ARA725

ecorobotix

AI-Powered UHP Sprayer

Powered by Plant-by-Plant AI™, this Ultra-High Precision Sprayer applies crop protection products only where needed, enabling the safe use of non-selective herbicides while reducing input and labor costs and supporting higher yields. Its new 24 ft (7.26 m) spray width is optimized for standard onion bed configurations in the Pacific Northwest, improving field efficiency and overall productivity.



Simulated product for illustration purposes. Final product may vary.

Flexibility of Crop Care Procedures

Plant-by-Plant AI™ offers capabilities like thinning, application of non-selective herbicides, and the use of an adjustable safety zone around the crop.

Increased Yields

By targeting spray on weeds, our technology helps achieve healthier and more abundant crops.

Boost Your Bottom Line

Reduce crop protection product use by up to 95%, save on manual labor costs, and see return on investment in as soon as one season.

Fast ROI on your Investment

See returns in as little as one crop season depending on farm size.

A Revolution in Precision Agriculture

With a working width of 24 feet (7.26 meters) and a driving speed of up to 4.5 mph (7.2 km/h), ARA725 Ultra-High Precision Sprayer can cover up to 12 acres (4.5 hectares) per hour.



Increased Spraying Efficiency

ARA™ achieves a 2.4 × 2.4 in (6 × 6 cm) spot spray. This precision allows you to target closer to the crop, even within the row, without causing harm.

ARA 2.4 × 2.4 in (6 × 6 cm)
true to size spray output

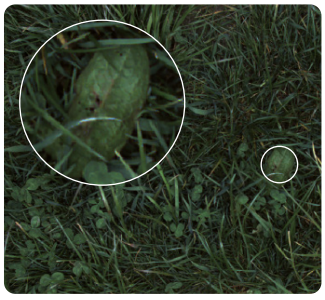
Minimum Recognition Size



Weeds (Mono & Dicots)
≥ 0.08 in (2 mm)



Crop
≥ 0.8 in (2 cm)

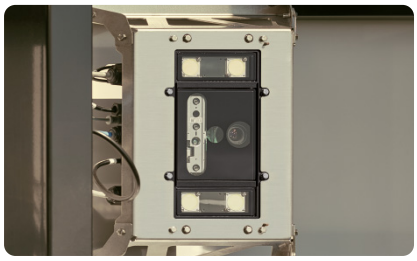


Dock | Thistle
≥ 2 in (5 cm)

Plant-by-Plant AI™ Technology

Plant-by-Plant AI™

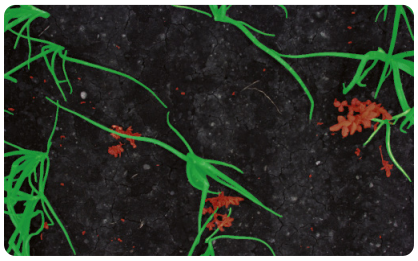
1. Sense



Vision Box

Plant-by-Plant AI™ combines AI and six advanced camera modules, with 3D and RGB detection, to ensure uniform imaging for instant data analysis.

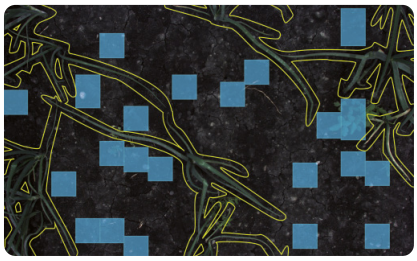
2. Decide



Crop Target weed

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

3. Act



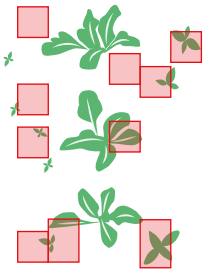
Treated area Safety zone

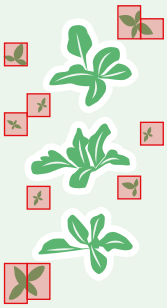
With protective zones, Plant-by-Plant AI™ enables safe use of non-selective products, maximizing weed control, minimizing crop stress, and boosting yield.

Alternative vs. Ultra-High Precision Spraying









	Broadcast Sprayers	Smart Sprayers	Spot Sprayers	ARA725
Precision	No	Low	High	Ultra-High
Minimize crop stress from herbicide exposure	No	No	Low	High
Non-selective herbicides	No	No	No	Yes, possible

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

Ecorobotix Crop Algorithms

Unlock precise spraying of herbicides, fungicides, insecticides, biostimulants, and liquid fertilizers in row crops, vegetables, grasslands, and turf, for monocots and dicots.

Specialty Crops


Onion


Carrot


Lettuce
Thinning


Broccoli
Thinning


Cauliflower
Thinning


Green and red head cabbage


String bean


Spinach


Chicory

Target Weeds


Dock


Thistle


Turf


Volunteer potato


Monocot/
Dicot weeding

Other Application Modes


All plants


Target size

Broadacre Crops


Sugar beet


Rapeseed (Canola)


Corn

Upcoming


Dock and Thistle


Leek


Garlic


Red beet


Sweetcorn


Celery/
Celeriac


Processing tomato


Ragwort


Escarole


Radish


Potato


Cotton


Wheat (Dicot)


Soy

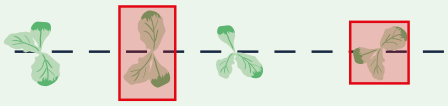

Lines detection

Our upcoming algorithms are in the final stages of development, free for trialling during this period.

Crop Care Procedures

Thinning Algorithm

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



Thinning under normal conditions



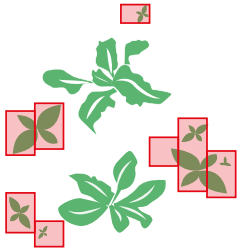
Thinning with multiple plant management (removing overlapping plants)



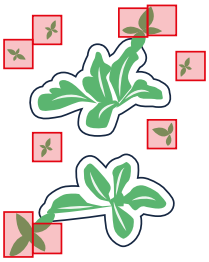
"I talk to growers every day who are tired of being at the mercy of labor availability during thinning season. ARA changes that equation entirely. One operator, consistent spacing, and the confidence that the right plant is kept every time — that's a game changer for lettuce operations of any size."

Katerina Lee, Crop Care Manager NA, Ecorobotix Inc. - USA

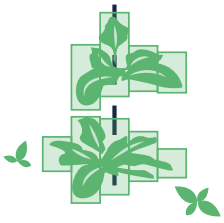
Crop-Specific Modes



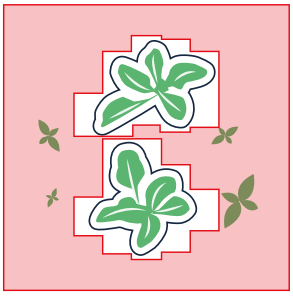
Application of selective herbicides **on weeds even close to crops.**



Application of non-selective herbicides **with an adjustable safety zone.**



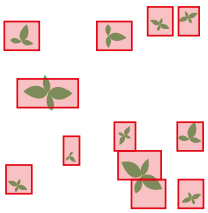
Application of fungicides, insecticides, fertilizers and biostimulants **on the crop only.**



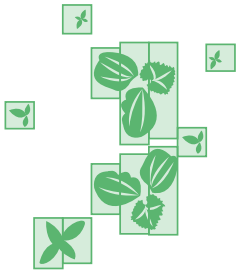
Spray all but crop **with an adjustable safety zone.**

Universal Functions (Non Crop Specific)

Function All-Plants

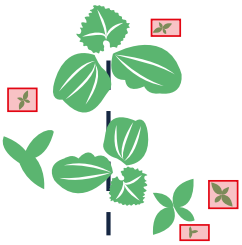


For preplanting: herbicide application.

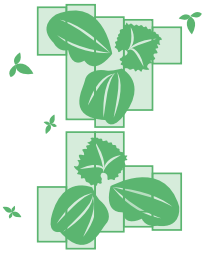


Application of fungicides, insecticides, fertilizers and biostimulants **on all-plants.**

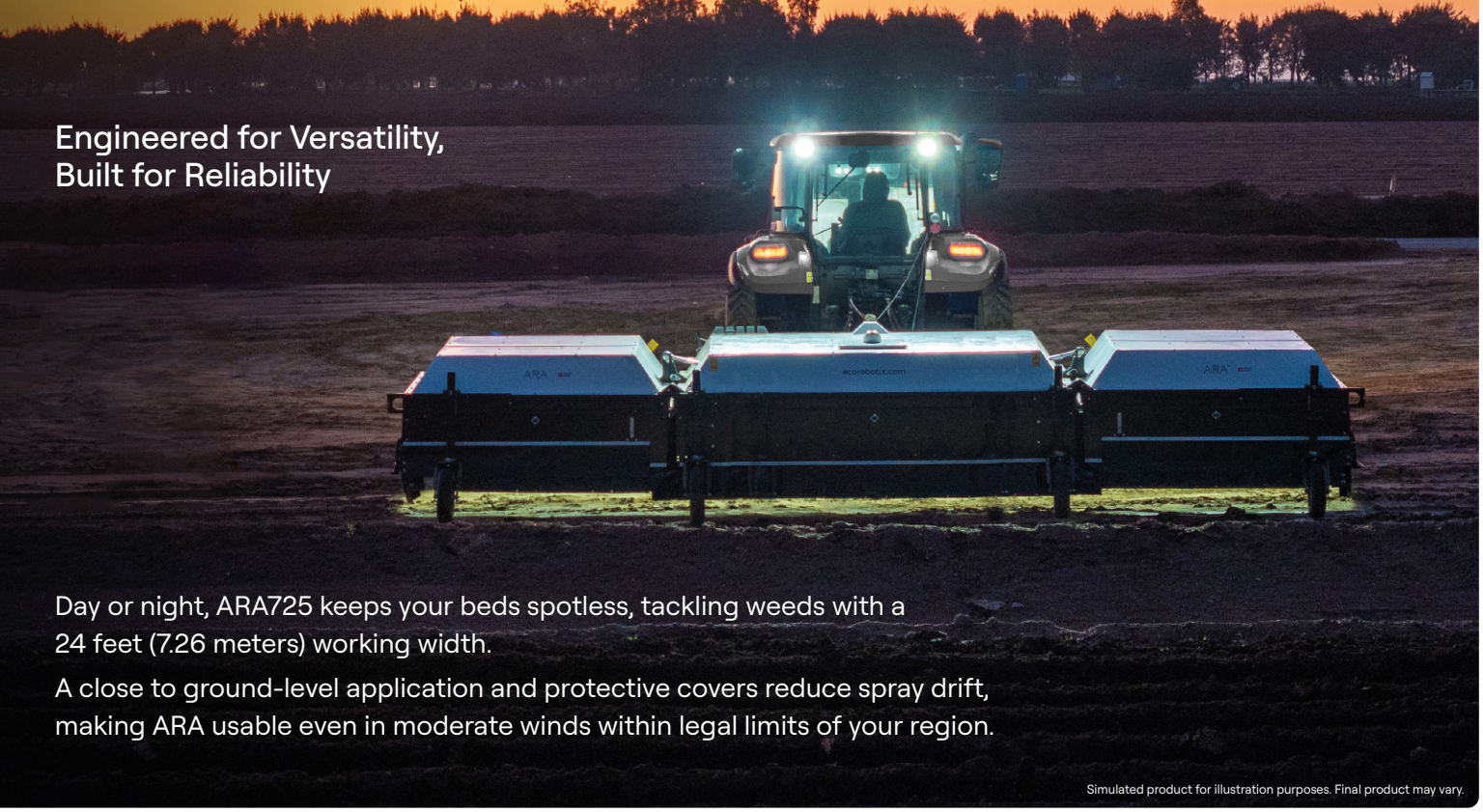
All-Plants Combined with Target Size



Size-based **herbicide** application.



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



Engineered for Versatility, Built for Reliability

Day or night, ARA725 keeps your beds spotless, tackling weeds with a 24 feet (7.26 meters) working width.

A close to ground-level application and protective covers reduce spray drift, making ARA usable even in moderate winds within legal limits of your region.

Simulated product for illustration purposes. Final product may vary.



"We sprayed 20 acres with a total of 60 gallons. Normally we would use about 1,000 gallons to cover the whole field. We used 1 ounce of active ingredient across the whole field where we usually would use 16 ounces. While using ARA, the onions had really good color and really good shape, totally unaffected by the spray."

Cody Anderson, L & L Ag Production, LLC, Onion Grower - USA

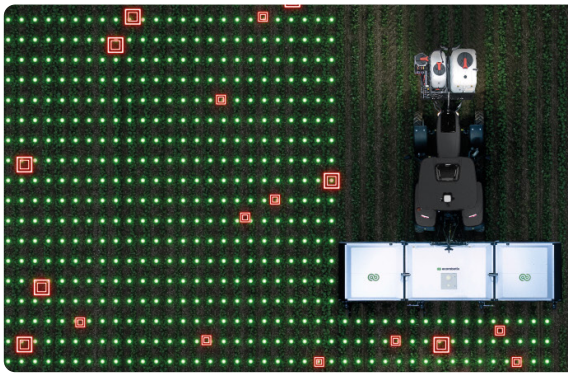
Simple set-up!

ARA Ultra-High Precision Sprayers attach to any tractor and are 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 easy-to-explore place.





As-Applied Maps with RTK GPS Technology

Higher positioning accuracy for detailed as-applied maps. Ideal for providing full traceability for regulatory compliance, subsidy applications and precise invoicing data for contractors.

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Technical Data

Technical Name	ARA725 S G2 UHP Sprayer
Dimensions	Length × Width × Height
Rear module during transport	9.07 ft × 13.12 ft × 10.65 ft (2.77 × 4.44 × 3.25 meters)
Rear module in operation	9.07 ft × 24.49 ft × 4.19 ft (2.77 × 7.46 × 1.28 meters)
Front tank system	6.16 ft × 4.89 ft × 5.35 ft (1.88 × 1.49 × 1.64 meters)
Working Width	Adjustable up to 24 ft (7.26 meters)
Variable Wheel Spacing	From 5.57 ft to 11.48 ft (1.70 to 3.50 meters)
Spray Boom	168 nozzles spaced 1.6 inches (4 cm) apart Automatic height adjustment
Dual-Tank System: 3 Components	
Fresh water tank	158.5 gal (600 liters)
Mixture tank	79 gal (300 liters)
Induction hopper	4 gal (15 liters)
Optional Fluidic Kit	Allows connection to compatible alternative tank systems.
Pump	19.8 gal (75 liters)
Weight	128 lbs (58.05 kg)
Dimensions	32 in. (81.28 cm) L × 21 in. (53.24 cm) W × 27 in. (68.58 cm) H
Weight	
Rear module	3300 lbs (1500 kg)
Front tank system	904 lbs (410 kg) curb weight
Tractor Requirements	
Rear power take-off	4 hp (3 kW) max. energy required
Front & rear 3 point hitch	Category 2
Front hydraulic flow rate	8 gal (30 liters)/minute
Productivity	Up to 12 acres/hour at 4.5 mph ground speed (Up to 5 ha/hour at 7.2 km/h ground speed)
Control and Setup	Via Ecorobotix UI App on a wireless tablet
Task Documentation	Recording of completed tasks and spray maps with RTK GPS antenna

Specifications for informational purposes only; subject to change without prior notice.





Dual-Tank Front System

ARA is supplied with a front-mounted water and product tank system. Its new induction hopper ensures safer, cleaner filling at ground level, with easier handling, reduced contact with crop protection products, and less risk of spills or fumes. Other tank configurations may be compatible thanks to our fluidic kit. Contact your local dealer for more information.

1. Front Tank System
   - Fresh Water Tank
   - \+ Mixture Tank
   - \+ Induction Hopper
2. Optional: Fluidic Kit
3. PTO
4. Hydraulic Power Unit
5. Spray Boom
6. RTK



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Certified B Corporation

SOLAR IMPULSE EFFICIENT SOLUTION SEPTEMBER 2024

A local dealer is likely closer than you think.

Get in touch to learn more!

ecorobotix.com/en-us/contact-us/

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