



ARA595 - 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. The pipe guider ensures reliable operation in irrigated fields.



Flexibility of Crop Care Procedures

Plant-by-Plant AI™ offers abilities like Thinning, the application of non-selective herbicides, and the use of 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%, save on manual labor costs, and see returns as little as one season.



Irrigation-Friendly Design

The ARA595 sprayer fits 80 inch beds with side sprinklers - particularly for CA + AZ regions.

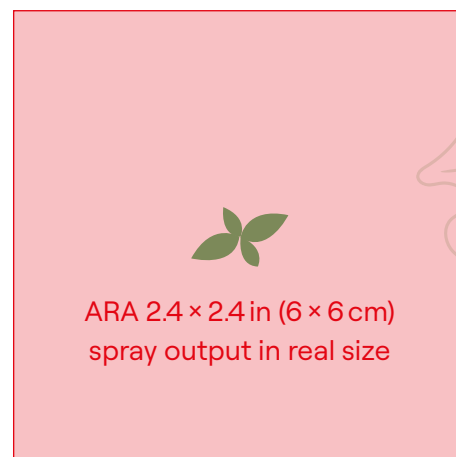
A Revolution in Precision Agriculture

With a working width of 19.7 feet (6.01 meters) and a driving speed of up to 4.5 mph (7.2 km/h), ARA595, the Ultra-High Precision Sprayer can cover up to 10 acres (4 hectares) per hour.



Increased Spraying Efficiency

ARA™ achieves a 2.4 × 2.4 in (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.



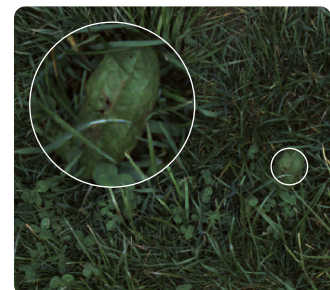
Minimal Recognition Size



Weeds (Mono & Dicots)
≥ 0.08 in (2mm)



Crop
≥ 0.8 in (2cm)



Dock | Thistle
≥ 2 in (5cm)

Plant-by-Plant AI™ Technology

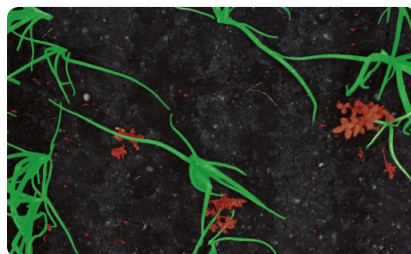
1. Sense



Vision Box

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

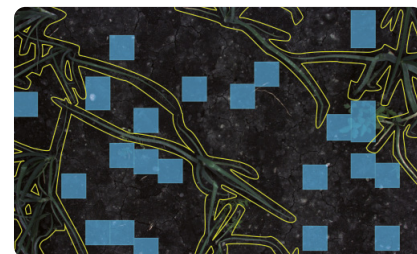
2. Decide



■ Crop ■ Target weed ■ Treated area ■ Safety zone

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

3. Act



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

Existing Spraying Methods with Crop Presence

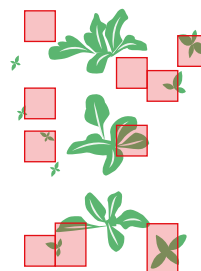
Broadcast Sprayers



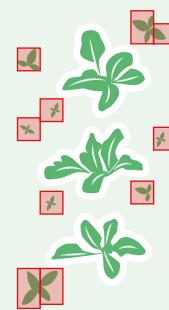
Smart Sprayers



Spot Sprayers



ARA595



| | Broadcast Sprayers | Smart Sprayers | Spot Sprayers | ARA595 |
|--|--------------------|----------------|---------------|---------------|
| 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, 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 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



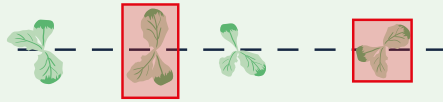
Lines detection

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

Crop Care Procedures

Thinning Algorithm

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



Thinning under normal conditions



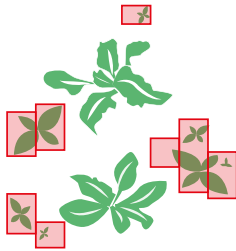
Thinning with multiple plant management (removing overlapping plants)



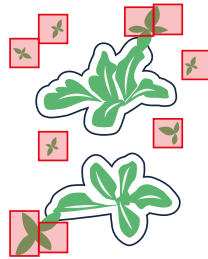
"I talk to growers every day who are tired of being at the mercy of labor availability during thinning season. ARA changes that equation entirely. One operator, consistent spacing, and the confidence that the right plant is kept every time — that's a game changer for lettuce operations of any size."

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

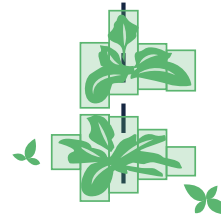
Crop-Specific Modes



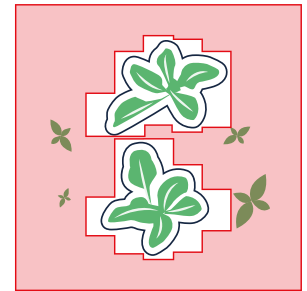
Application of non-selective herbicides **on weeds even close to crops.**



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



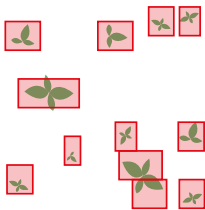
Application of fungicides, insecticides, fertilizers and biostimulants **on the crop only.**



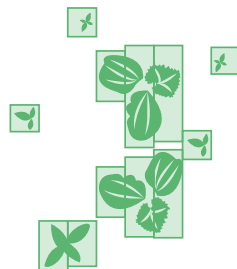
Spray all but crop **with an adjustable safety zone.**

Universal Functions (Non Crop Specific)

Function All-Plants

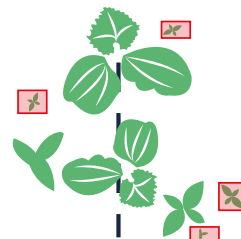


For preplanting: herbicide application.

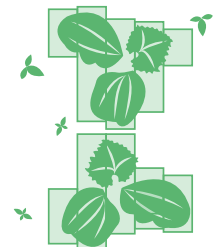


Application of fungicides, insecticides, fertilizers and biostimulants **on all-plants.**

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, ARA595 keeps your beds spotless, tackling weeds with a 19.7 feet (6.01 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.



"We sprayed 20 acres (8 hectares) with a total of 60 gal (272 liters). Normally we would use about 1,000 gal (4546 liters) to cover the whole field. We used 1-ounce (28 grams) of active ingredient across the whole field where we usually would use 16-ounces (453 grams). 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

Simple set-up!

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.

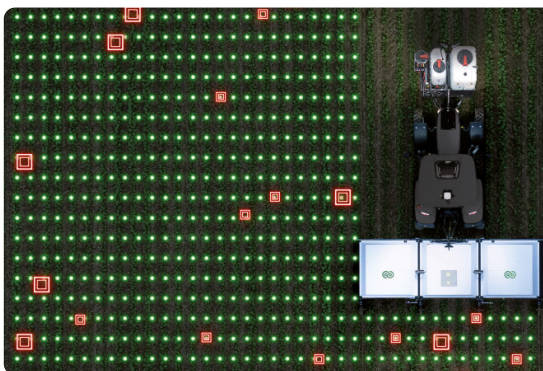
Pipe Guider

Pipe guider helps guide ground-level sprinkler systems safely around the machine during operation.



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.



Technical Data

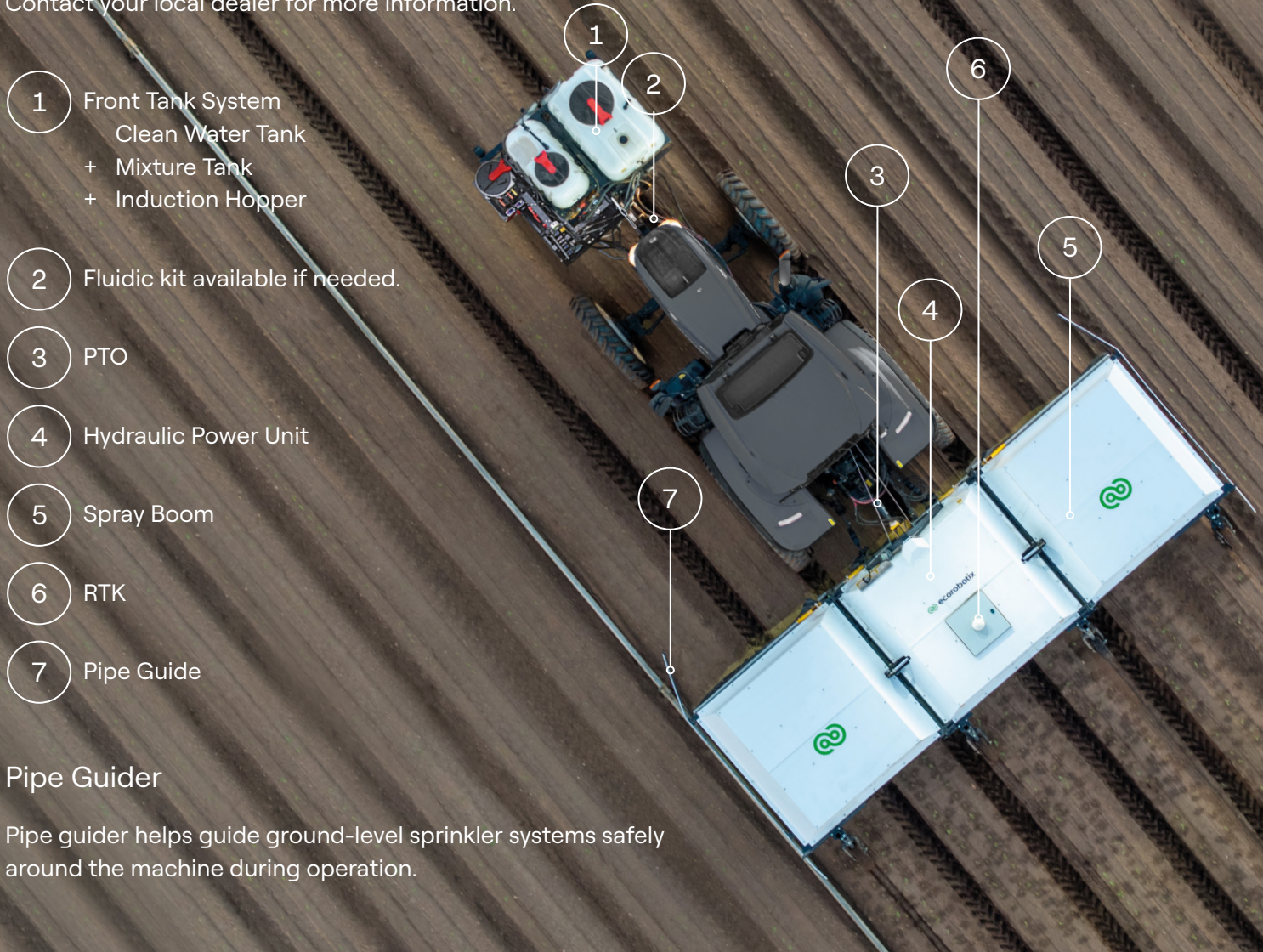
| | |
|---------------------------------------|---|
| Technical Name | ARA595 S G2 UHP Sprayer |
| Dimensions | Length × Width × Height |
| Rear module during transport | 8.2 ft × 11.8 ft × 10.2 ft / 2.50 × 3.60 × 3.11 meters |
| Rear module in operation | 8.98 ft × 20.47 ft × 4.13 ft / 2.74 × 6.24 × 1.26 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 19.7 ft / 6.01 meters |
| Variable Wheel Spacings | From 4.9 ft to 6.6 ft / 1.50 to 2.00 meters |
| Spray Boom | 144 nozzles spaced 1.6 inches / 4 cm apart Automatic height adjustment |
| Dual-Tank System: 3 components | |
| Fresh Water | 158.5 gal / 600 litres |
| Mixture | 79 gal / 300 litres mixture tank |
| Induction hopper | 4 gal / 15 litres |
| Fluidic kit | Allows connection to compatible alternative tank systems. |
| Optional Fluidic Kit | |
| Pump | 19.8 gal |
| Weight | 58.05 kg / 128 lbs |
| Dimensions | 21" (53.24cm) W × 32" (81.28cm) L × 27" (68.58cm) H |
| Weight | |
| Rear module | 2536 lbs / 1150 kg |
| Front tank system | 904 lbs / 410 kg (curb weight) |
| Tractor Requirements | |
| Rear Power Take-Off | 4 hp max. (3 kW) of energy required |
| Front & Rear 3 Point Hitch | Category 2 |
| Front Hydraulic Flow Rate | 30 liters/minute |
| Productivity | Up to 10 acres/hour at 4.5 mph ground speed / Up to 4 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 maps editing with GPS RTK antenna |

Specifications for information 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 splashes or fumes. Other tank configurations may be compatible thanks to our fluidic kit. Contact your local dealer for more information.



- 1 Front Tank System
Clean Water Tank
+ Mixture Tank
+ Induction Hopper
- 2 Fluidic kit available if needed.
- 3 PTO
- 4 Hydraulic Power Unit
- 5 Spray Boom
- 6 RTK
- 7 Pipe Guide

Pipe Guider

Pipe guider helps guide ground-level sprinkler systems safely around the machine during operation.

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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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