Precision Fertilizer Spreader

ADVANCE™ .1 SERIES

PRODUCT INFORMATION

The KUHN Advance™ .1 Series precision fertilizer spreaders offer a dynamic combination of precise application, high capacity, and commercial-grade durability in a trailed fertilizer spreader. High-precision fertilizer spreading is handled by the proven Axis® PowerPack, with industry-leading features such as EMC rate control and Vari-Spread section control. For higher-volume applications, the machine can quickly be fitted with the optional Universal PowerPack. Two available hopper sizes carry large volumes of product to reduce stops for reloading, even when applying at high rates. The main hopper is constructed from 304 stainless steel with a belt-over-chain conveyor for long life in demanding commercial applications. Multiple tire options, an adjustable axle, and AEF-certified ISOBUS compatibility allow the Advance .1 Series to adapt to nearly any operation and existing precision agriculture systems.

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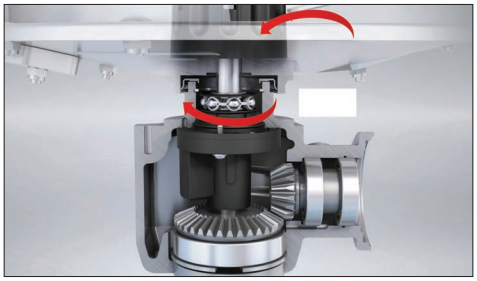
Axis® PowerPack

The Advance uses the proven KUHN technology of the Axis PowerPack, with industry-leading features such as EMC rate control, Vari-Spread section control, Opti-Point headland control, and dual-mode border control. These technologies provide high precision spreading of fertilizer and seeds, offering fertilizer cost savings and environmental benefits. For higher-volume applications, the machine can quickly be fitted with the optional Universal PowerPack.



Consistent Rate Control

Electronic Mass Flow Control, or EMC, works by calculating the relationship between the amount of product flowing through the metering outlets and the resistance that amount creates on the rotating disc. The software continuously “weighs” the product as it reaches the discs and adjusts almost instantaneously to maintain the targeted application rate. This technology keeps the difference between the set rate and actual as-applied rate to 2% or lower, compared to 5-10% error on traditional systems.

Stainless Steel Contruction

The main hopper is constructed from 304 stainless steel for outstanding corrosion resistance. Wires and hoses are routed through the enclosed horizonal side channels to prevent water and fertilizer infiltration and create a clean design. The belt-over-chain conveyor runs “uphill” to keep the majority of the load toward the front of the machine.

Technical specifications

	ADVANCE™ 300.1	ADVANCE™ 350.1
Maximum hopper payload	27,000 lbs (12,247 kg)	31,500 lbs (14,288 kg)
Basic capacity	300 ft³ (8.5 m³)	350 ft³ (9.9 m³)
Drive system	Self-contained PTO-driven hydraulic system	
Filling height	10'10" (3.3 m)	
Axle spacing	Adjustable 80" – 90" – 120" (2.0 – 2.3 – 3.0 m)	
Hopper length	11'6" (3.5 m)	13' (4.0 m)
Total height	11'10" (3.6 m)	
Conveyor belt width and type	32" (81 cm) #4 Belt-over-chain	
Axis PowerPack - spreading width	59' – 164' (18 – 50 m)	
Universal PowerPack - spreading width	Up to 59' (18 m)	
Tires	LSW480/70R54	
Application rate control	EMC technology	
ISOBUS compatible	Standard	
Section control	Vari-Spread Pro	
Weigh scales	Standard	
Hopper cover	Roll tarp (standard)	
PTO type	1 3/4" 20-spline, CV PTO	
Minimum power requirement	180 hp (134 kW)	220 hp (164 kW)
Empty machine net weight, approx.	11,000 lbs (4,990 kg)	12,000 lbs (5,443 kg)
Hopper material	304 stainless steel	

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