

ARA200

THE ARA™ RANGE
for beds from 1.5 m to 12 m
Learn more at ecorobotix.com

ecorobotix 

AI-Powered UHP Sprayer

Equipped with Plant-by-Plant AI™, ARA200 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 AI™ 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.

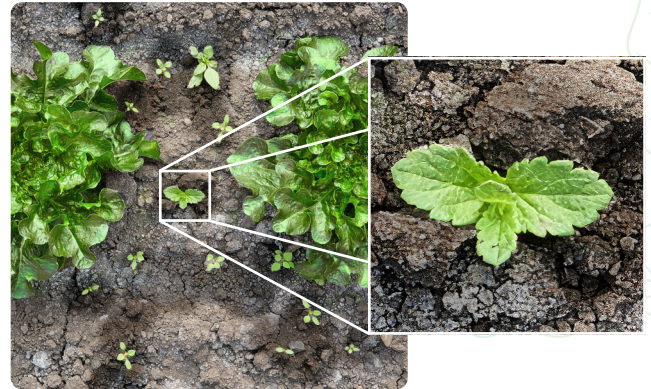
A Revolution in Precision Agriculture

With a working width of 2.01 meters and a driving speed of up to 7.2 km/h, ARA200, the Ultra-High Precision Sprayer can cover up to 1.4 hectares per hour.

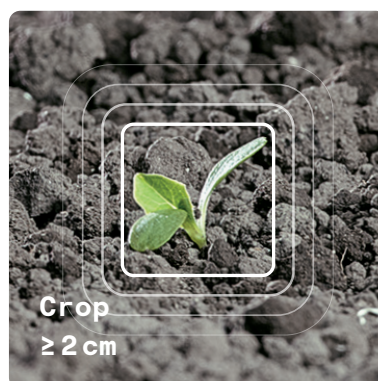


Increased Spraying Efficiency

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





Plant-by-Plant AI™ Technology

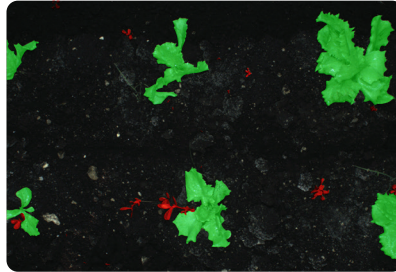
① Sense



3D and RGB cameras

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

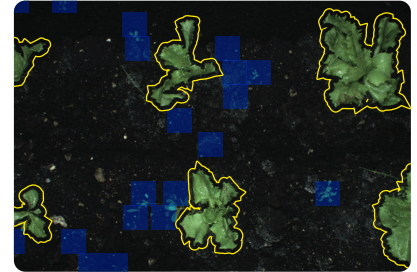
② Decide



■ 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

Conventional Sprayers

Spray entire field (99% of market)

50 × 50 cm

6 × 6 cm



UHP

Spraying precision at 7.2km/h

Precision - "Smart" Sprayers

(<1% of sprayers on the market)

1 : 5 Scale

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 Models

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

Specialty Crops

Avg. Input Savings 75%



Onion



Carrot



Lettuce

THINNING



Broccoli

THINNING



Cauliflower

THINNING



Other cabbage

THINNING



String beans



Spinach



Chicory



Leek



Garlic



Red beet



Celery/Celeriac

Upcoming...



Pepper



Zucchini



Pumpkin



Watermelon



Cantaloupe



Cucumber



Processing tomato



Parsley



Swiss Chard



Escarole



Radish



Sweetcorn

Target Weeds

Avg. Input Savings 82%



Volunteer potato



Monocot/Dicot weeding

Upcoming...



Nutsedge

Pasture

Avg. Input Savings 96%



Dock



Thistle



Ragwort

Upcoming



Dock and Thistle

Other Application Modes



All plants



Target size



Turf

Upcoming...



Lines detection

Grass Seed

Upcoming...



Tall Fescue



Kentucky Bluegrass



Engl. Raygrass

Broadacre Crops

Avg. Input Savings 75%



Potato



Sugar beet



Rapeseed (Canola)



Corn

Upcoming...



Cotton



Wheat (Dicot)



Soy

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

Crop Care Procedures

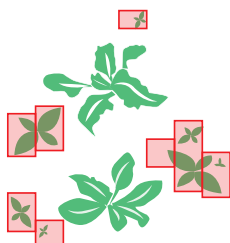


Angus HILL

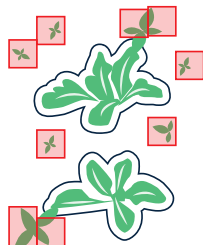
Agronomist and Farm Support Consultant

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%.

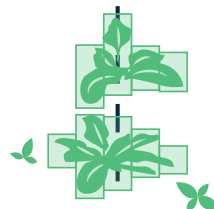
Crop-Specific Modes



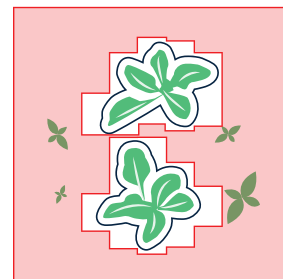
Application of selective herbicides **on weeds even close to crops.**



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



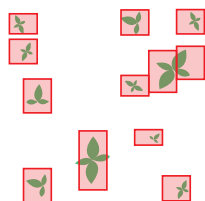
Application of fungicides, insecticides, fertilizers and biostimulants **on the crop only.**



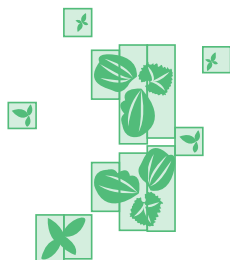
Spray all but crop **with an adjustable safety zone.**

Universal Functions (Non Crop Specific)

Function All-Plants

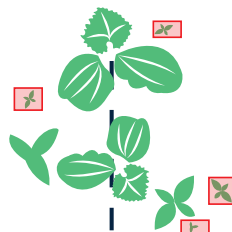


For preplanting: herbicide application.

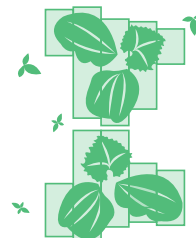


Application of fungicides, insecticides, fertilizers and biostimulants **on all-plants.**

All-Plants Combined with Target Size



Size-based **herbicide** application.



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

Thinning Model

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

Thinning under normal conditions



Thinning with multiple plant management (removing overlapping plants)



Engineered for Versatility, Built for Reliability

Day or night, ARA200 keeps your beds spotless, tackling weeds with a 2.01 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.



DENNIS GROSSHANS

Vegetable Grower, Gemüsebau Grosshans

With ARA, we've been able to skip one or two broadcast herbicide applications and treat weeds precisely instead, reducing crop stress and improving field uniformity.

Just plug-in and go!

ARA, the Ultra-High Precision Sprayer attaches to your 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.

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	ARA200 S G2 UHP Sprayer		
Dimensions (L × W × H)	2.70 m × 2.05 m × 1.40 m		
Working Width	Adjustable up to 2.01 m		
Variable Wheel Spacings	From 1.5 to 2.0 m		
Spray Boom	48 nozzles spaced 4 cm Automatic height adjustment		
Integrated Tanks			
Mixture Tank			150l
Fresh Water Tank			150l
Hand Cleaning Tank			20l
Integrated Induction Hopper	Container cleaning & agitation nozzle		
Weight (Empty)	700 kg		
Tractor Requirments			
Rear Hitch Lift Capacity			1,600 kg at end balls
Min. Rear Hydraulic Flow			15l/min
Front & Rear 3 Point Hitch			Cat II/Cat I
Productivity	Up to 1.4 ha/hour at 7.2 km/h ground speed		
Control & Setup	Via Ecorobotix UI App on a wireless tablet		
Task Documentation	Recording of completed tasks and maps editing with GPS RTK antenna		

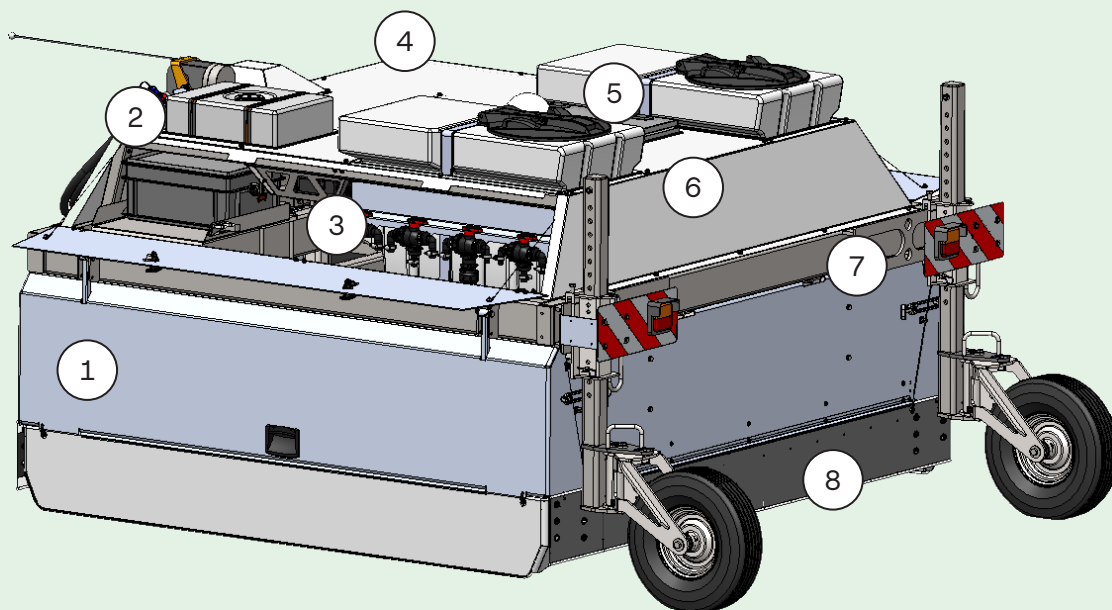
Specifications for information purposes only, subject to change without prior notice.



Product specifications

Compact, ergonomic, and easy to handle. The fully integrated tanks and fluid management system create a compact, ergonomic machine that is simple to operate and highly maneuverable, even in the most confined working environments.

The integrated container cleaning and agitation nozzle ensures efficient rinsing and consistent mixing, improving convenience while optimizing spraying performance.



1 Pivoting Covers

2 Electric Power Supply from the Tractor

3 Fluidic Valves & Hydraulic Pump

4 Hand Cleaner Tank

5 Integrated Tanks

6 RKT Antenna

7 Adjustable Wheel Track

8 Spray Boom

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A local distributor is likely
closer than you think.
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