

The Only Ultra-High Precision Smart Sprayer On the Market

Ultra-high precision spraying of herbicides, fungicides, insecticides or liquid fertiliser – reducing plant protection product use by up to 95%. ARA is the proven solution for complying with stringent environmental regulations and increasing agriculture profitability.



Ultra-High Precision Plant-by-Plant Treatment

Reduce plant protection product use by up to 95%!



Rapid Amortisation of Equipment

Return on investment in two to four years, depending on farm size



Increase Your Profitability

Increase profitability through better crop yields and lower volumes/costs of plant protection products



Versatile Use All Year Round

Wide range of applications: herbicides, insecticides, fungicides, fertiliser, etc.

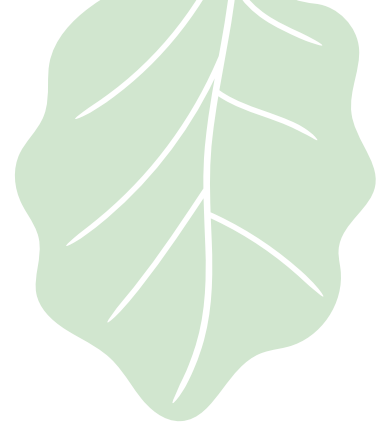
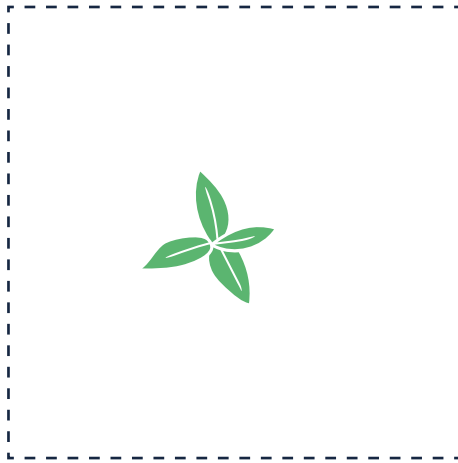
A Revolution in Ultra-High Precision Farming

ARA is the most precise field sprayer on the market which enables plant-by-plant spraying.



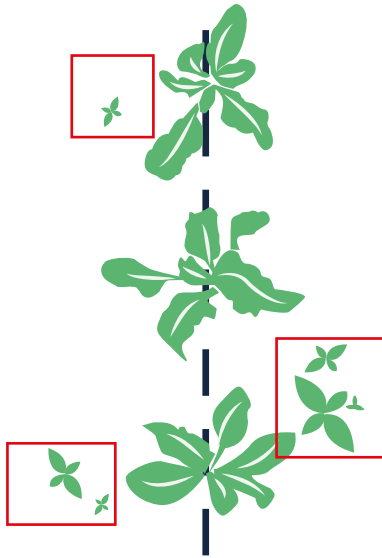
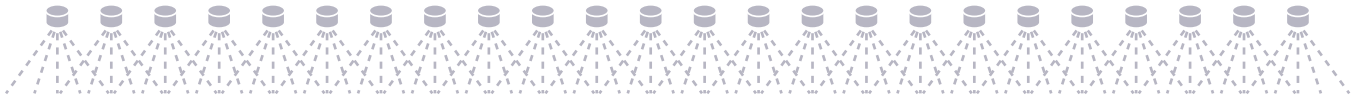
Actual-Size Demonstration

ARA has a precision of
 6×6 cm

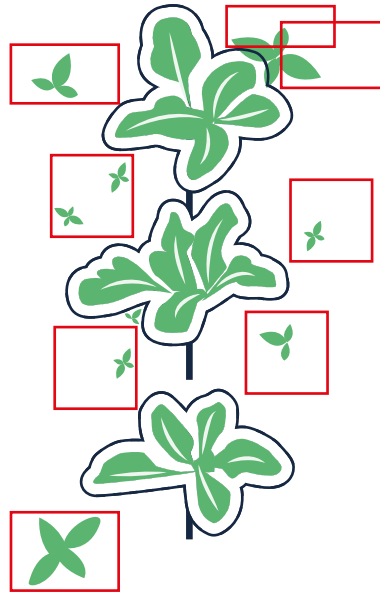


Operating Procedures

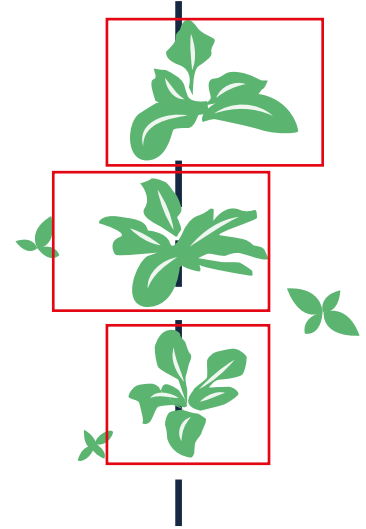
With a working width of 6 m and a driving speed up to 7 km/h, ARA achieves a coverage of 4+ hectares/hour.



Application of selective herbicides on weeds. Even weeds close to crops are sprayed.



Application of non-selective herbicides on weeds only while avoiding any contact with the crop. *A safety zone of 4cm* without spraying is maintained around each crop plant.



Application of insecticides and fungicides on the crop only – avoiding losses on ground and weeds.

Ultra-High Precision Plant-by-Plant Spraying

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

Nozzle action close to the ground and protective covers minimizes spraying drift.



Versatile Use All Year-Round, Day and Night, Even in Windy Conditions

The ARA smart sprayer operates as well at night as it does in the day and can cover up to 96 hectares every 24 hours. The sun covers also protect against wind and greatly reduce potential drift.

The wide range of crop protection applications allow the use of herbicides, fungicides and insecticides for row crops, vegetable crops, as well as meadows and lawns. New crops are added regularly, please check our website.

LARGE CROPS

Sugar beets including
volunteer potatoes

Rapeseed

Corn

VEGETABLE CROPS

String beans

Spinach

Onions, including
volunteer potatoes and
monocots in onions

Chicory, including
volunteer potatoes

Lettuce various types

MEADOWS AND LAWNS (Weed control)

Thistle

Rumex

Dicots in lawn

All Green, with
adjustable minimum/
maximum target size

The algorithms were designed for EU crop management.





The Dual-Tank System

A water tank and a spray liquid tank are carried in the front attachment of the tractor. This enables mobile refilling of the spraying liquid in the field. After initial treatment, the optimal mix of spray liquid is automatically calculated to simplify completing the work in a given area.



An Easy-to-Use Application to Operate ARA

ARA is easily operated with a tablet in a few clicks. Just select the type of crop and type of treatment and ARA does the rest. All other settings are automatically set to match the driving speed and direction.

Ultra-high precision agriculture without any change to how you operate.



A three-phase technology – implemented instantly on the machine:

1. Images collected by the cameras and analysed instantly

2. Recognition – identification of individual crops and weeds

3. Ultra-high precision plant-by-plant spraying of products only onto target plants/weeds



Your Cloud Management Assistant

Optimise your crop management with automatic records of your operations. During treatment ARA continuously records and stores data about the crops and treatments in the cloud. Your personal login gives you access to detailed statistics, for example the application rate and the worked area. In addition, an application map is created for each field.

Technical Data

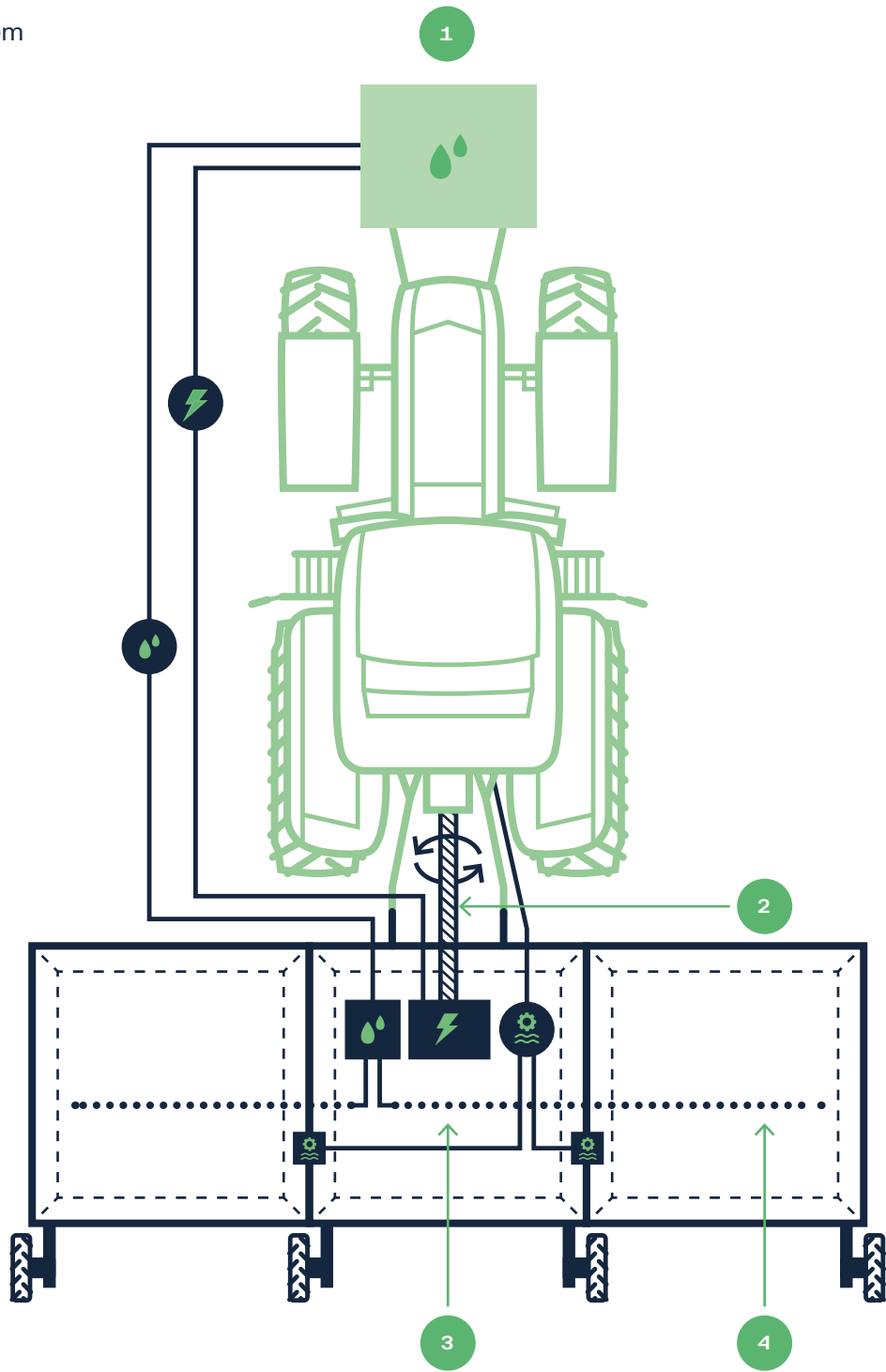
System dimensions Length × Width × Height	3 spraying modules Transport dimensions: 2.6 m × 2.8 m × 3.3 m* Working dimensions: 2.6 m × 6.6 m × 1.3 m* Wheel spacing: 1.5 to 2 m
Spraying dimensions	156 high-precision spray nozzles spaced 4 cm apart
Weight	Front tank: 320 kg (empty) and 1020 kg (full) Spraying modules: 1160 kg
Front tank volume (water + spray liquid)	500 litres + 200 litres
Working width	6.0 m
Spacing between crop rows	No constraints
Speed	Up to 7.2 km/h
Wheels	Available for crops or meadow
Area output	4 hectares/hour, up to 96 hectares/day (24 hours)
Efficiency	Up to 95% saving on plant protection products (depending on weed density)
Connections on the tractor	Hydraulic: min. 100 bar PTO: 3 kW max. (4 cv) of energy required
Nozzle rinsing	According to existing standards
Control and configuration	Via wireless tablet
Communication	Short (Wi-fi) or long distance (3G, 4G)

*Length × Width × Height

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







- 1 Front dual-tank system
- 2 PTO
- 3 Hydraulic power unit
- 4 Spray boom



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