



Carrot Algorithm

Changing Carrot Farming Forever !

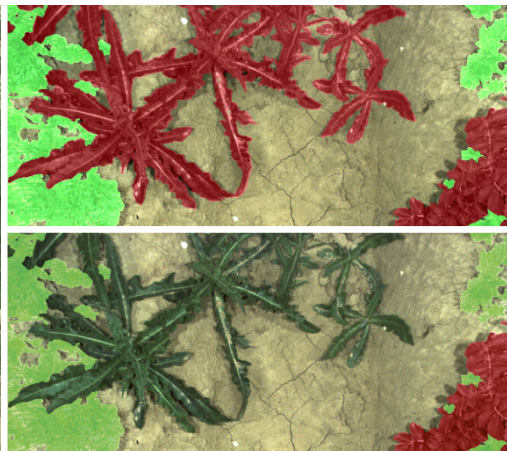
Our **award-winning algorithm** is revolutionizing the way farmers weed and treat carrot fields. ARA™ optimises weed control by **limiting herbicide** applications and reducing the need for manual labour.

Real-time capture with ARA™



Red: targeted weeds. Green: crop

Sub-centimeter plant detection



Above: All weeds are targeted
Below: only potato regrowth targeted



In some cases, we replace one or two broadcast herbicide applications with an ARA™ treatment, in order to reduce stress on the crop. Previously, hand weeding was considered an emergency measure; today, it is only very rarely required, since problematic weeds can be efficiently targeted and eliminated earlier using ARA™.

— **Dennis Großhans**, Vegetable Grower, Gemüsebau Grosshans, Germany

Detect & Treat Weeds with Artificial Intelligence (AI)

Our advanced Plant-by-Plant AI™ technology detects weeds of sub-centimeter size in your carrot crop, even close to the crop. It targets them in less than 1/4 of a second on a footprint as small as 6 by 6 cm.



The crop stays healthy while weeds are eliminated.



This precision allows the machine to get **closer to the crop** and remove more weeds, even those growing nearby, without harming it.

Visible Results

Comparison between carrot treatments managed with ARA™, compared to "no treatment" and "broadcast treatment".

Untreated Control



ARA™ Spot Spray, 10 days after treatment



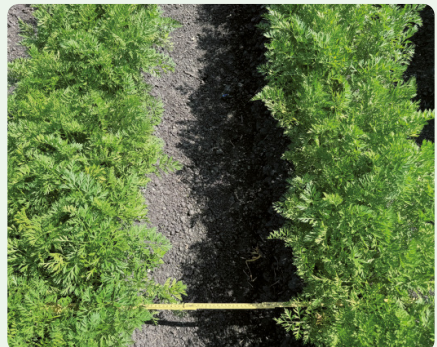
Enhanced Crop Growth

Increased biomass production is indicated by the earlier closure of crop rows in the ARA™ treatments compared with broadcast treatment. This observation suggests a tendency toward higher yields in the ARA™ treatments. Closing the rows early also reduces the amount of light available for weeds to grow.

Broadcast



ARA™



Proven Benefits:

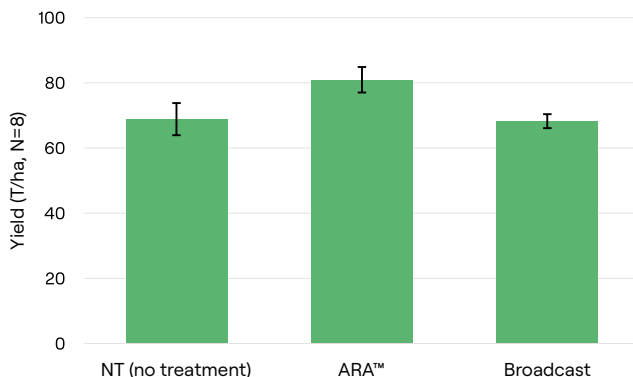
Efficient weed control

- Reduces application volumes.
- Provides strong weed control up to the 5-leaf stage in herbicide programs without metribuzin.
- Provides an effective solution for controlling field morning glory and volunteer potatoes in carrots.

Reduced phytotoxicity

- Helps reduce phytotoxicity compared with broader conventional applications.
- Promotes stronger crop growth.
- Shows a tendency toward improved yield.

Higher Yield Tendency



Trial conducted in Switzerland by Ecorobotix. ARA™ itinerary without Metribuzin.

Note: Any use of plant protection products must comply with the official authorisations, authorised conditions of use, and applicable regulations in the country of use.

A local distributor is likely closer than you think.

Get in touch to learn more!

ecorobotix.com