

FJD Landscaping Product Catalogue

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CREATE FOR A BETTER WORLD

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Progress Highlights

10+ Global Offices
1,500+ Associates Worldwide
50% R&D Team Members
800+ Invention Patents
140+ Countries Sold Worldwide
3,000+ Global Partners
200,000 Real Users

CREATE FOR A BETTER WORLD

FJDynamics is a robotics company focused on digitalization, automation, and new energy. We are committed to creating practical and affordable robots for the most labor-intensive industries and using our technology to drive AI adoption across sectors for improved productivity and working environment. Today, our solutions are widely applied in agriculture, landscaping, construction, surveying, and facility services. As our business expands globally, we are excited to collaborate with partners and clients to create a better future for the world.

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Landscaping

FJDynamics Landscaping provides robotic solutions for outdoor and commercial maintenance, covering golf courses, sports fields, landscaping, and commercial cleaning. Powered by robotics, automation, mapping, and AI technologies, our solutions include robotic mowers, line-marking robots, and cleaning robots that help maintenance teams reduce repetitive manual work, improve daily operating efficiency, and deliver more consistent results across a wide range of environments.

Commercial Robotic Mowers



RCM01



RM21



Titan



FRX

RCM01

Robotic Cylinder Mower

Perfection on Every Blade. Autonomy in Every Corner.

Precision Cutting

Achieve clean, scissor-like cuts with a reel cutting system, minimizing leaf tearing and promoting healthier turf growth.

Dynamic Terrain Adaptability

The floating cutting unit automatically follows turf contours, helping maintain a consistent cut and prevent turf scalping.

Professional-Grade Striping

Creates clean, high-contrast stripes using precision rollers, with adjustable striping widths to match your course presentation.

Do More with Less

One operator can manage multiple mowers remotely, allowing teams to focus on higher-value work.

Reduce Labor Costs

by up to **90%**

Reduce Energy Costs

by up to **80%**



Specifications

Dimensions	1905 × 1077 × 1077 mm (75 × 42.4 × 42.4 in.)
Weight	364 kg (802.5 lb)
Max Mowing Area per Charge	30,000 m ² (7.4 acres)
Max Mowing Area in 24 Hours	48,000 m ² (12 acres)
Max Mowing Area in 72 Hours	144,000 m ² (35.6 acres)
Cutting Height	7–44 mm (0.28–1.73 in.)
Cutting Width	685 mm (27 in.)
Battery Capacity	8 kWh
Runtime per Charge	10 h
Charging Time	5 h
Max Working Slope	15°
Sensors	RTK, LiDAR, Vision
IP Rating	IPX4

RM21

Multi-Functional Robotic Mower

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

One Machine, Multiple Applications

Quickly switch between kits to handle mowing, line marking, grass collecting, ball picking, and dew brushing with one machine.

Reliable Operation in Weak-Signal Areas

RTK and LiDAR work together to support reliable operation under trees and in other weak-signal areas.

Multi-Zone Management

Assign one task across multiple zones, making it easier to manage large golf courses and sports facilities.

Intelligent Path Planning

Plan optimal routes automatically within a defined work area, ensuring consistent turf maintenance.



Specifications

Dimensions	1330 × 853 × 980 mm (52.4 × 33.6 × 38.6 in.)
Weight	170 kg (375 lb)
Max Mowing Area per Charge	12,000 m ² (3.0 acres)
Max Mowing Area in 24 Hours	Fast charging mode: 36,000 m ² (8.9 acres) Standard charging mode: 31,200 m ² (7.7 acres)
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)
Cutting Height	20–127 mm (0.8–5 in.)
Cutting Width	635 mm (25 in.)
Battery Capacity	4 kWh
Runtime per Charge	5 h
Charging Time	Standard: 5 h / Fast: 3 h
Max Working Slope	15°
Sensors	RTK, LiDAR, Vision
IP Rating	IPX4

RM21 + LM01 Line Marker Kit

- One-Tap Autonomous Operation
- Resume Line Marking Seamlessly
- Lower Input. Higher Field Output.
 - Reduce paint usage by 50%
 - Cut labor costs by up to 90%
 - Mark up to 20 full-size fields per charge



RM21 + BP01 Ball Picker Kit

- Full-Basket Detection & Auto-Return
- Cloud Scheduling for Full-Course Coverage
- Cut Manual Work Across the Range



RM21 + GC01 Grass Collector Kit

- Automated Grass Collection & Disposal
- Debris Collection on Artificial Turf
- Course-Grade Turf Striping



RM21 + DB01 Dew Brush Kit

- Automatic Lifting & Folding
- Customizable Brushing Direction
- Dew Brushing for Consistent Ball Roll



Specifications

LM01

Weight	68 kg (150 lb)
Dimensions	684 × 562 × 432 mm (27 × 22.1 × 17 in.)
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.)
Max Marking Time per Charge	20 h
IP Rating	IPX4
Operating Temperature	5–35 °C

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.)
Number of Baskets	2
Capacity per Basket	400 golf balls

GC01

Weight	100 kg (220 lb)
Dimensions	1260 × 960 × 740 mm (49.6 × 37.8 × 29.1 in.)
Collection Height Range	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 Volume	150 L (33 gal)
Max Climbing Ability	8°
IP Rating	IPX4
Operating Temperature	0–45 °C

DB01

Weight	28 kg (61.7 lb)
Length — Single Section	1000 mm (39.4 in.)
Length — Three Sections	2930 mm (115.4 in.)
Brush Lift	Supported
Brush Folding	Supported

Titan

Robotic Mower

Elite 2-in-1 Turf Care. Without the Elite Price.

Triple-Sensor Guidance System

Dual-antenna RTK GNSS, LiDAR, and Vision work together for stable positioning and obstacle avoidance.

Wide-Cut Productivity

The 730 mm (28.74 in.) cutting width supports high mowing output, covering 36,000 m² / 9 acres per day.

Adjustable Cutting Height

Adjust cutting height from 10–100 mm (0.4-4 in.) via the app to match turf type and season.

Titan + Line Marker Kit

Paired with the line marker kit, the Titan delivers exceptional line-marking precision and efficiency.

- Reduce paint usage by **50%+**
- Cut labor costs by up to **90%**
- Mark up to **10** standard soccer fields per charge



Specifications

Dimensions	1400 × 1050 × 650 mm (55.1 × 41.3 × 25.6 in.)
Weight	122 kg (287 lb)
Max Mowing Area per Charge	18,000 m ² (4.4 acres)
Max Mowing Area in 24 Hours	36,000 m ² (9 acres)
Max Mowing Area in 72 Hours	108,000 m ² (26.7 acres)
Cutting Height	10–100 mm (0.4–4 in.)
Cutting Width	730 mm (28.74 in.)
Battery Capacity	2 kWh
Runtime per Charge	8 h
Charging Time	2 h
Max Working Slope	25°
Sensors	RTK, LiDAR, Vision
IP Rating	IP64



FRX

Robotic Mower

Professional Turf Management Made Affordable.

Conquer 30° Slopes with Ease

With a high-performance motor and compact chassis, FRX supports stable mowing on slopes up to 30°.

10–100 mm Adjustable Cutting Height

Adjust the cutting height from 10–100 mm (0.4–4.0 in.) to suit roughs, sports fields, and seasonal turf conditions.

Flexible Charging Options

Fast battery swapping for 24/7 mowing. Auto-charging for fully unmanned operation.

Multi-Field Management

FRX can manage mowing tasks across multiple sports fields and move between assigned areas after each task is completed.

Specifications

Dimensions	1278 × 782 × 740 mm (50.3 × 30.8 × 29.1 in.)
Weight	83.7 kg (184.53 lb)
Max Mowing Area per Charge	8,000 m ² (2 acres)
Max Mowing Area in 24 Hours	32,000 m ² (8 acres)
Max Mowing Area in 72 Hours	96,000 m ² (23.7 acres)
Cutting Height	10–100 mm (0.4–4 in.)
Cutting Width	520 mm (20.5 in.)
Battery Capacity	1 kWh
Runtime per Charge	5.3 h
Charging Time	2.5 h
Max Working Slope	30°
Sensors	RTK, Vision
IP Rating	IPX5



Robotic Line Markers



PaintMaster Pro



PaintMaster Mini



PaintMaster Ultra

PaintMaster Pro

Make Line Marking Easier

Factory-calibrated before delivery, so the machine is ready to start marking after arrival.

1 kWh battery supports extended runtime for frequent line-marking operations.



20 L standard paint tank, expandable to 25 L for continuous marking across multiple fields.

Standard studded tires help maintain traction on turf.



Real-Time Obstacle Detection & Avoidance | Fleet and Multi-Field Management

PaintMaster Mini

Built Light. Marks Right.

The lightweight body makes transport and field-to-field movement easier.

The quick-swap battery design minimizes downtime between tasks.



8 L paint tank balances marking efficiency with portability.





PaintMaster Pro

PaintMaster Mini

Dimensions	1074 x 1023 x 672 mm (42.3 x 40.3 x 26.5 in.)	656 x 655 x 453 mm (25.8 x 25.8 x 17.83 in.)
Weight	73.4 kg (161.8 lb)	21.85 kg (48.2 lb)
Paint Tank Capacity	20 L (5.3 gal), expandable to 25 L (6.6 gal)	8 L (2.1 gal)
Marking Speed	3 km/h (1.9 mph)	2 km/h (1.2 mph)
Line Width Range	6–17 cm (2.4–6.7 in.)	5–12 cm (2.0–4.7 in.)
Nozzle Height	3–11 cm (1.2–4.3 in.)	3–8 cm (1.2–3.1 in.)

PaintMaster Ultra

Precision Anywhere. Perfection Everywhere.

Greater Adaptability in Complex Environments

Maintains reliable line marking across the entire field, even near buildings, grandstands, and other challenging structures.

Millimeter-Level Precision

Designed for elite venues and professional-grade pitches, delivering the precision required for high-level competition.

Engineered for Professional Excellence

Designed to meet professional line-marking standards for major stadiums, sports venues, and training facilities.

Specifications

Dimensions	1074 × 1023 × 672 mm (42.3 × 40.3 × 26.5 in.)
Weight	75 kg (165.3 lb)
Line Width Range	6–17 cm (2.4–6.7 in.)
Line Marking Speed	1–3 km/h (0.6–1.9 mph)
Nozzle Ground Clearance	3–8 cm (1.2–3.1 in.)
Paint Tank Capacity	25 L (6.6 gal)
Battery Capacity	1 kWh
Runtime	8 h
Charging Time	5 h
Positioning	Total Station + GNSS
IP Rating	IPX3





Residential Robotic Mowers



FR4000



FV2000



FL3000

FR4000 & FV2000

FR4000 Robotic Mower

For large estates, courtyards, and municipal green spaces

FV2000 Robotic Mower

For small to medium courtyards

Quick Setup

No boundary wires or complicated installation. Simply unbox, complete the setup, and start mowing quickly.

Drop & Run

Create work zones flexibly without being limited by charging-station placement. For separated lawn areas, place the mower in the target area and start the mowing task.

Real-Time Object Detection & Avoidance

With vision perception and multi-sensor detection, the mower can detect people, pets, obstacles, and small animals such as hedgehogs in real time, then adjust its route for a safer, more lawn-friendly mowing experience.

Tackles Inclines up to 33° (65%)

Conquer steep slopes with an impressive 33° climbing ability.

Smart Path Planning

Automatically executes efficient routes to keep your lawn perfectly maintained.



FL3000

LiDAR-Powered Robotic Mower

For yards with dense trees, walls, tight corners, and weak GPS signals

No Wire. No RTK. 10-Minute Setup

Forget about the hassle of complex setup—simply install the charging station and define the virtual boundaries of your garden via the app.

Reliable in Weak-Signal Areas

Designed for areas with trees, walls, and tight corners. LiDAR technology ensures precise navigation and reliable performance even in the most challenging areas.

Smart Edge Trimming

LiDAR and vision work together to support cleaner edge cutting and reduce the effort required for boundary setup.





FR4000 Robotic Mower

FV2000 Robotic Mower

FL3000 LiDAR Robotic Mower

Mowing Capacity

Recommended Mowing Area	4,000 m ² (1 acre)	2,000 m ² (0.5 acre)	3,000 m ² (0.75 acre)
Max Climbing Ability	33° (65%)	33° (65%)	33° (65%)
Max Mowing Slope	25° (47%)	25° (47%)	25° (47%)

Complete Unit

Technology	RTK + RGB Vision	RTK + RGB Vision	LiDAR + RGB Vision
Weight	13.3 kg (29 lb)	13.2 kg (29 lb)	13.5 kg (30 lb)
Dimensions	645 × 444 × 420 mm (25.4 × 17.5 × 16.5 in.)	634 × 444 × 285 mm (24.9 × 17.5 × 11.2 in.)	633 × 443 × 302 mm (24.9 × 17.4 × 11.8 in.)
Camera	Binocular	Monocular	Monocular
IP Rating	Mower: IPX5; Charging Station: IP65	Mower: IPX5; Charging Station: IP65	Mower: IPX5; Charging Station: IP65

Cutting System

Cutting Height	20–60 mm (0.8–2.4 in.); 10–50 mm (0.4–2.0 in.)	20–60 mm (0.8–2.4 in.)	20–60 mm (0.8–2.4 in.); 10–50 mm (0.4–2.0 in.)
Cutting Width	260 mm (10.2 in.)	260 mm (10.2 in.)	260 mm (10.2 in.)

Battery & Charging

Battery Capacity	190 Wh	95 Wh	190 Wh
Runtime per Charge	3 h	2 h	3 h
Charging Time	2 h	1 h	2 h



Robotic Mower Solutions



**FJD Professional
Golf Course Robotic Solution**



**FJD Professional
Sports Field Robotic Solution**

FJD Professional

Golf Course Robotic Solution

1

Positioning



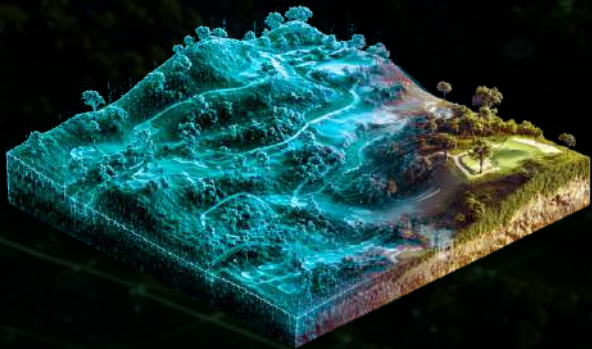
FJD Trion N10 CORS System

- Centimeter-level accuracy
- Stable signal coverage
- All-weather reliability



2

Mapping



FJD Trion S2 Max LiDAR Scanner

- 3D digital course mapping
- Data for course maintenance
- Terrain insights for better player experience



3

Mowing



FJD Mowing Solution

- Reliable in weak-signal areas
- Smart path planning
- Multi-zone management



4

Data Management



FJD GolfMind Platform

- Digital twin visualization
- Task scheduling & monitoring
- Data-driven course maintenance decisions



Product Application Map

Fairways

- RCM01 Robotic Cylinder Mower**
Premium robotic mower delivering tournament-quality cuts for fairways.
- Titan Robotic Mower**
The most cost-effective robotic mower for pristine fairways.
- MS200 Pro Mower Kit**
Retrofit your existing mowers for autonomous operation.

Greens/Tees

- GM22S Electric Walk Greens Mower**
Ideal for greens requiring electric mowing.

Golf Driving Ranges

- RM21 + Ball Picker Kit**
Autonomous ball collection robot for golf driving ranges.



Roughs

- RM21 Multi-Functional Robotic Mower**
RM21 + Dew Brush Kit
Versatile mower for large rough areas, with reliable operation under trees.
- FRX Robotic Mower**
Cost-effective rough mower with 30° slope capability for steep terrain.
- Titan Robotic Mower**
Ideal for rough areas requiring low-noise operation.

	RM21	RCM01	Titan	FRX	GM22S
Positioning & Perception	RTK + LiDAR + Vision	RTK + LiDAR + Vision	RTK + LiDAR + Vision	RTK + Vision	/
Cutting Height	20–127 mm (0.8–5 in.)	7–44 mm (0.28–1.73 in.)	10–100 mm (0.4–4 in.)	10–100 mm (0.4–4 in.)	2-20 3-25 5-25 mm (0.08-0.8 0.12-0.98 0.2-0.98 in.)
Cutting Width	635 mm (25 in.)	685 mm (27 in.)	730 mm (28.7 in.)	520 mm (20.5 in.)	559 mm (22 in.)
Mowing Slope	15°	15°	25°	30°	/
Mowing Time per Charge	5h	10h	8h	5.3h	6h
Max Coverage in 24h	Auto-Docking: 36,000 m² (9 acres)	Battery Swap: 48,000 m² (12 acres)	Battery Swap: 41,600 m² (10.4 acres) Auto-Docking: 36,000 m² (9 acres)	Battery Swap: 32,000 m² (8 acres) Auto-Docking: 20,000 m² (5 acres)	Single Charge: 5,574 m² (1.4 acres)

FJD Professional

Sports Field Robotic Solution

1

Positioning



FJD Trion N10 CORS System

- Centimeter-level accuracy
- Stable signal coverage
- All-weather reliability



2

Mapping



FJD Trion V4e Pro

- Centimeter-level RTK positioning
- Lightweight handheld mapping
- Real-time field preview



3

Mowing & Line Marking



FJD Robotic Mower & Line Marker

- Autonomous operation
- Smart path planning
- Precision mowing & marking



4

Data Management



FJD GreenMaster Platform

- Digital twin visualization
- Task scheduling & monitoring
- Virtual path preview before marking



Product Application Map

Mowing System

FRX Robotic Mower

Designed for routine mowing on professional sports fields, with strong slope handling and cost-effective autonomous operation.

Titan Robotic Mower

Built for large sports fields that require high daily mowing capacity. When paired with the line marker kit, Titan also supports precise and efficient line marking.

RM21 + Line Marker Kit Combo

An integrated robotic solution for mowing and line marking across large, multi-field sports venues.

RCM01 Robotic Cylinder Mower

Designed for premium-quality mowing on sports fields, with customizable striping for a consistently professional look.

Line Marking System

PaintMaster Pro

Designed for professional events and routine field maintenance, with precise, efficient, and repeatable template-based marking.

PaintMaster Mini

Suitable for schools, clubs, and small to medium-sized venues, offering lightweight handling and everyday efficiency.

PaintMaster Ultra

Designed for premium venues that require high-precision line marking where RTK signals are limited or unavailable.

Cutting System	FRX	Titan	RM21	RCM01	Line Marking System	LM01	PaintMaster Pro	PaintMaster Mini	PaintMaster Ultra
Positioning & Perception	RTK + Vision	RTK + LiDAR + Vision	RTK + LiDAR + Vision	RTK + LiDAR + Vision	Max Marking Speed	3 km/h (1.9 mph)	3 km/h (1.9 mph)	2 km/h (1.2 mph)	3 km/h (1.9 mph)
Cutting Height	10-100 mm (0.4-4 in.)	10-100 mm (0.4-4 in.)	20-127 mm (0.8-5 in.)	7-44 mm (0.28-1.73 in.)	Line Width Range	5-17 cm (2-6.7 in.)	6-17 cm (2.4-6.7 in.)	5-12 cm (2-4.7 in.)	6-17 cm (2.4-6.7 in.)
Cutting Width	520 mm (20.5 in.)	730 mm (28.7 in.)	635 mm (25 in.)	685 mm (27 in.)	Nozzle Height	5-17 cm (2-6.7 in.)	3-11 cm (1.2-4.3 in.)	3-8 cm (1.2-3.1 in.)	3-11 cm (1.2-4.3 in.)
Mowing Time per Charge	5.3h	8h	5h	10h	Paint Tank Capacity	25 L (6.6 gal)	20 L (5.28 gal)	8 L (2.11 gal)	25 L (6.6 gal)
Max Coverage in 24h (Battery Swap)	32,000 m² (8 acres)	41,600 m² (10.4 acres)	/	48,000 m² (12 acres)	Operating Time per Charge	20h	5h	1.5h	8h
(Auto-Docking)	20,000 m² (5 acres)	36,000 m² (9 acres)	36,000 m² (9 acres)	/					