



POWERED BY KEENON FJDynamics Sveaverken

FJD RM21

Multi-Functional Robotic Mower

All-in-One Solution for a New Era of Turf Care



www.ineedrobot.eu



ineedrobot@roboti-adria.eu

The FJD RM21 is a powerful and versatile robotic mower that makes field management simple. With quick attachment changes, it performs multiple tasks using a single machine, including mowing, line marking, grass collection, and ball picking.

This versatility enables efficient and cost-effective operations across sports fields, golf courses, and sod farms.



LM01 LINE MARKER KIT



GC01 GRASS COLLECTOR KIT



BP01 BALL PICKER KIT



DB01 DEW BRUSH KIT



SMART CONTROL, HASSLE-FREE PERFORMANCE

Intelligent Path Planning

Plan optimal routes automatically within a defined work area. Automatically plan optimal routes within a defined work area, ensuring your turf is perfectly maintained.

Multi-Zone Management

Run a single task across multiple zones. Ideal for large golf courses and stadiums.

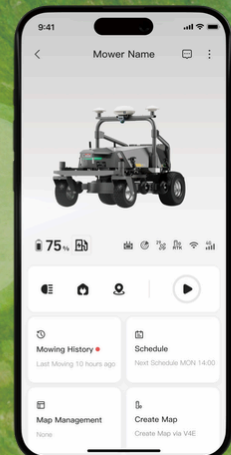
Fleet Management

Assign tasks from the cloud and enable multiple robots to work together, completing large-area jobs with ease.

Up to 93,600 m²
in 3 Days

Remote App Control

Monitor machine status, create tasks, and manage operations from your phone anytime, anywhere.



WORRY-FREE OPERATION, ALL-DAY SAFETY



No Signal Worries

Utilizing RTK and LiDAR fusion, the FJD RM21 delivers reliable performance even under tree canopies and in areas with weak GNSS signals.



Multi-Layer Safety Protection

Real-time 360° LiDAR obstacle detection, combined with front and rear physical bumpers, ensures safer autonomous operation.

Specifications

Complete Unit		
Weight		170 kg (375 lb)
Dimensions		1330 × 853 × 980 mm / 52.4 × 33.6 × 38.6 in.
IP rating		IPX4
Operating temperature		0–45 °C (32–113 °F)
Cutting System		
Max mowing area (in 72 hours)		Fast charging mode: 108,000 m ² (26.7 acres)
		Standard charging mode: 93,600 m ² (23.1 acres)
Max mowing area per charge		12,000 m ² / 3 acres
Cutting height		20–127 mm / 0.8–5 in.
Cutting width		635 mm / 25 in.
Max climbing ability		20°
Recommended working slope		15°
Travel speed		0–6 km/h / 0–3.7 mph
Battery & Charging		
Battery capacity		4 kWh
Max working time		5 h
Charging time		Standard charging: 5 h
		Fast charging: 3 h

Notes: 1. Use the lowest cutting height of 20 mm (0.8 in.) only on flat surfaces. On uneven terrain, set the cutting height to at least 30 mm (1.2 in.).
2. Actual working area depends on grass type, soil conditions, cutting height, and terrain slope.

COMBO 1 – RM21 + LM01 LINE MARKER KIT

Paired with the LM01 Line Marker Kit, the RM21 delivers exceptional line-marking precision and efficiency across a wide range of sports fields, significantly reducing labor requirements and paint consumption.

Less Input, Greater Output



Reduce paint usage
by **50%+**



Cut labor costs by
up to **90%**

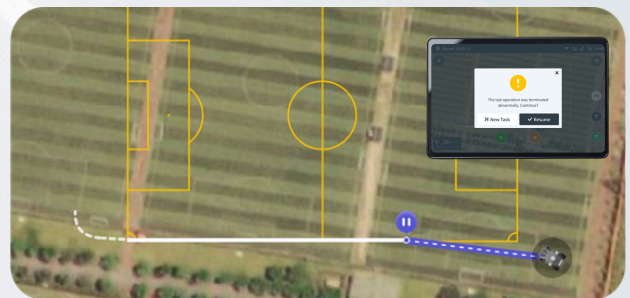


Mark up to **20** full-size
fields per charge

EASY TO USE, BUILT FOR MULTIPLE FIELDS

Seamless Line-Marking Resume

Whether switching between fields or pausing to refill paint, the robot resumes precisely where it left off, with no overlaps and no wasted paint.



One-Tap Autonomous Operation

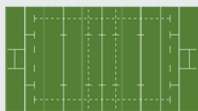
Start the daily line-marking workflow with a single tap, no manual intervention required.



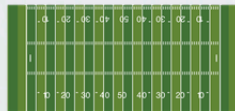
APPLICATION SCENARIOS



Soccer



Rugby



American Football



Baseball



Lacrosse



Other Sports Fields

LM01

Weight	68 kg (150 lb)
Dimensions	684 × 562 × 432 mm / 27 × 22.1 × 17 in.
IP rating	IPX4
Max marking speed	3 km/h / 1.9 mph
Paint tank capacity	25 L / 5.5 gal
Line width range	50–170 mm / 2–6.7 in.
Nozzle height	30–80 mm / 1.2–3.1 in.
Operating temperature	5–35 °C (41–95 °F)
Max marking time per charge	20 h

COMBO 2 – RM21 + GC01 GRASS COLLECTOR KIT

Paired with the GC01 Grass Collector Kit, the RM21 delivers a fully automated lawn maintenance workflow: it mows the grass, collects clippings, and automatically dumps the collected material.

AUTONOMOUS TURF CLEANING



Automated Grass Collection & Disposal

Collect grass clippings and leaves while mowing, or perform an intelligent cleanup pass immediately afterward, combining mowing and cleanup into one seamless process.



Artificial Turf Cleaning

Automatically remove debris from both natural and artificial turf, eliminating the need for manual cleanup.

Professional Lawn Striping

Create clean light-and-dark striping patterns with precise mowing control, enhancing the visual appeal of your turf.



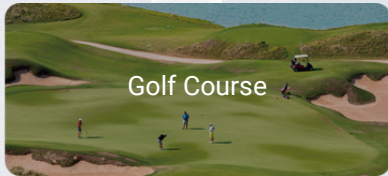
APPLICATION SCENARIOS



Sports Fields



Artificial Turf



Golf Course

GC01		
Weight		100 kg (220 lb)
Dimensions		1260 × 960 × 740 mm / 49.6 × 37.8 × 29.1 in.
Grass collection height		20–50 mm / 0.8–2.0 in.
Collection width		800 mm / 31.5 in.
Max travel speed		3 km/h / 1.9 mph
Max collection capacity		150 L / 33 gal
Max climbing ability		8°
IP rating		IPX4
Operating temperature		0–45 °C (32–113 °F)

COMBO 3 – RM21 + BP01 BALL PICKER KIT

Equipped with the BP01 Ball Picker Kit, the RM21 enables fully autonomous ball collection. It gathers golf balls across the driving range, detects when the baskets are full, and automatically returns to the designated drop-off point for unloading.



Full-Basket Detection & Auto-Return

When the basket reaches full capacity, the robot automatically returns to the designated drop-off point, ensuring continuous, hands-free operation.

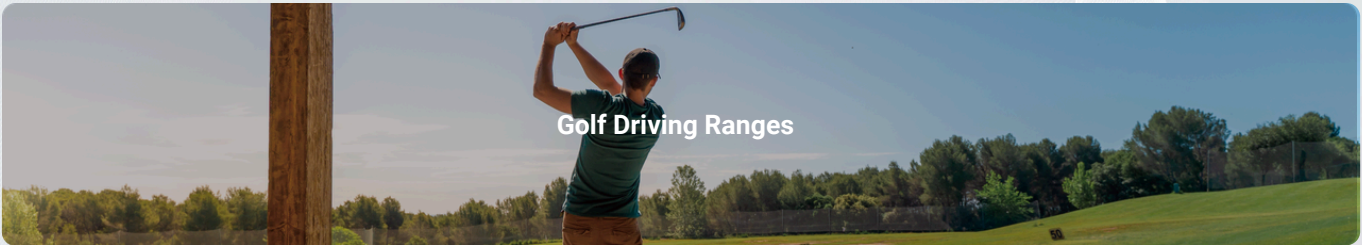
Cloud Scheduling for Full-Course Coverage

Monitor each robot's location, battery level, and ball basket capacity in real time from the cloud. Multiple robots can work together seamlessly to provide complete coverage of the entire driving range.

Lower Costs, Higher Efficiency

Enable fully autonomous ball collection to reduce labor requirements and improve operational efficiency.

APPLICATION SCENARIOS



BP01	
Weight	70 kg (154 lb)
Dimensions	1480 × 1120 × 590 mm / 58.3 × 44.1 × 23.2 in.
Picking width	900 mm / 35.4 in.
Basket count	2
Capacity per basket	400 golf balls

COMBO 4 – RM21 + DB01 DEW BRUSH KIT

Paired with the DB01 Dew Brush Kit, the RM21 streamlines morning turf maintenance by automatically lifting and folding the brush, evenly removing dew, and keeping the turf clean and ready for play.



Smart Lifting & Folding

The brush automatically lifts and folds during transport, turns, and transitions between work areas, helping avoid obstacles and ensuring smooth, uninterrupted operation.



Customizable Brushing Direction

Adjust the brushing direction to ensure even dew removal, leaving the turf cleaner and giving it a more refined, professional appearance.

Superior Playing Conditions

Maintain a smooth, consistent playing surface for fast, predictable ball roll and an exceptional golfing experience.



APPLICATION SCENARIOS



DB01	
Weight	28 kg (61.7 lb)
Length	Single section: 1000 mm / 39.4 in.
	Three sections: 2930 mm / 115.4 in.
Brush lift	Supported
Brush folding	Supported



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FJDynamics



Sveaverken

Roboti Adria Group d. o. o.

Dunajska cesta 158, 1000 Ljubljana, Slovenia



www.ineedrobot.eu



ineedrobot@roboti-adria.eu