



VERDAMACHINA

Product brochure · 2026



VERSATILE AUTONOMOUS FIELD ROBOT

FJD ROUGH RANGER

The versatile field robot: one autonomous platform for mowing, ball collecting, line marking, grass collecting and dew removal.

Cutting width: 635 mm

Cutting height: 20-120 mm

Up to 12,000 m²/charge

Slopes up to 20°

One platform. Five tasks.

The FJD Rough Ranger combines five tasks on one autonomous platform. Swap the module, not the machine: mowing, ball collecting, line marking, grass collecting and dew removal, with RTK and LiDAR navigation and 360° safety.

635 mm

cutting width

12,000 m²

per charge

5 h

runtime

20°

max. slope

What the machine does

- ✓ Mowing
- ✓ Ball collecting
- ✓ Line marking
- ✓ Grass collecting
- ✓ Dew removal

Ideal for

Golf courses

Football clubs

Leisure parks

Schools & universities

Taken care of, from Belgium

- ✓ Free field audit and ROI calculation
- ✓ Installation, training and service from Belgium
- ✓ Purchase or lease



FEATURES

Built for the field.



FEATURE 01

108,000 m²

IN 72 HOURS WITH FAST CHARGING

RTK + LiDAR navigation

Fusion of RTK-GPS and LiDAR keeps the machine reliably on course, even under trees or with a weak signal.

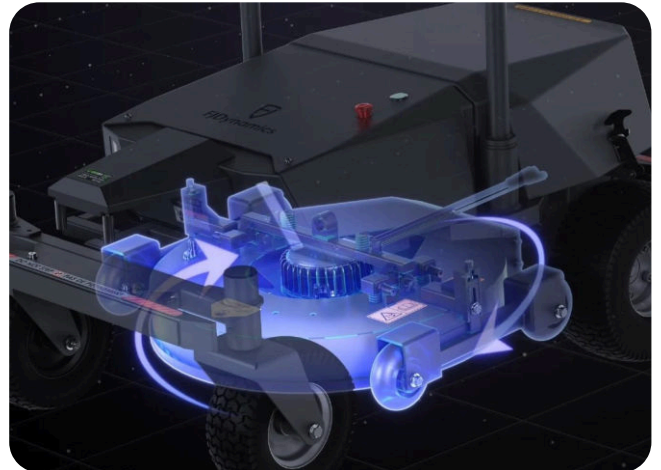
FEATURE 02

20-120 mm

CUTTING HEIGHT

Floating cutting deck

The floating cutting deck follows the ground for an even cut with less scalping.



FEATURE 03

360°

LIDAR AND BUMPERS

360° safety

360° LiDAR works together with front and rear bumpers for safe, autonomous operation around obstacles.

EXPANDABLE WITH MODULES

One machine, five tasks.

The Rough Ranger mows as standard. With four FJD attachments, the same machine also takes over ball collecting, line marking, grass collecting and dew brushing. You choose the modules you need and add others later.



BALL COLLECTING

FJD BP02 Ball Picker Kit

Turns the Rough Ranger into an autonomous ball picker for driving ranges.

3,000

balls per hour

36,000

balls per charge

12 h

picking time per
charge



LINE MARKING

FJD LM03 Line Marker Kit

Turns the Rough Ranger into an autonomous line-marking robot for sports fields.

25 L

paint tank

20

full-size football
pitches per
charge

50%+

less paint than
manual marking



GRASS COLLECTING

FJD GC01 Grass Collector Kit

Mowing and clearing in a single pass, on artificial turf too.

800 mm

collection width

150 L

maximum
collection volume

3

brush speeds



DEW BRUSHING

FJD DB01 Dew Brush Kit

Autonomous dew brushing for greens and fairways.

2,930 mm

brush width with
three sections

28 kg

weight of the kit

IPX4

protection

The modules in figures.

FJD BP02 Ball Picker Kit

PICKING WIDTH	900 mm
MAX. BALLS PER HOUR	3,000
MAX. BALLS PER CHARGE	36,000
MAX. PICKING TIME PER CHARGE	12 h
CAPACITY PER BASKET	1,000 golf balls
WEIGHT	120 kg

FJD GC01 Grass Collector Kit

COLLECTION WIDTH	800 mm
MAX. COLLECTION VOLUME	150 L
COLLECTION HEIGHT	20-50 mm
BRUSH SPEED	300 / 400 / 500 rpm
MAX. SLOPE	8°
WEIGHT	100 kg

FJD LM03 Line Marker Kit

LINE WIDTH	50-170 mm
PAINT TANK	25 L
MAX. MARKING TIME PER CHARGE	20 h
MAX. MARKING SPEED	3 km/h
NOZZLE HEIGHT	30-120 mm
WEIGHT (EXCLUDING PAINT)	32 kg

FJD DB01 Dew Brush Kit

BRUSH LENGTH, THREE SECTIONS	2,930 mm
BRUSH LENGTH, SINGLE SECTION	1,000 mm
BRUSH LIFT	Supported
BRUSH FOLDING	Supported
WEIGHT	28 kg
IP RATING	IPX4

WHICH MODULE FOR WHICH GROUNDS?

	GOLF: FAIRWAYS AND GREENS	GOLF: DRIVING RANGE	SPORTS FIELDS	ARTIFICIAL TURF	PARKS
Ball collecting	●	✓	●	●	●
Line marking	●	●	✓	●	●
Grass collecting	✓	●	✓	✓	✓
Dew brushing	✓	●	●	●	●

Specifications from FJDynamics. Every module fits the FJD Rough Ranger and can also be added later.

EXAMPLE: A DAY ON THE GOLF COURSE

MORNING

Dew brushing

With the DB01, before the first players go out on the course.

DURING THE DAY

Mowing and collecting

With the GC01 in one pass, outside the busiest playing hours.

EVENING

Ball collecting

With the BP02 on the driving range, after closing time.

The specifications.

CUTTING WIDTH	635 mm
CUTTING HEIGHT	20-120 mm
MAX. COVERAGE PER CHARGE	12,000 m ²
MAX. PER 72 H (FAST CHARGING)	108,000 m ²
MAX. PER 72 H (STANDARD CHARGING)	93,600 m ²
MAX. CLIMBING ABILITY	20°
RECOMMENDED WORKING SLOPE	15°
TRAVEL SPEED	0-6 km/h
WEIGHT (INCL. BATTERY)	170 kg
DIMENSIONS	1345 × 855 × 970 mm
BATTERY CAPACITY	4 kWh
VOLTAGE	48 V DC
MAX. RUNTIME	5 h
CHARGING TIME (STANDARD)	5 h
CHARGING TIME (FAST CHARGING)	3 h
IP RATING	IPX4
OPERATING TEMPERATURE	0-45 °C

Specifications of the underlying robot platform. Coverage and runtime are values under standard test conditions; actual results depend on terrain, turf and weather. Subject to change.

Included as standard

- Flat blade
- Discharge blade
- Charging station

Smart, safe and **autonomous**.

All machines work with a digital map of your grounds, accurate positioning and an app or tablet with which you manage zones and tasks yourself.

Positioning

RTK + LiDAR

This keeps the machine precisely on its planned path, run after run.

Digital map

The site is measured or scanned once, after which the machine works from that map.

App and follow-up

Start tasks and follow progress in the app or on the tablet.

Electric

Fully electric, with no emissions on site.

Service from Belgium

Installation, training and maintenance by VerdaMachina.

Free field audit

Honest advice on the right model, on your own grounds.

FROM SCAN TO RESULT

01

Scan

Site mapped

02

Zones

Boundaries and no-go zones

03

Plan

Tasks and times

04

Autonomous

The machine works

05

Report

Result per run



SERVICE & NEXT STEP

One Belgian **point of contact.**

Essential

Response within 24 hours · 1× preventive maintenance per year · remote updates

Assured

Response within 24 hours · technician next business day · 2× preventive maintenance

Carefree

Response within 24 hours · 4× preventive maintenance · wear parts included

01

Free field audit

We look at your grounds and calculate your payback period.

02

Demo or pilot

The machine at work, live, on your own field.

03

Installation & service

Scanning, training and support from Belgium.



See the FJD Rough Ranger on your own field.

Book a free demo at verdamachina.be/demo or contact us directly.

PHONE

+32 495 79 65 98

EMAIL

info@verdamachina.be

WEB

www.verdamachina.be

ADDRESS

**Blankenbergse Steenweg 10,
8377 Zuienkerke, Belgium**



Scan to book a demo