Autonomous mechanical weeding robot
the first entirely autonomous electric robot
to mechanically weed vegetable crops

At Naïo Technologies, we are convinced that automated mechanical weeding is the key to meeting your expectations in terms of better working conditions, crop quality and profitability.

Dino is designed to make the life of vegetable farmers easier during the weeding season. The robot frees uptime for tasks with higher added value.

What our customers say:

“The robot allows for automated weeding. Its biggest accomplishment is that it weeds all by itself. Mechanical weeding allows to eliminate chemical weed control, which is beneficial to both the crops and the environment.”

Matthieu Preudhomme, Program Manager of the Ferme 3.0 project of the Somme Chamber of Agriculture
AUTOMATED MECHANICAL WEEDING FOR VEGETABLE CROPS

PRECISE AUTONOMOUS GUIDANCE VIA RTK GPS

How does Dino guide itself autonomously?

1. Plot map
   Dino memorizes the plot map

2. GPS-tracking
   The robot then uses GPS-tracking to work autonomously throughout the rows

3. Crop detection
   The robot’s camera vision detects the plants in order to position its tools as closely as possible to the crop.

GPS-guidance is paired with camera vision in order for Dino to be operational in a maximum of configurations while keeping its precision range.

VEGETABLE FARMERS, THE ADVANTAGES OF DINO

- Lower your production costs
- Improve your working conditions
- Save extra time
- Reduce the use of farm inputs
- Manage operational timeframes
- No more maintenance worries

TOOLS

Naio Technologies offers a range of mechanical weeding tools for work in and between rows:

- HOE SHARES: available in different shapes and widths,
- SPIKED HARROWS or ROTARY HOES
## TECHNICAL DATA

<table>
<thead>
<tr>
<th>Application</th>
<th>Vegetables in row and on beds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>Length 250 cm (98 inches) / Height 130 cm (51 inches) / Distance from center of wheels 150 to 200 cm (60 to 80 inches)</td>
</tr>
<tr>
<td>Weight</td>
<td>800 kg (1760 lbs)</td>
</tr>
<tr>
<td>Energy</td>
<td>100 % Electrical - Lithium batteries</td>
</tr>
<tr>
<td>Autonomy</td>
<td>Up to 10 h*</td>
</tr>
<tr>
<td>Traction</td>
<td>4 Driving Wheels</td>
</tr>
<tr>
<td>Navigation</td>
<td>RTK GP + camera. Centimetric precision</td>
</tr>
<tr>
<td>Work rate</td>
<td>Up to 5 ha (12 acres) per day*</td>
</tr>
<tr>
<td>Working width</td>
<td>Beds of 120 to 160 cm (47 to 63 inches) Inter-row: from 15 to 50 cm (6 to 20 inches)</td>
</tr>
<tr>
<td>Speed</td>
<td>Up to 4 km/h (2.5 mph)</td>
</tr>
<tr>
<td>Other</td>
<td>Communication by SMS - European Certification</td>
</tr>
</tbody>
</table>

*Can vary depending on the conditions of use

---

**DINO, AN ECO-FRIENDLY ROBOT**

100 % electric - Designed and manufactured in France
2-year warranty