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Tracked Self-Propelled Air-Assisted Sprayer (3WTE-120L-B / 3WTE-280L-B)

Product Description

An intelligent plant protection robot series covering different orchard scenarios.

This product series is designed for crop protection management in orchard economic crops, covering a range of needs from flexible, light operations to high-capacity continuous operations. The 3WTE-120L-B is better suited for small to medium-sized orchards, narrow row spacing, and scenarios requiring flexible operation; the 3WTE-280L-B model is designed for more intensive crop protection tasks with a larger coverage area.

The series balances complex terrain adaptability, intelligent spraying capabilities, and efficient daily management needs. The tracked chassis provides better off-road capability in complex orchard terrain while reducing disturbance to the soil surface and crop root zones. The option to attach towed mowing modules (inter-row, intra-row, flail type) makes it even more suitable for daily plant protection and refined management in modern orchards.

Application Scenarios:

Vineyards, orchards, hilly economic crop planting areas, and daily plant protection and maintenance operations.



Product Features

- ✓ 120 L / 280 L dual configurations, covering different operational intensities.
- ✓ Supports autonomous driving and multi-machine collaborative operation
- ✓ Track drive adapts to hilly and complex terrains
- ✓ Pure electric drive, supports quick battery swapping, reducing downtime
- ✓ Supports night operation for higher operational efficiency
- ✓ More uniform mist, more stable spray coverage

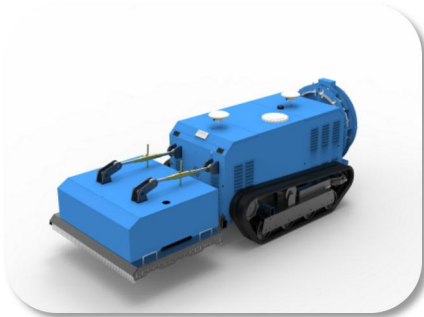
Weeding Module

The tracked self-propelled air-assisted sprayer combines high-efficiency mowing with precision spraying capabilities.

It offers three mowing modes—between-row mowing, in-row mowing, and hammer mowing—available as optional configurations to fully meet a wide range of weed control needs.



Swing Blade Weeding



Inter-row Weeding



Intra-row Weeding

Product Parameters

Item	Unit	Specification	
Model	/	3WTE-120L-B	3WTE-280L-B
Overall Dimensions (L × W × H)	in. (mm)	56.3×37.4×33.1 (1430×950×840)±5%	70.9×41.3×39.4 (1800×1050×1000)±5%
Weight	lbs. (kg)	794 (360)	838 (380)
Operating Pressure	MPa	2.0	2.0
Drive Type	/	Track Drive	Track Drive
Steering Type	/	Differential Steering	Differential Steering

Horizontal Range / Spray Width	in. (mm)	629.9 (16000) [Double-Sided]	629.9 (16000) [Double-Sided]
Minimum Ground Clearance	in. (mm)	5.9 (150)	7.1 (180)
Gradeability	deg. (%)	30(57.7)	30(57.7)
Track Width	in. (mm)	5.9 (150)	5.9 (150)
Travel Motor Power	hp (kW)	1.3×2 (1.0×2)	2.0×2(1.5×2)
Fan Power	hp (kW)	2.0 (1.5)	1.3 (1.0)
Water Pump Power	hp (kW)	1.5 (1.1)	1.5 (1.1)
Motor Speed	r/min	3000	3000
Spray Tank Material	/	PE	PE
Spray Tank Capacity	gal.(L)	31.7 (120)	74.0 (280)
Impeller Material	/	Nylon Blades	Nylon Blades
Impeller Diameter	in. (mm)	19.7 (500)	18.9 (480)
Battery Type	/	Lithium Battery	Lithium Battery
Battery Standard Voltage	V	48	48
Built-in Quantity	pcs	2	2

Application Scenarios



Orchard Operations



Hilly Terrain



Vineyard Operations