover, the meticulous finish, careful selection of every component, and **multiple built-in protections** demonstrate KUHN's commitment to delivering a machine that combines premium quality with durability.



2. THE DILUSET SOLUTION SYSTEM ASSISTS THE OPERATOR THROUGHOUT EVERY STAGE OF THE PROCESS



3. WITH ITS COMPACT DIMENSIONS AND FEATURES (ESPECIALLY THE STEERING AXLE), KARAN IS AN EXCEPTIONALLY MANOEUVRABLE SPRAYER



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→ In summary, **KARAN is an efficient and versatile sprayer, designed to meet both current and future challenges in crop protection.** Initially, KARAN will be available in its POWER version, equipped with MANUSET & DILUSET and featuring booms ranging from 24 to 39 m with 50 cm nozzle spacing. Later, two additional versions, an essential model and a high-end model, will be added to the catalogue. These will include the XEA3 boom and the I-SPRAY spot spraying technology with cameras. KARAN is set to become one of the most precise and innovative sprayers, driving the future of agriculture forward.