

THE FUTURE OF WEED CONTROL

LASERWEEDER



Faster + Lighter + More Sizes





LASER WEEDING: THE MOST PRECISE WEED CONTROL

LaserWeeder uses computer vision, AI/deep learning, and robotics to target and eliminate weeds in 100+ crops with lasers.



WHY LASERS?

**Solves Labor
Shortages**

**No Chemicals
or Resistance**

**No Crop or Soil
Disruption**

BENEFITS FOR FARMS

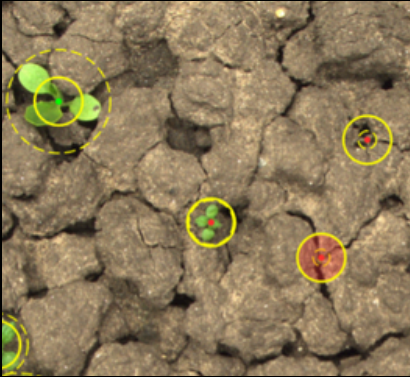
- Cut weed control costs by up to 80%
- Increase crop yields, quality, and consistency
- Boost farm profitability and sustainability



**“WE’VE SEEN A 15–20% YIELD
INCREASE AND A SUBSTANTIAL
QUALITY INCREASE.”**

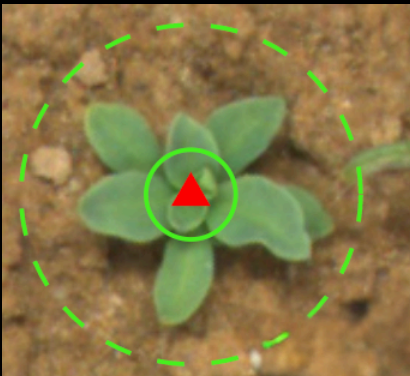
Jordan Hungenberg, Co-Owner at Hungenberg Produce

PRECISION WEED CONTROL: HOW IT WORKS



Predict

Advanced predict cameras locate all plants and deep learning models identify crops versus weeds by type in real-time.



Target

High-precision target cameras identify each plant's meristem with sub-millimeter accuracy.



Eliminate

Powerful 240-watt diode lasers target the growth point of the plant (meristem) and delivers optimal thermal energy to kill it.

POST LASER WEEDING

Once the plant's meristem is destroyed by the laser, the plant withers and dies and is reabsorbed into the soil as organic matter.



Post Shot



24 hours later

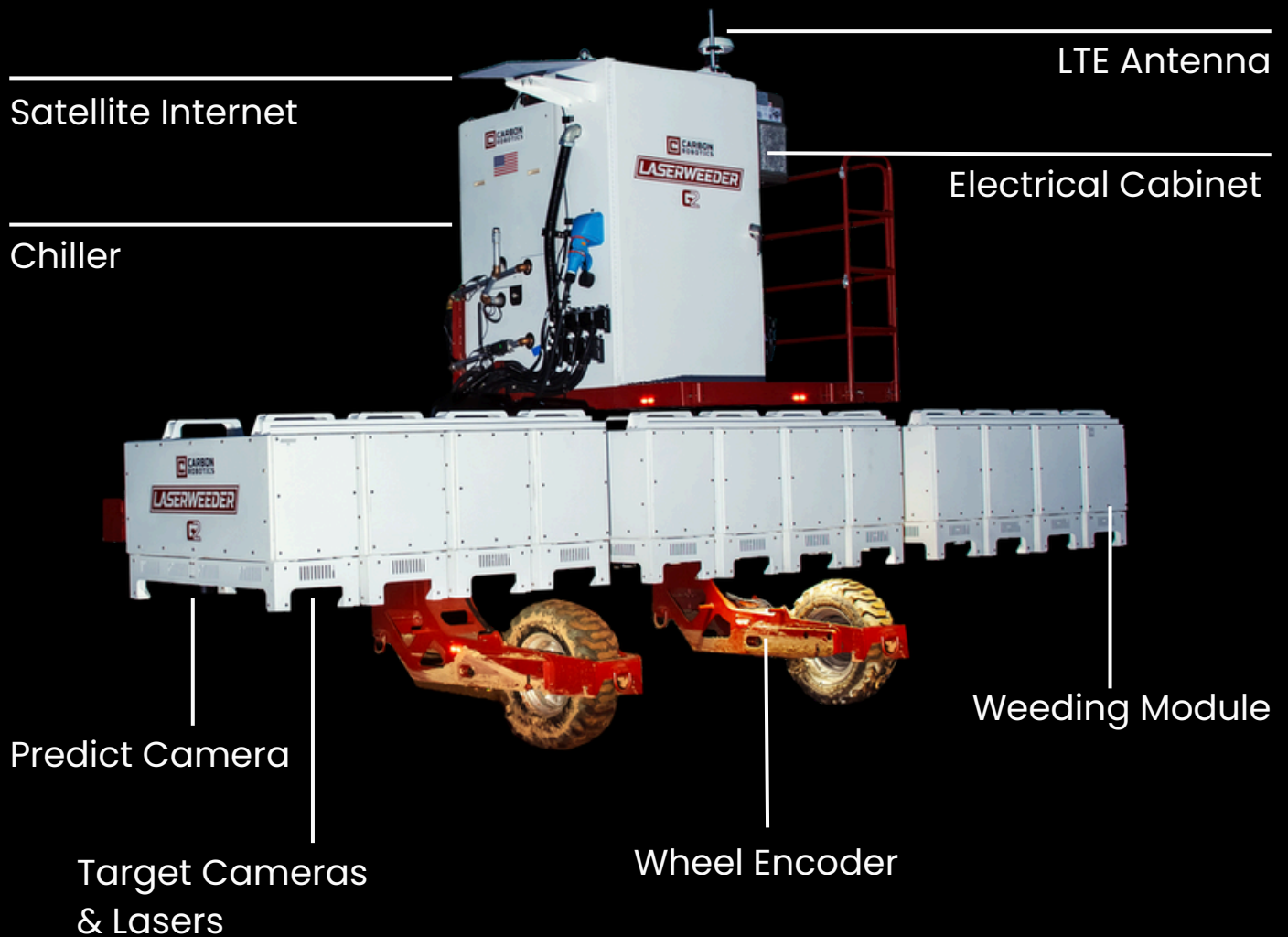


48 hours later



72 hours later

LASERWEEDER G2 ADVANCED TECHNOLOGY



Machine sizes range from 9' (2.7m) to 21' (6.4m) to fit more farms and budgets.

WEEDING MODULES: THE FOUNDATION OF LASERWEEDER G2



Modules work together to predict, target, and eliminate weeds with sub-millimeter accuracy.

Each module contains:

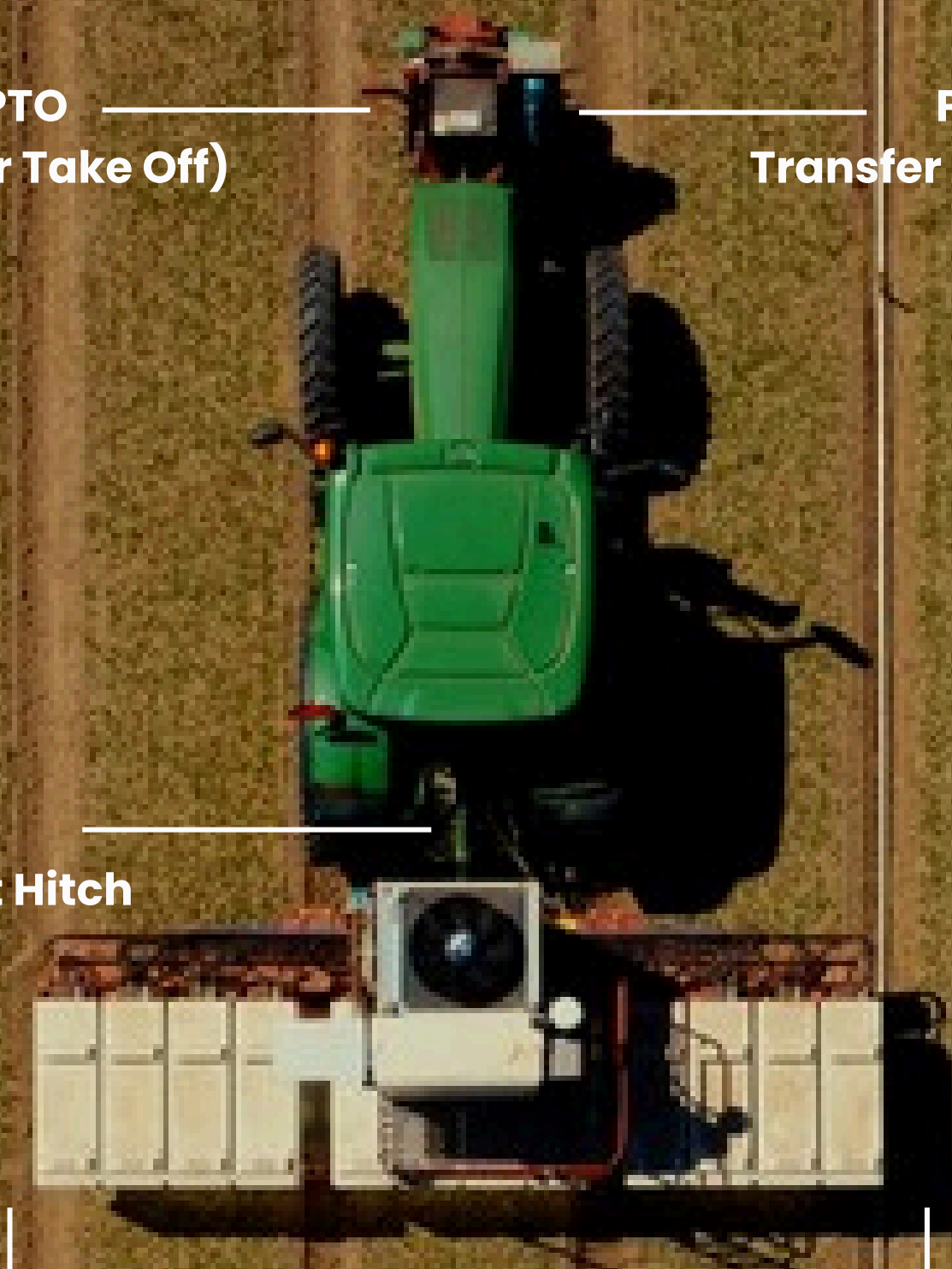
- 2 x 240W diode lasers
- 3 x high-resolution cameras
- 2 x NVIDIA graphic processing units
- 20 x high-intensity LED lights
- 21" (61 cm) laser shoot width

LASERWEEDER & TRACTOR SETUP

**Front PTO
(Power Take Off)**

**Power
Transfer Cable**

**CAT 3
3 Point Hitch**



LaserWeeder Implement

LASERWEEDER G2 PRODUCT LINE



G2 200

Compact model for smaller farms and easy transport. Also available for high-tunnel farming.

Unit Width: 9 ft / 2.7 m

Coverage: 0.40 – 0.70 ac/hr / 0.16 – 0.28 ha/hr



G2 300

Configured for a wide range of global field layouts and wheel spacing.

Unit Width: 11 ft / 3.5 m

Coverage: 0.75 – 1.50 ac/hr / 0.30 – 0.61 ha/hr



G2 400

Mid-sized model designed for diverse crop types and field layouts.

Unit Width: 15 ft / 4.6 m

Coverage: 0.80 – 1.60 ac/hr / 0.32 – 0.65 ha/hr



G2 600

Next generation of our flagship unit, ideal for large-scale specialty vegetable and herb growers.

Unit Width: 21 ft / 6.4 m

Coverage: 1.50 – 3.00 ac/hr / 0.61 – 1.21 ha/hr



LASERWEEDER G2 200 - 4 MODULE

UNIT SPECS

- Dimensions (W x D x H): 110 x 85 x 127 in.
/ 2.79 x 2.15 x 3.22 m
- Weight: 4,650 lbs / 2,109 kgs
- Adjustable row spacing: Over 72 in. up
to 90 in. / Over 183 cm up to 229 cm



TRACTOR REQUIREMENTS

- CAT 3 3-point hitch
- Front PTO generator power supply
- Minimum tractor horsepower: 110 hp
- Minimum rated PTO Power: 40 hp
- Minimum lift capacity: 6,500 lbs /
2,948 kgs
- Variable transmission: IVT, CVX, and
CVT

WARRANTY & SUPPORT

- 1 year warranty
- 24/7 software and remote support
- Service & Support Plans for years 2+

PERFORMANCE

- Covers 0.40-0.70 ac/hr / 0.16-0.28 ha/hr
- Max Weeds Shot per Minute: 3,333
- Sub-millimeter accuracy
- Kills up to 99% of weeds

TECHNOLOGY

- 4 modules
- 8 x 240W diode lasers
- 12 high-resolution cameras
- 80 high-intensity LED lights
- 100+ crop models
- iPad Operator App
- Carbon Ops Center: Performance, crop,
and weed metrics
- Mobile Carbon Companion App: Real-
time monitoring, location, and activity



CLASS 4 LASER PRODUCT
DANGER - INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION



LASERWEEDER G2 300 - 6 MODULE

UNIT SPECS

- Dimensions (W x D x H): 138 x 93 x 142 in.
/ 3.50 x 2.36 x 3.60 m
- Weight: 5,600 lbs / 2,540 kgs
- Adjustable Row spacing: 59-124 in /
150-315 cm



TRACTOR REQUIREMENTS

- CAT 3 3-point hitch
- Front PTO generator power supply
- Minimum tractor horsepower: 110 hp
- Minimum rated PTO Power: 40 hp
- Minimum lift capacity: 7,937 lbs /
3,600 kgs
- Variable transmission: IVT, CVX, and
CVT

WARRANTY & SUPPORT

- 1 year warranty
- 24/7 software and remote support
- Service & Support Plans for years 2+

PERFORMANCE

- Covers 0.75-1.50 ac/hr / 0.30-0.61 ha/hr
- Max Weeds Shot per Minute: 5,000
- Sub-millimeter accuracy
- Kills up to 99% of weeds

TECHNOLOGY

- 6 modules
- 12 x 240W diode lasers
- 18 high-resolution cameras
- 120 high-intensity LED lights
- 100+ crop models
- iPad Operator App
- Carbon Ops Center: Performance, crop,
and weed metrics
- Mobile Carbon Companion App: Real-
time monitoring, location, and activity



CLASS 4 LASER PRODUCT

DANGER - INVISIBLE LASER RADIATION
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LASERWEEDER G2 400 - 8 MODULE

UNIT SPECS

- Dimensions (W x D x H): 180 x 85 x 135 in. / 4.57 x 2.16 x 3.43 m
- Weight: 6,000 lbs / 2,722 kgs
- Adjustable Row spacing: Over 72 in. up to 80 in. / Over 183 cm up to 203 cm



TRACTOR REQUIREMENTS

- CAT 3 3-point hitch
- Front PTO generator power supply
- Minimum tractor horsepower: 145 hp
- Minimum rated PTO Power: 80 hp
- Minimum lift capacity: 7,500 lbs / 3,402 kgs
- Variable transmission: IVT, CVX, and CVT

WARRANTY & SUPPORT

- 1 year warranty
- 24/7 software and remote support
- Service & Support Plans for years 2+

PERFORMANCE

- Covers 0.80-1.60 ac/hr / 0.32-0.65 ha/hr
- Max Weeds Shot per Minute: 6,667
- Sub-millimeter accuracy
- Kills up to 99% of weeds

TECHNOLOGY

- 8 modules
- 16 x 240W diode lasers
- 24 high-resolution cameras
- 160 high-intensity LED lights
- 100+ crop models
- iPad Operator App
- Carbon Ops Center: Performance, crop, and weed metrics
- Mobile Carbon Companion App: Real-time monitoring, location, and activity



CLASS 4 LASER PRODUCT
DANGER - INVISIBLE LASER RADIATION
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LASERWEEDER G2 600 - 12 MODULE

UNIT SPECS

- Dimensions (W x D x H): 251 x 85 x 135 in.
/ 6.38 x 2.16 x 3.43 m
- Weight: 7,200 lbs / 3,266 kgs
- Adjustable row spacing: Over 72 in. up to 90 in. / Over 183 cm up to 229 cm



TRACTOR REQUIREMENTS

- CAT 3 3-point hitch
- Front PTO generator power supply
- Minimum tractor horsepower: 145 hp
- Minimum rated PTO Power: 100 hp
- Minimum lift capacity: 8,500 lbs / 3,856 kgs
- Variable transmission: IVT, CVX, and CVT

WARRANTY & SUPPORT

- 1 year warranty
- 24/7 software and remote support
- Service & Support Plans for years 2+

PERFORMANCE

- Covers 1.50-3.00 ac/hr / 0.61-1.21 ha/hr
- Max Weeds Shot per Minute: 10,000
- Sub-millimeter accuracy
- Kills up to 99% of weeds

TECHNOLOGY

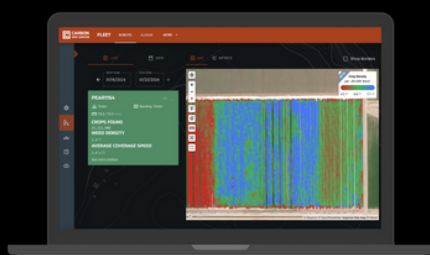
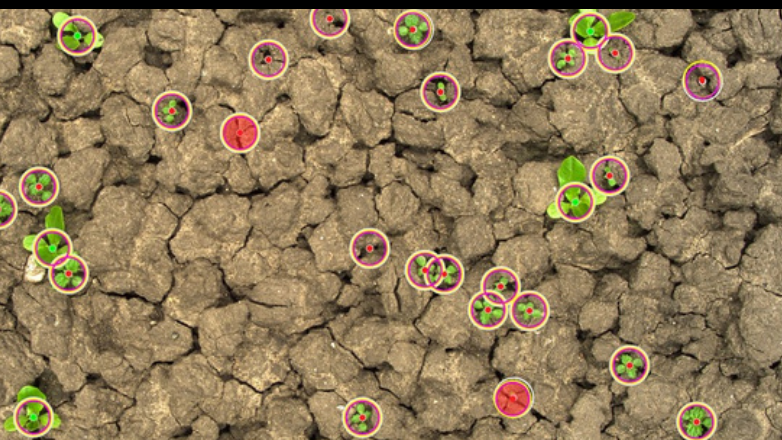
- 12 modules
- 24 x 240W diode lasers
- 36 high-resolution cameras
- 240 high-intensity LED lights
- 100+ crop models
- iPad Operator App
- Carbon Ops Center: Performance, crop, and weed metrics
- Mobile Carbon Companion App: Real-time monitoring, location, and activity



CLASS 4 LASER PRODUCT
DANGER - INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION

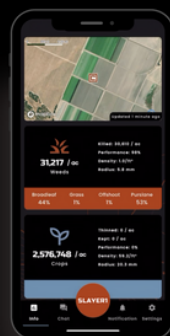
CARBON AI

The most advanced deep learning system for plant detection and identification built on our dataset of over 40 million plants labeled.



CARBON OPS CENTER

- Post-weeding crop and weed spatial data
- LaserWeeder reports



CARBON COMPANION APP

- Real-time LaserWeeder status, location, and performance data
- Get technical support



IPAD OPERATOR APP

- Control and customize LaserWeeder
- Get technical support

CARBON SUPPORT



24/7 Remote Support

Expert assistance at your fingertips every day of the week.

Rapid Response

We prioritize fast responses, understanding the LaserWeeder's critical role in your system.

Putting You in Control

Grower-owned preventative maintenance for enhanced self-sufficiency.



**"IF WE HAVE A PROBLEM, WE TALK TO
CARBON AND THE PROBLEM GETS SOLVED."**

Jack Orr, Operations Manager, Kerr Farms

LASERWEEDER



TRUSTED BY OVER 100 GROWERS IN 13 COUNTRIES

