



Trailed sprayer
KARAN

PRODUCT INFORMATION



**EFFICIENT
SPRAYING**

KARAN: The Efficient sprayer

In an agricultural context with fewer favourable days for fieldwork and a growing shortage of labour, every minute matters. Choosing the KARAN sprayer means choosing uncompromising efficiency. Designed to meet the highest standards, KARAN combines performance, comfort, protection (for crops, soil, and the operator) and sustainability.

KARAN 4500 | 5200 | 6000

KARAN AT A GLANCE

Clean water tank of 800 L
Safe and effective rinsing

**Main tank of 4500 L,
5200 L or 6000 L**
High level of autonomy



MANUSET or DILUSET operating station
Peace of mind

Aluminium booms with 2 and 3 arms from 24 to 39 m
High work rate and versatility



EAGLE ground tracking
Operation up to 25 km/h, 30 cm above the target



AUTOSPRAY circulation
Precision application



TRACK-MATIC steering axle
Crop protection and manoeuvrability

Mechanical or hydropneumatic suspension
Comfort in the field and on the road



PERFORMANCE BUILT FOR YOUR CROPS

EAGLE: the boom up to your expectations

With the EAGLE contour control system, KARAN can operate at speeds of up to 25 km/h. EAGLE actively controls the boom in changing crop conditions and varying types of terrain. The system can operate as close as possible to the target to be sprayed (from 30 cm height).



Optimised preparation time

The KARAN sprayer filling system offers a high flowrate of up to 550 L/min, enabling a 6000 L tank to be filled in just 10 minutes. The incorporation of plant protection products is performed at up to 220 L/min, ensuring rapid and efficient preparation. The overall performance of the system is supported by operator-focused ergonomics.



Quick and efficient rinsing

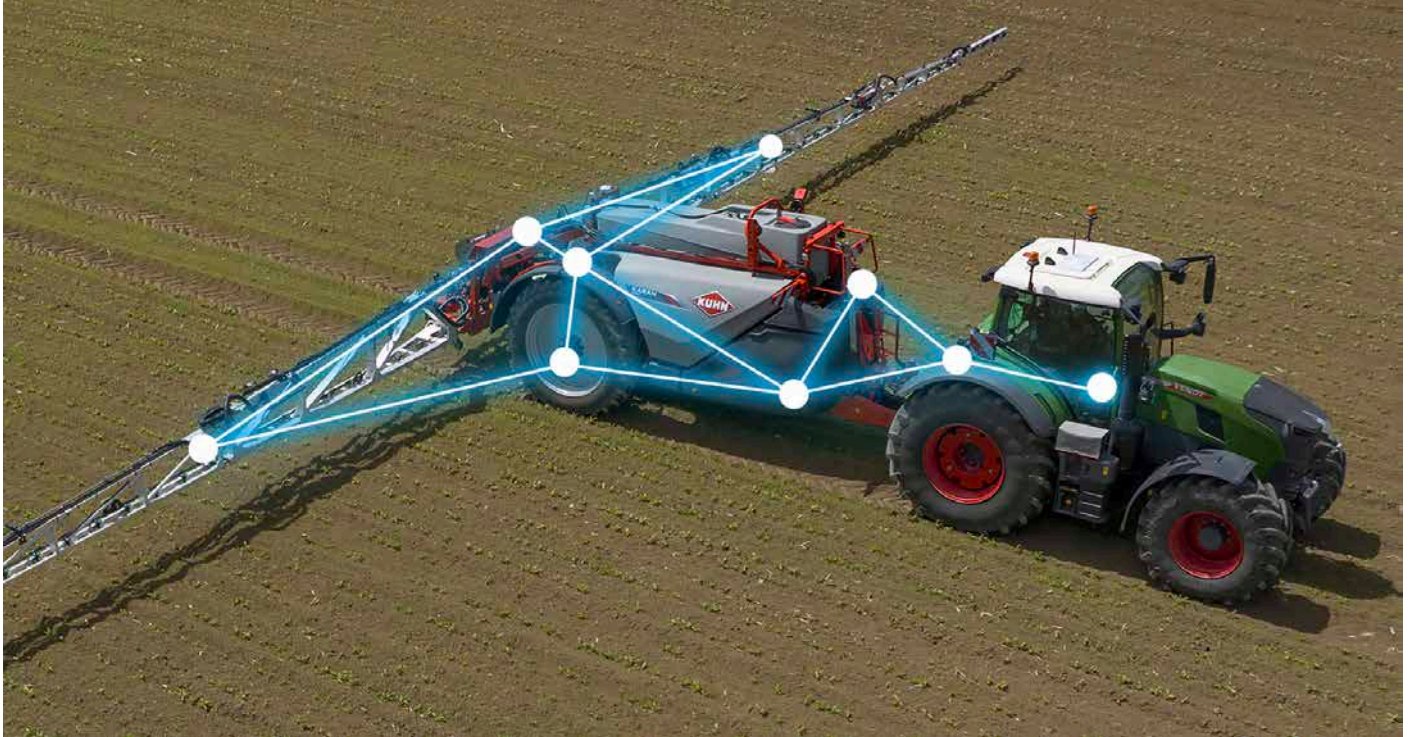
In spraying operations, effective rinsing is essential to ensure the quality of subsequent applications. KARAN features an 800 L clean water tank on all models of the range, as well as 360° gyrowashers integrated into the main tank. With the DILUSET system, the rinsing cycle is fully automated. Sequential dilution process is also available, ensuring consistent results and complete peace of mind for the operator.



DESIGNED FOR OPERATOR COMFORT

Enhanced comfort through automated task management

Automated management of key functions ensures intuitive and stress-free operation, reducing the operator's workload. Each step of the spraying process is enhanced by smart automation through advanced systems such as DILUSET, EAGLE ground tracking, AUTOSPRAY circulation or the TRACK MATIC steering axle.



An ergonomic operator's station

The loading station is designed for intuitive and comfortable operation, with a minimal number of valves and a smart layout of key components, etc.

Choosing either of the two available operating station versions provides a solution that combines simplicity, efficiency, and daily comfort.

With the DILUSET system, the MT30 terminal provides easy control over filling, agitation, rinsing, and dilution.

Manoeuvrability and stability

KARAN is exceptionally easy to handle. Its design makes optimal use of available space, resulting in a compact overall length. The KARAN sprayer is equipped with a standard robust mechanical leaf-spring suspension, known for its durability and minimal maintenance requirements. Optionally, it can be equipped with a hydropneumatic suspension with automatic tank load compensation, providing superior driving comfort.



PROTECTING CROPS, SOIL, AND THE OPERATOR

AUTOSPRAY spraying system

Using PWM (Pulse Width Modulation) technology, AUTOSPRAY circulation controls droplet size by modulating nozzle opening times with micro-pulses. This maintains constant pressure, ensuring uniform droplet size regardless of travel speed. The AUTOSPRAY technology enhances spraying accuracy through several key features: individual nozzle control, application rate modulation or automatic compensation on turns.



TRACK MATIC: ensuring smart path tracking

The KARAN sprayer can be equipped with the TRACK MATIC steering axle, offering a steering angle of up to 28°. This technology significantly reduces crop damage at headlands while ensuring exceptional manoeuvrability, useful in narrow or complex fields.

CTS pre-equipment for operator safety

KARAN is pre-equipped to integrate CTS (Closed Transfer System) technology, which allows the contents of a container to be transferred directly into the tank without opening it. This system significantly reduces operator exposure and minimises environmental risks from spills during crop protection product incorporation.



KARAN: A SUSTAINABLE SPRAYER



Quick component access

Optimised access to key areas makes daily and periodic maintenance simpler and faster.

KARAN features a patented innovative system that allows the operator to remove a pump in under 5 minutes, significantly reducing downtime. An innovative removable tank sump and roof enables maintenance of internal tank components without entering the tank.

When quality meets lasting sustainability

The KARAN sprayer combines strength and durability through the use of aluminium booms, a chassis inspired by heavy-duty truck design, and advanced in-house electronics. Its industrial-grade quality stands out through extensive protective bodywork, carefully selected components and meticulous finishing, ensuring reliability and durability.

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Technical specifications

Trailed sprayer

	KARAN	
Booms	TR4 (2 arms)	RHA3 (3 arms)
Boom width (m)	24 to 30	27 to 39
Boom material	Aluminium	
Ground tracking system	EAGLE (2 or 4 sensors) / EAGLE PRO (4 or 6 sensors)	
Rated tank capacity (L)	4,500 – 5,200 – 6,000	
Actual tank capacity (L)	4,725 – 5,460 – 6,300	
Rinsing tank capacity (L)	800	
Tank material	Polyethylene	
Pumps	Piston-diaphragm PM280 / PM560	
Pump flow rate (l/min)	280 or 560	
Max. pressure (bar)	8	
Circulation	Hydraulic Continuous Circulation (CCH) / Electric Continuous Circulation (CCE) / MULTISPRAY DUO / AUTOSPRAY	
Control system	MANUSET or DILUSET	
Axle suspension	Mechanical or Hydropneumatic	
Tracks (m)	From 1.80 to 2.25	
Hitch-to-axle length (m)	4.50 (KARAN 4,500) / 5.00 (KARAN 5,200 – KARAN 6,000)	
Max. overall length (m)	8.25 (KARAN 6,000 - 30 m)	7.80 (KARAN 6,000 - 36 m)
Overall width (m)	2.55	
Maximum transport height (m)	3.90 (KARAN 6,000 - 30 m)	3.65 (KARAN 6,000 - 36 m)
Unladen weight (kg) (KARAN 4,500 min. – KARAN 6,000 max.)	4,200 – 6,500	
Tyres: width / max. diameter (mm)	270 to 710 / 2,050	

◆ as standard

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