



FJDynamics

FJD Vela

LiDAR Robotic Mower



A better lawn, made effortless.

Quick setup. Easy start.

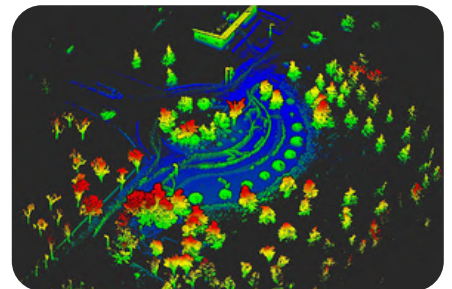
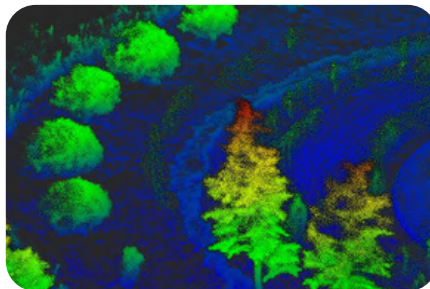
No wires. No base station.

Guide Vela around your yard once to create virtual work zones and no-go zones. No buried perimeter wires, fewer maintenance needs, and no extra base stations for unreliable satellite signals.



Sees your yard completely¹

Vela uses LiDAR to build a 3D map of your yard, helping it navigate, plan clean mowing paths, and return to charge automatically.



Knows where to mow¹

Vela recognizes grass and understands the areas to maintain. That helps it stay out of bushes, driveways, flowerbeds, play equipment, and anything that is not lawn.



¹ Images are for illustration only. LiDAR and vision data are not accessible to users or FJD unless permission is granted for troubleshooting. Vela uses this data to navigate, plan routes, and avoid obstacles. Actual performance may vary.

Smarter Lawn Care, Made Simple

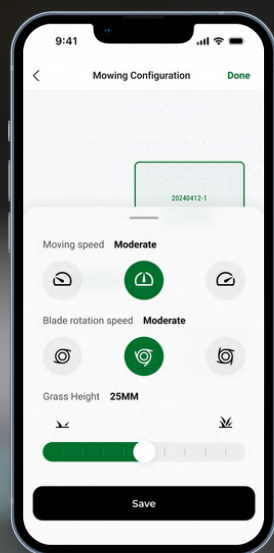
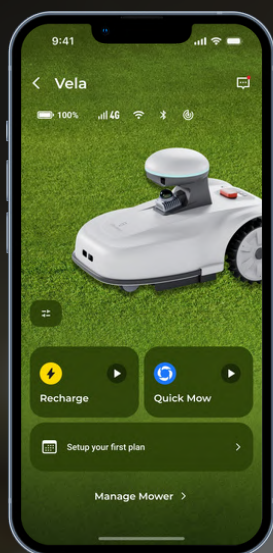
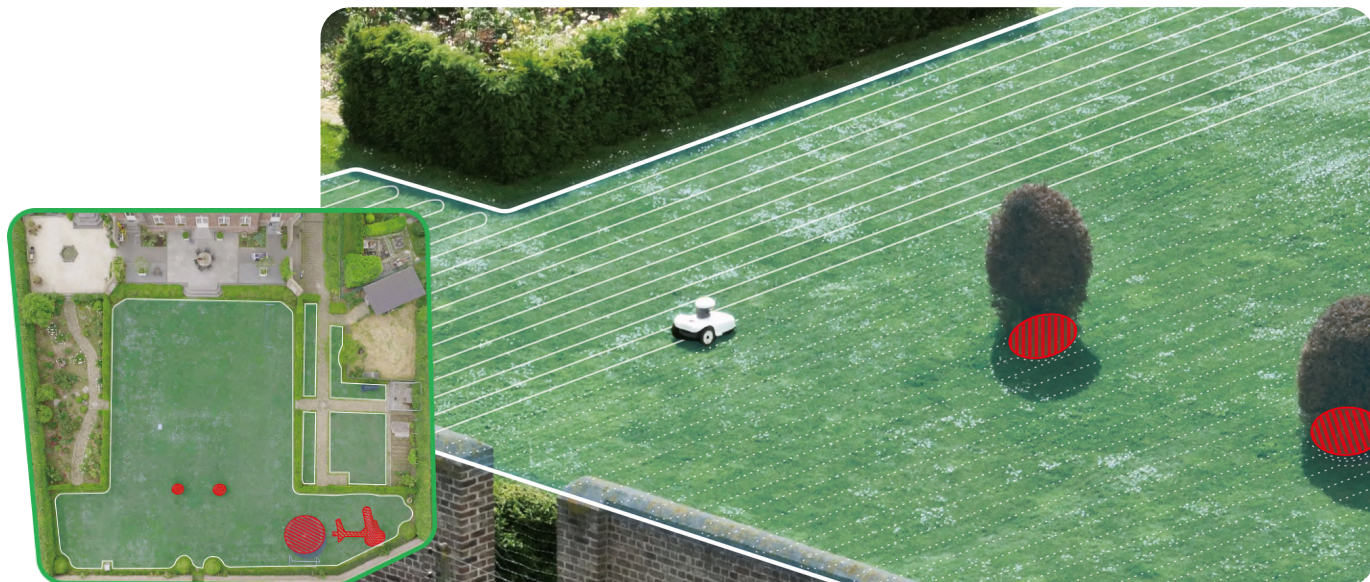
Neater lawn, healthier growth

Vela keeps your lawn neatly trimmed on your schedule, maintaining a lush, even look all season. Fine clippings stay on the grass as natural mulch to support healthier growth.



Precision in every trim

With advanced LiDAR and vision sensor fusion, Vela maps your yard, detects obstacles, avoids them smoothly, and plans efficient mowing routes on its own.



Relax. Vela handles the mowing.

Use smart scheduling to let Vela mow autonomously. Set custom plans in the app, then let it take care of the lawn.

Your lawn. Your way.

Adjust mowing height and speed to match your lawn. Choose the pattern you prefer and monitor each job from your phone.

Work Less. Enjoy More.



Rain starts. Vela pauses.

A built-in rain sensor tells Vela when to pause or skip scheduled mowing.



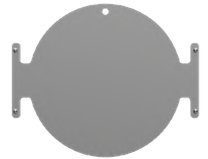
Easy to clean

IPX5 water resistance makes cleanup easy. Just rinse Vela with a garden hose² to wash away grass and debris.

² Tested under ideal conditions: water sprayed from any angle, below 30 kPa pressure, at a distance of 3 meters.

Quick blade maintenance

Remove the cutting deck to swap the blade assembly fast. Unscrew to rotate or replace blades. Retractable blades help reduce damage from small impacts, like rocks or twigs.



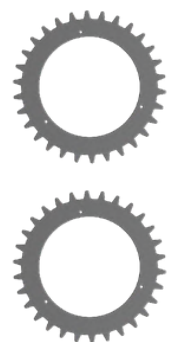
Climbs slopes up to 65%

Vela climbs slopes up to 65% or 33°, while the cutting deck follows lawn contours to help protect the grass.



Grip for sloped lawns

Vela's wheels are built for confident movement on slopes. Add wheel spikes for extra traction on wet grass and better stability on inclines.



Wheel Spikes

SPECIFICATIONS

Complete Unit	
Weight	13.5 kg (30 lb)
Dimensions	632 × 440 × 412 mm (25 × 17.3 × 16.2 in.)
Positioning technology	LiDAR + RGB Vision Sensor Fusion
Noise level	<60 dB
Connectivity	4G (SIM card not included), Wireless connectivity
Software update	OTA
IP rating	Mower: IPX5 Charging station: IP65
Rain sensor	Yes
Lift sensor	Yes
Collision sensor	Yes
Mowing Capability	
Recommended mowing area*	24 h max coverage: 4000 m ² (1 acre)
Max climbing slope*	33° (65%)
Max mowing slope*	25° (47%)
Boundary type	Virtual boundary
Mowing pattern	Customizable in FJD Landscaping®
Cutting System	
Cutting width	260 mm (10 in.)
Cutting height	Standard: 20–60 mm (0.8–2.4 in.) High-cut version: 40–80 mm (1.6–3.2 in.)
Battery & Charging	
Batteries	95 Wh × 2
Working time per charge	Up to 4 h
Charging time	1h 50m (10% → 100%) 1h 30m (20% → 100%)
Factory Configuration	
    Cutting Blades Wheel spikes Plastic pegs Screws	

*Mowing area is a theoretical value under standard test conditions. Actual efficiency may vary with terrain and grass conditions.

*Working slope depends on site conditions. On slopes, routes should be planned primarily uphill/downhill. Cross-slope mowing should be avoided or used with caution.

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FJDynamics.com



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