

ARA : Ultra-High Precision Sprayer

AI-powered spraying technology that cuts the use of plant protection products and fertilizers by up to 95%. ARA offers a reliable solution for meeting strict environmental regulations while boosting agricultural profitability.



Plant-by-Plant AI Treatment

Achieve up to 95% reduction in plant protection product usage!



Fast ROI on Your Investment

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



Boost Your Bottom Line

Lower costs on inputs while maximizing your crop yields.



Year-Round Versatility

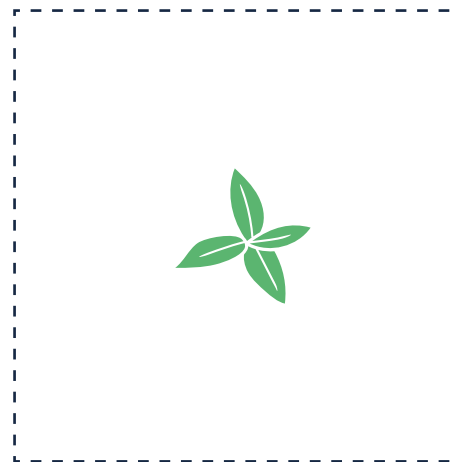
From herbicides, insecticides, fungicides to liquide fertiliser, ARA adapts to all your seasonal needs.

A Revolution For Precision Farming

ARA is one of the most precise field sprayers available, offering plant-by-plant spraying. With a working width of 20 feet and a driving speed of up to 4.7 mph, ARA can cover 10 acres per hour.

Actual-Size Demonstration

ARA offers 2.4 × 2.4 in of precision, targeting only the specific area that needs spraying while leaving the surrounding areas untouched.



Detection Threshold

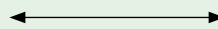
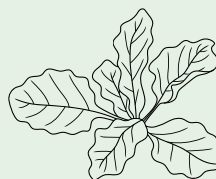
Minimal Recognition Size

Weeds
(Mono & Dicots)



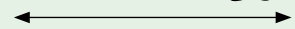
≥ 0.08 in

Crop



≥ 0.8 in

Dock | Thistle



≥ 2 in

Versatility: Day & Night, All Year-Round, Even in Windy Conditions

ARA operates as well at night as it does in the day and can cover up to 240 acres every 24 hours. The sun covers also protect against wind and greatly reduce drift.



Ultra-High Precision Plant-by-Plant Spraying

1. Reduced phytotoxicity thanks to ultra-high precision spraying – increasing crop yields and improving biodiversity.

2. Nozzle action close to the ground and protective covers minimizes spraying drift by 95%, certified by the Julius Kühn Institut (JKI/Germany).

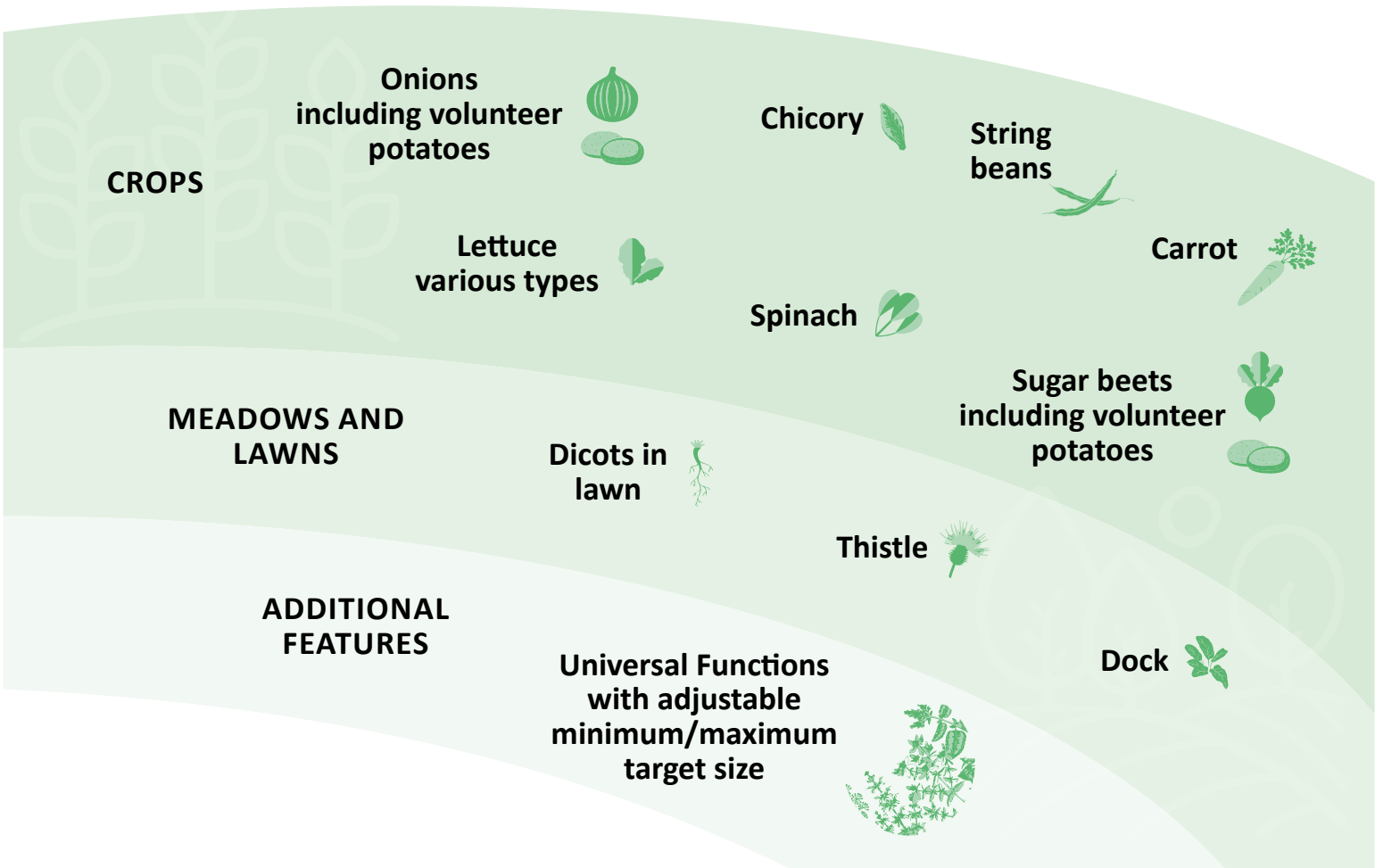


We sprayed 20 acres with a total of 60 gal. Normally we would use about 1,000 gal to cover the whole field. We used 1-ounce of active ingredient across the whole field where we usually would use 16-ounces. While using ARA, the onions had really good color and really good shape, totally unaffected by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

Cody Anderson | L & L AG Production, LLC | Onion Grower

Crop Protection & Fertilizer Application

Precise spraying of herbicides, fungicides, insecticides, etc., in row crops, vegetables, prairies, and lawns.



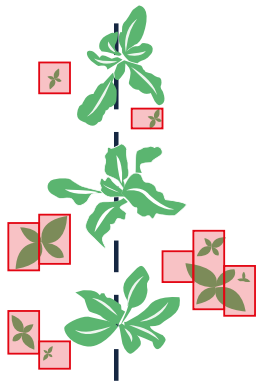
Dual-Tank System

ARA is supplied with a water and a product tank that are carried on the front of the tractor. Other tanks may be compatible. See your local dealer for more information.

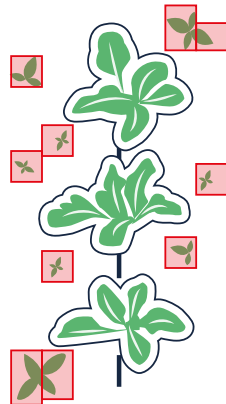


Crop Care Procedures

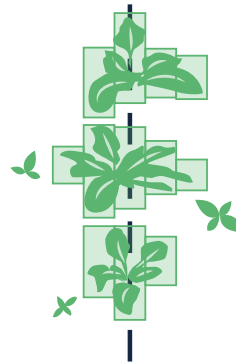
Crop-Specific Algorithms



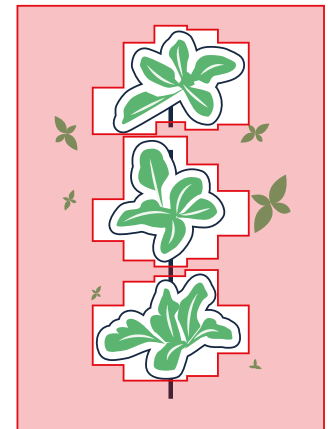
Application of selective herbicides **on weeds even close to crops.**



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



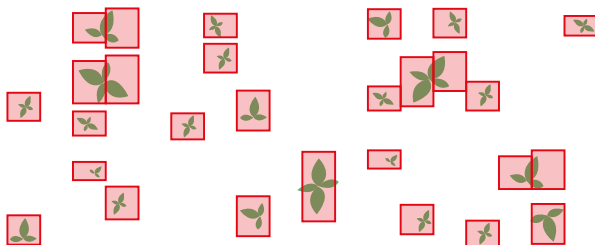
Application of fungicides, insecticides, fertilizers and biostimulants **on the crop only.**



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

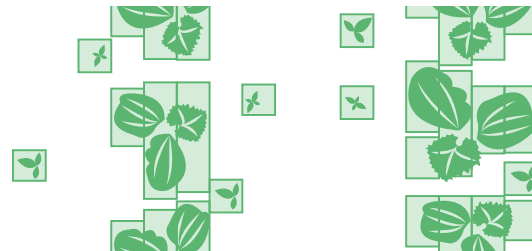
Universal functions (non crop specific)

All-Green Function



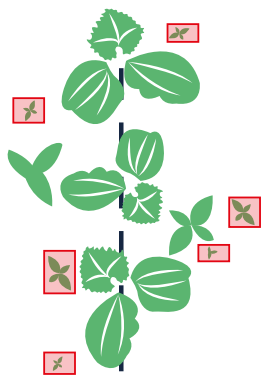
For preplanting : herbicide application.

All-Green Function

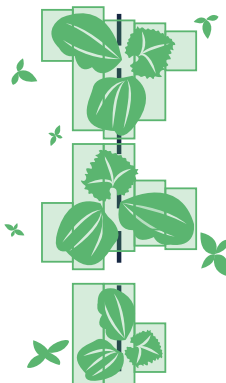


Application of fungicides, insecticides, fertilizers and biostimulants **on all green plants.**

All-Green Combined with Target Size



Size-based **herbicide** application.

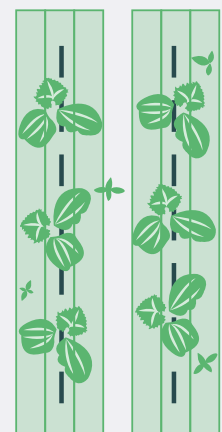


Size-based application of **fungicides, insecticides, fertilizers and biostimulants.**

Band Spraying with Row Algorithm



Interrow herbicide treatment.



Application of fungicides, insecticides, fertilizers and biostimulants **in the row.**

Easy-to-Use Operation

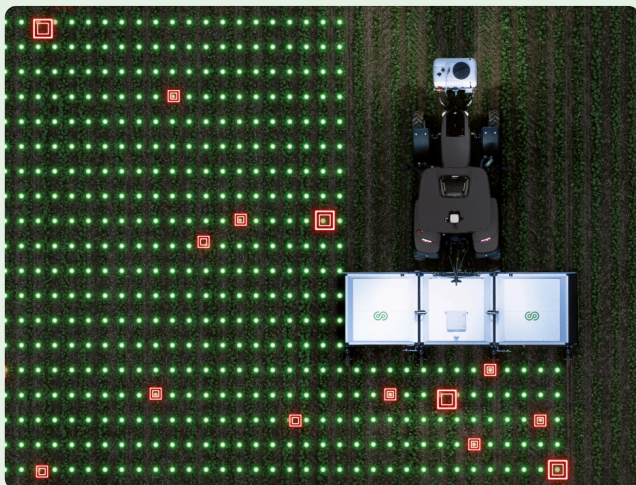
Just plug-in and go!

ARA attaches easily to the back of any tractor and is controlled with a tablet in just a few clicks. Select the type of crop, treatment type, and ARA does the rest! All other settings are automatically set to match the driving speed and direction.



Three-Phase Plant-by-Plant AI

- 1** Collection & analysis of images from on-board cameras.
- 2** Recognition & identification of individual crops & weeds.
- 3** Targeted spraying only on selected plants or weeds.



Your Cloud Assistant

Optimise your crop management based on automatic documentation of your operations. During treatment, data is continuously recorded by ARA and stored in the cloud.

With your personal login you have access to detailed statistics, like the amount of plant protection products used and the area worked. In addition, an application map is created for each field.

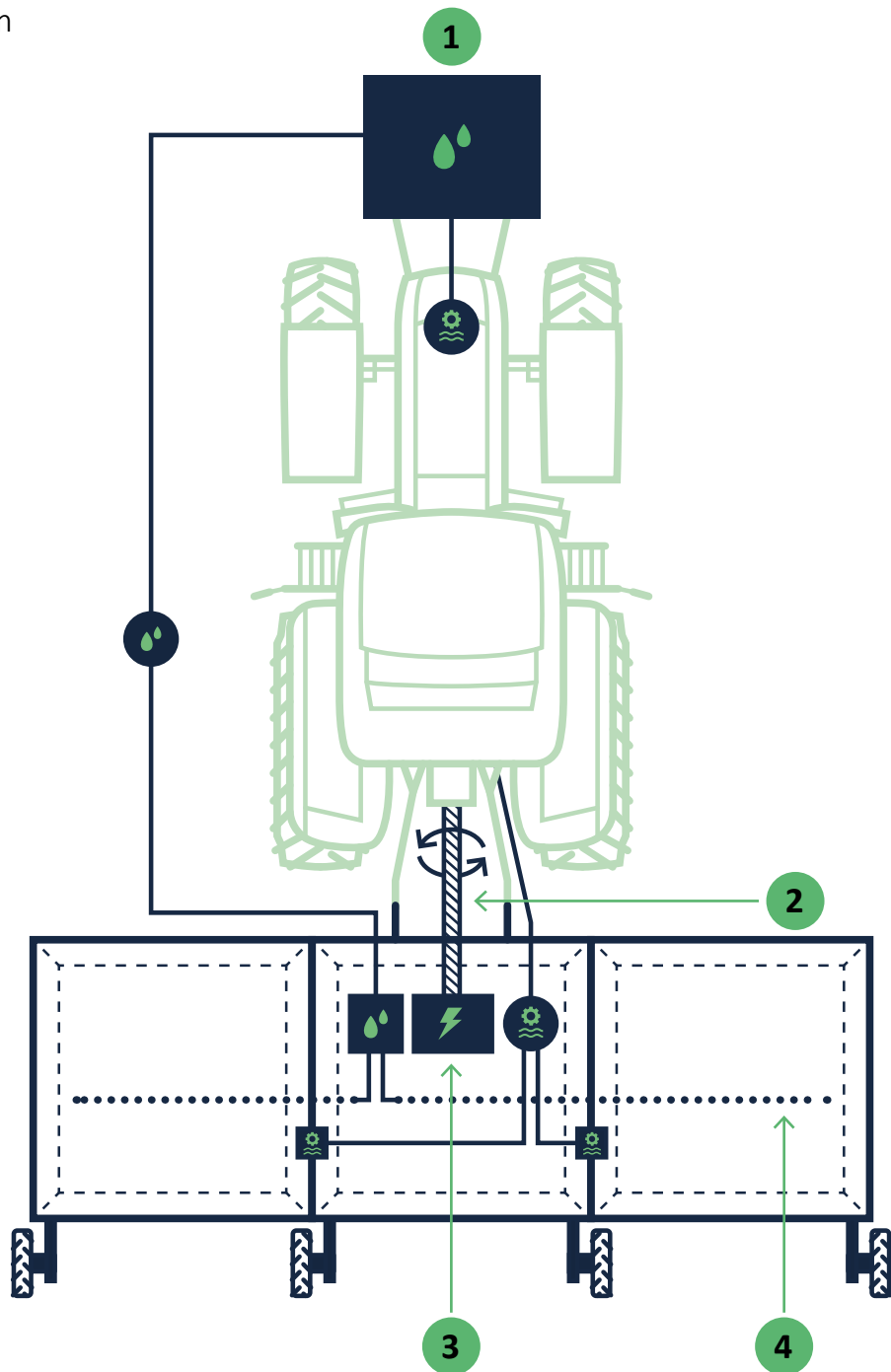
Technical Data

System dimensions Length × Width × Height	3 spraying modules Transport dimensions: 8.5 ft × 9.2 ft × 10.8 ft Working dimensions: 8.5 ft × 21.7 ft × 4.3 ft Wheel spacing: 60-80 in
Spraying dimensions	156 high-precision spray nozzles spaced 1.57 in apart
Weight	Front tank: 992 lbs (empty) and 2976 lbs (full) Spraying modules: 2645 lbs
Front tank volume	160 gal water tank + 80 gal spray tank
Working width	19.8 ft
Spacing between crop rows	No constraints
Speed	Up to 4.5 mph
Wheels	Available for crops or meadow
Area output	Up to 10 acres/hour, day & night
Efficiency	Up to 95% saving on plant protection products (depending on weed density)
Connections on the tractor	540 PTO Hydraulic : min. 1,450 psi at rear remotes Front requires 6.6 gal per minute hydraulic capacity.
Nozzle rinsing	According to existing standards
Control and configuration	Via wireless tablet
Communication	Short (Wi-fi) or long distance (3G, 4G)

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



- 1 Front dual-tank system (water + spray liquid)
- 2 PTO
- 3 Hydraulic power unit
- 4 Spray boom



For more information, contact :

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