

ARA™ 620 · AI-Powered UHP Sprayer

Equipped with Plant-by-Plant™ AI, ARA™ 620 Ultra-High Precision Sprayer applies crop protection products only where needed. It's the only smart sprayer that safely uses non-selective herbicides, reducing input and labor costs while boosting yield.





Product Flexibility

Plant-by-Plant™ Al offers the ability to apply non-selective herbicides with an adjustable safety zone.



Increased Yields

By leaving the crops untouched, our technology helps achieve healthier and more abundant crops.



Boost Your Bottom Line

Reduce crop protection use by up to 95% and save on manual labor costs.



Fast ROI on your Investment

See returns in just 2 to 4 years, depending on farm size.

A Revolution in Precision Agriculture

With a working width of 6.20 meters and a driving speed of up to 7.2 km/h, ARA™ 620, the Ultra-High Precision Sprayer can cover up to 4 hectares per hour.



Increased Spraying Efficiency

ARA™ achieves a 6 × 6 cm spot spray. This precision allows you to come closer to the crop and hit more weeds, even between the crops, without harming them.



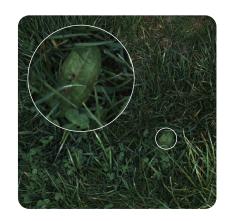
Minimal Recognition Size



Weeds (Mono & Dicots) ≥ 2 mm



Crop ≥2cm



Dock | Thistle ≥ 5 cm

Plant-by-Plant™ Al Technology

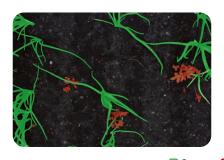
1. Sense



Vision Box

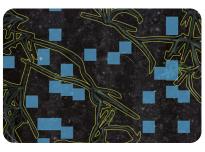
Plant-by-Plant™ Al combines Al and six advanced camera modules, with 3D and RGB cameras ensuring a uniform image for instant data analysis.

2. Decide



Plant-by-Plant™ Al analyzes every pixel to distinguish crops from weeds with accuracy, ensuring each spray targets only what's necessary.

3. Act



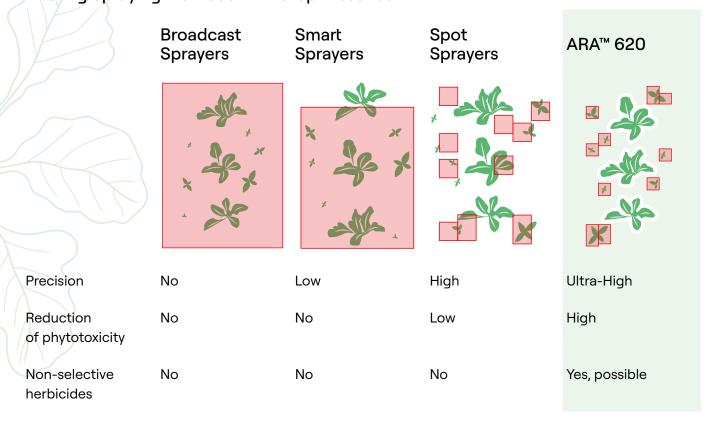
Target weed

Treated area 🛑 Saf

Safety zone

With protective zones, Plantby-Plant™ Al enables safe use of non-selective products, maximizing weed control, minimizing crop stress, and boosting yield.

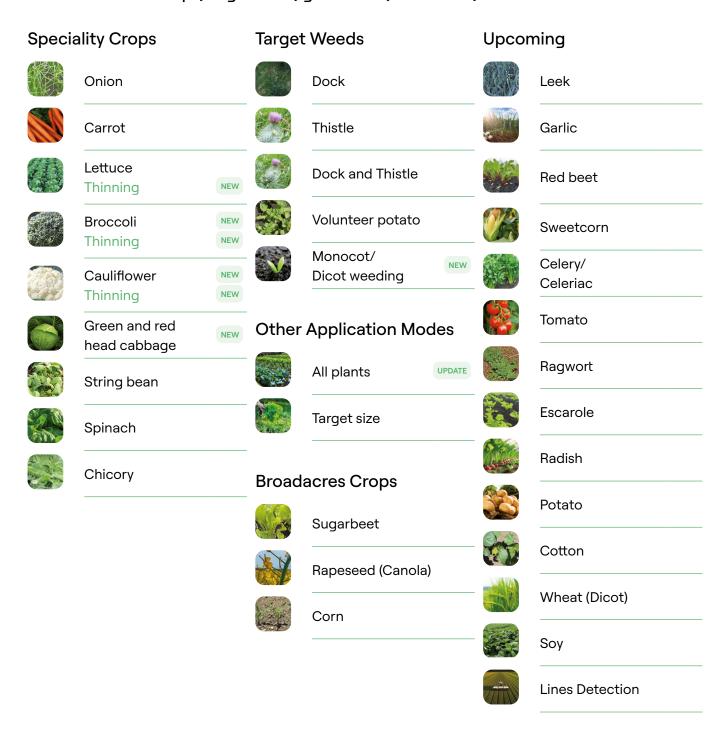
Existing Spraying Methods with Crop Presence



ARA™, the Ultra-High Precision Sprayer sets the benchmark for precision: plant by plant treatment only where it's needed. The result? Unmatched performance with drastically reduced product use and costs, while maximizing yield.

Ecorobotix Crop Algorithms

Precise spraying of herbicides, fungicides, insecticides, biostimulants, and liquid fertilizers in row crops, vegetables, grasslands, and lawns, for monocots and dicots.



Our upcoming algorithms are in the final stages of development and available for free trial during this period.

Ecorobotix Crop Care Procedures



Angus HILL Agronomist and Farm Support

We have done over 1750 ha of onions with ARA™ with savings up to 96% on raw chemical input. Due to reduced phytotoxic crop impact, we would expect yield benefits of at least 10-15%.

Crop-Specific Modes



Application of selective herbicides on weeds even close to crops.



Application of nonselective herbicides with an adjustable safety zone.



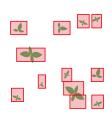
Application of fungicides, insecticides, fertilizers and biostimulants on the crop only.



Spray all but crop with an adjustable safety zone.

Universal Functions (Non Crop Specific)

Function All-Plants



For preplanting: herbicide application.



Application of fungicides, insecticides, fertilizers and biostimulants on allplants.

All-Plants Combined with Target Size



Size-based herbicide application.



Size-based application of fungicides, insecticides, fertilizers and biostimulants.

Thinning Algorithm

Application to remove excess plants and ensure ideal spacing and density.

e.g. 1

Thinning under normal conditions







e.g. 2

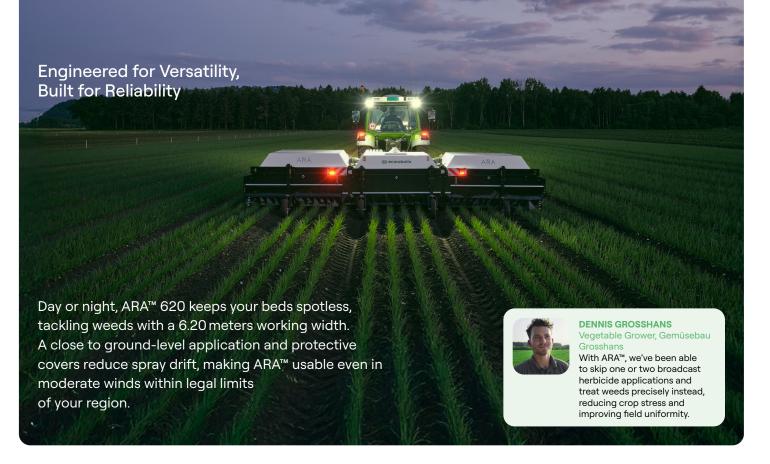
Thinning with multiple plant management (removing overlapping plants)











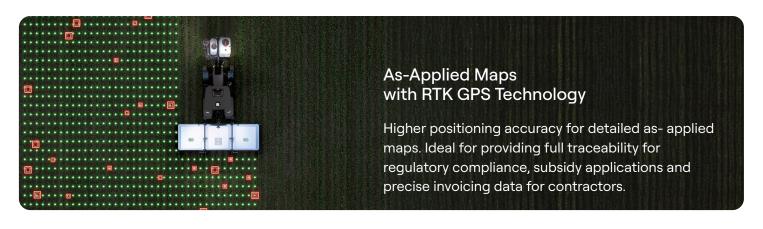


Just plug-in and go!

ARA™, the Ultra-High
Precision Sprayer
attaches to any tractor
and is controlled in a few
clicks via tablet. Select
the crop and treatment,
and ARA™ adjusts all
settings automatically
for speed and turns,
with dose control
ensuring stable spray
concentration.

All-in-One Cloud Platform

Take full control of your crop management with our cloud platform for UHP Technology. Real-time data, maps, planning, and fast support, all in one place.



Technical Data

Technical name	ARA™ 620 S G2 UHP Sprayer
Sprayer Dimensions	3 spraying modules
Length × Width × Height	Transport mode (closed): 2.74 m × 2.97 m × 3.20 m
	Working mode (opened): $2.74 \mathrm{m} \times 6.46 \mathrm{m} \times 1.26 \mathrm{m}$
	Wheel spacing: adjustable from 1.5 to 2 m
Spray Working Width	Adjustable up to 6.20 m
Spray Boom	156 high-precision spray nozzles spaced 4 cm apart
Weight Sprayer	1,200 kg
Weight Front Tank System	410 kg (empty) and 1,350 kg (full)
Front Tank System Volume	600 I water tank
	3001 mixture tank
Induction Hopper	The front tank is equipped with a 15 I induction hopper by
	default
Top Towing Speed	Up to 7.2 km/h
Tractor Connections	Hydraulic: min. 100 bar
	PTO: 3 kW max. (4 CV) of energy required
Area Output	Up to 4 hectares/hour, day and night
Efficiency	Up to 95% saving on plant protection products
	(depending on weed density)
Control and Configuration	Via the Ecorobotix UI App on a wireless tablet
RTK GPS	Improved machine positioning with a precision
	up to +/- 3 cm

Specifications for information purposes only, subject to change without prior notice.





Ecorobotix SA

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A local distributor is likely closer than you think. Get in touch to learn more!