

# The only ultra-high precision smart sprayer on the market

Ultra-high precision spraying of herbicides, fungicides, insecticides or liquid fertiliser – reducing plant protection products 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 products 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

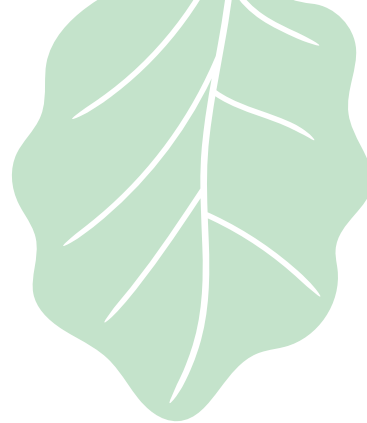


## Versatile use all year round

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

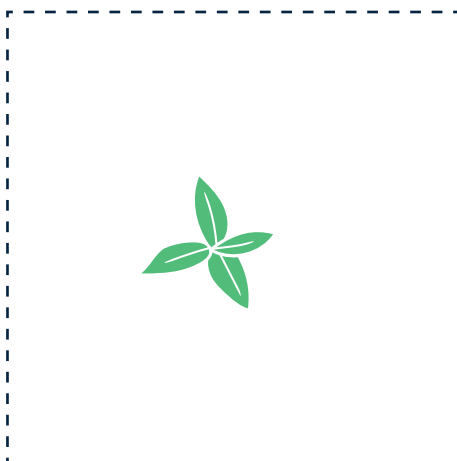
# A revolution in ultra-high precision farming

ARA is the most precise field sprayer on the market which enables plant-by-plant spraying (targeting individual weeds only, not crops or ground).



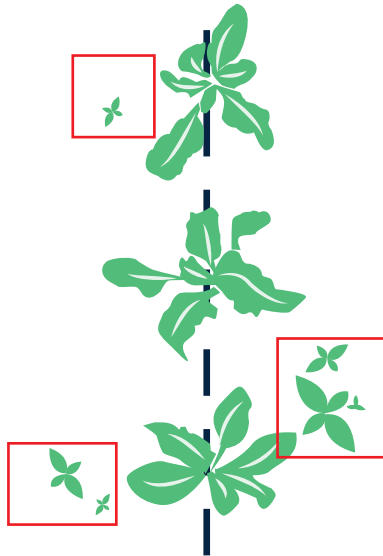
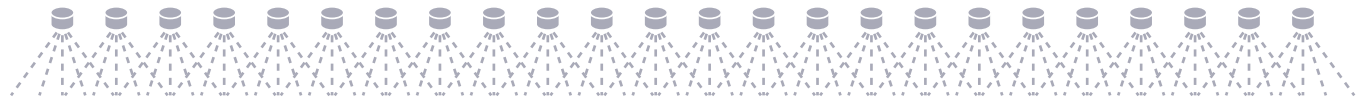
## Actual-size demonstration

ARA has a precision of  
 $6 \times 6$  cm

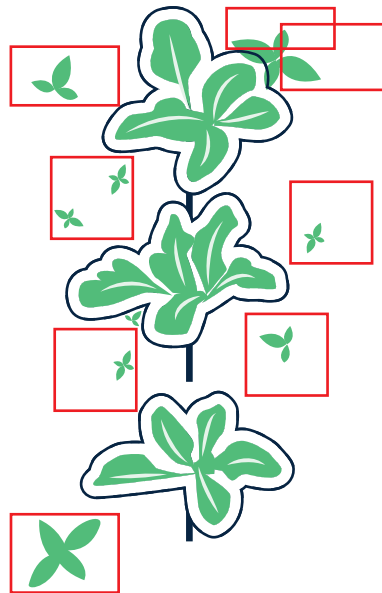


# Operating procedures

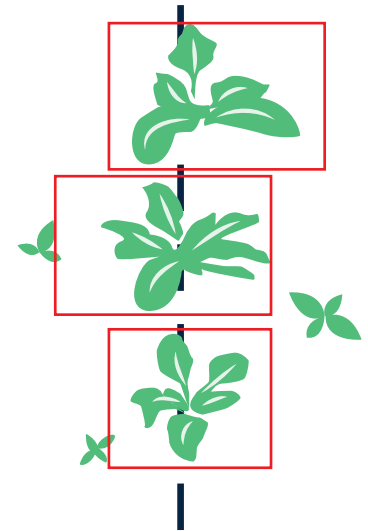
With a working width of 6 m and a driving speed up to 7 km/h, ARA achieves and coverage of 4+ hectares/hour.



**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.

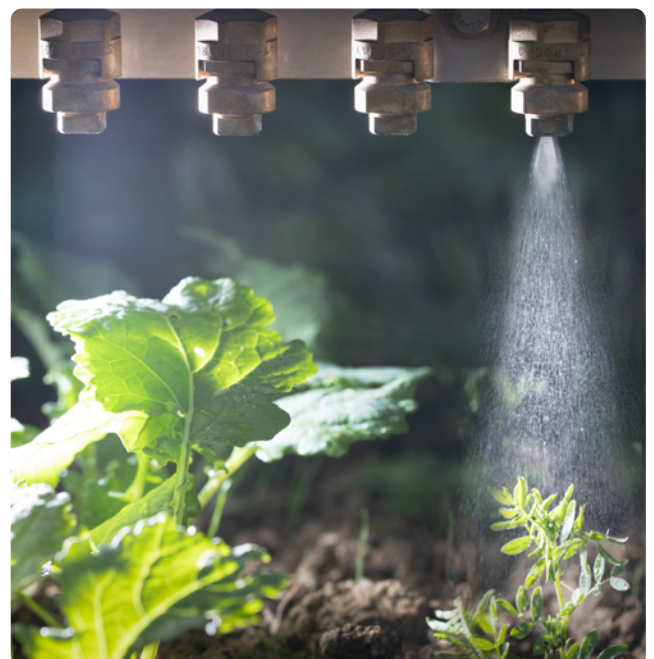


**Application of insecticides and fungicides** on the crop only – avoiding losses on ground and weeds.

## 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 minimises 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 allows 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

Cotton

Rapeseed

Volunteer potato

Maize\*

Soya\*

All green

## Vegetable crops

String beans

Spinach

Onions

Chicory

Iceberg lettuce

Lettuce

All green

## Meadows and lawns

Thistle

Rumex

Lawn

[ecorobotix.com/en/types-of-crops](https://ecorobotix.com/en/types-of-crops)

\*In development







## The dual-tank system

A 500 litre water tank and a 200 litre 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 parameters 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 camera and analysed instantly

2. Recognition – identification of individual crop plants and weeds

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



## Your management assistant, Cloud Management

Optimise your crop management with automatic records of your operations. During treatment ARA continuously records and stores data about the crop and treatment 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

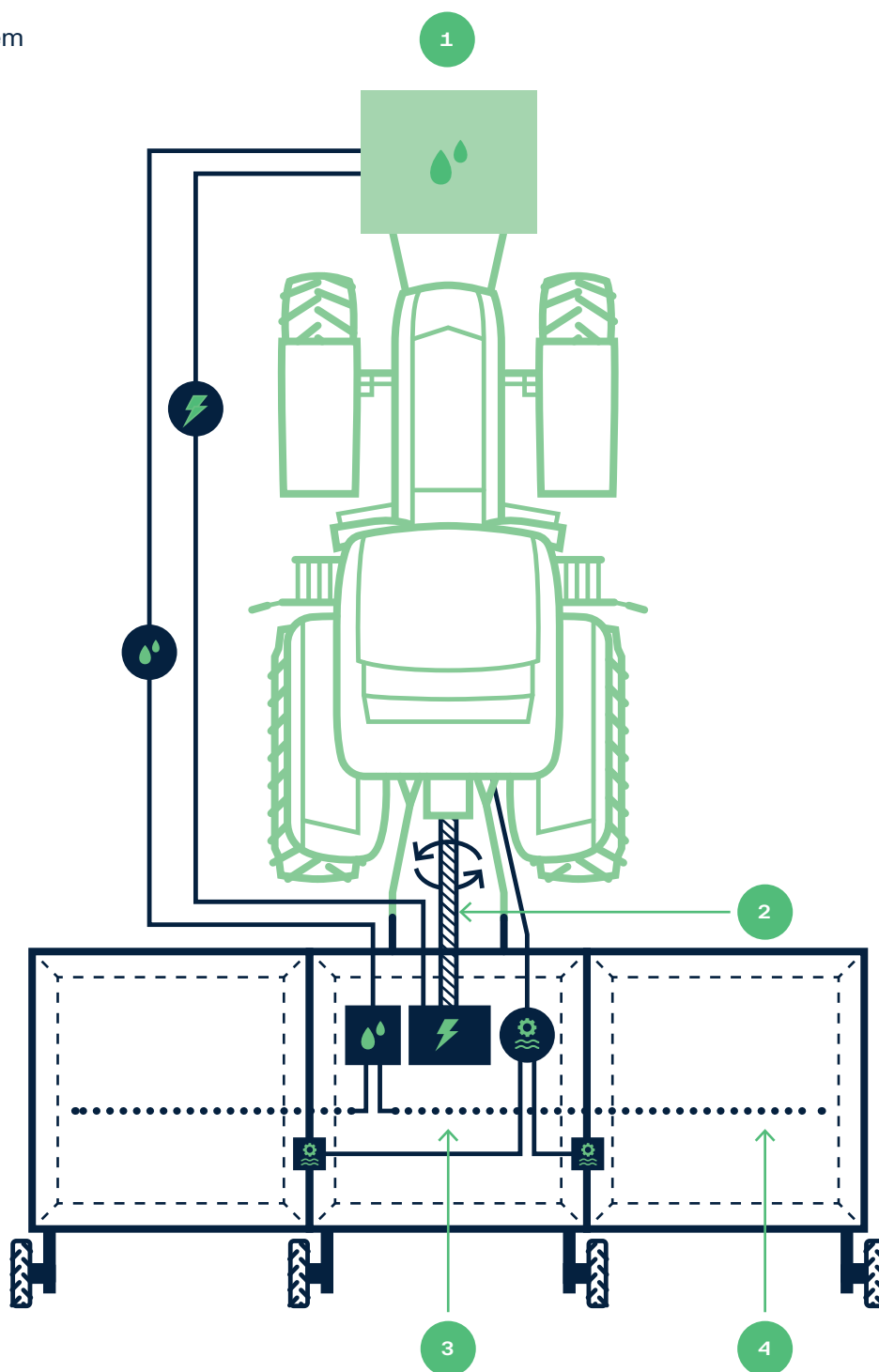
System dimensions	3 spraying modules Transport dimensions: 2.6 m × 2.8 m × 3.3 m* Working dimensions: 2.6 m × 6.6 m × 1.3 m* Wheel spacing: 1.5 to 2 m
System dimensions	156 high-precision spray nozzles spaced 4 cm apart
Spraying system	Front tank: 320 kg (empty) and 1020 kg (full)
Weight	Spraying modules: 1160 kg
Front tank volume	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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