



FJDynamics

# FJD PaintMaster Airfield

## Robotic Line Marker



A New Era of Autonomous Airfield Marking



# Higher Efficiency Within Limited Closure Windows

**50%+**

less manpower required

**Up to 3×**

faster marking workflow

**30-50%**

shorter runway closure time

\*Actual results may vary by task, site conditions, and operating setup.

## One Solution for Two Airfield Marking Workflows



### New Markings from CAD Plans

CAD Plan → Route Preview → Robotic Marking



### Existing Line Remarking

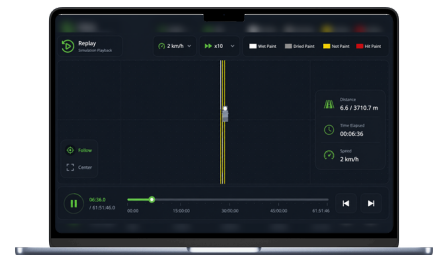
CAD Plan → V4e Pro Verification → Route Preview → Robotic Marking

## Built for Controlled Airfield Marking

### Pre-Job Route Preview

Preview the route and sequence before work starts to reduce on-site adjustments.

*Route Preview · Sequence Check · Fewer Adjustments*



### RTK-Guided Precision Marking

Centimeter-level RTK helps the robot follow approved paths and keep long markings consistent.

*RTK Positioning · Sensor Guidance · Paint Control*

# Confidence in Every Operation



## Data Control for Airport Networks

Support local server deployment. Keep CAD drawings, point data, job records, and operation logs within your airport network.

## Real-Time Operation Visibility

Track job progress, operating time, battery level, paint status, and machine alerts in real time.



## Safety for Controlled Work Zones

360° monitoring and bumper protection help reduce risk around equipment, operators, and work zones.

## Extended Operation Support

Quick-swap batteries help crews continue night and extended marking tasks with fewer charging interruptions.



# From Plan to Report

## Step 1

Import CAD Plan



## Step 2

Path Simulation



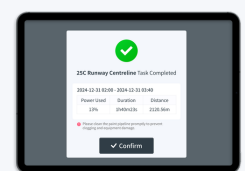
## Step 3

Automated Painting



## Step 4

Export Job Report





# Built for Airfield Marking Applications



## Specifications

| Complete Unit         |                                               |
|-----------------------|-----------------------------------------------|
| Weight                | 210 kg (463 lbs)                              |
| Dimensions            | 1540 x 1215 x 980 mm (60.6 x 47.8 x 38.6 in.) |
| Software Updates      | OTA                                           |
| Connectivity          | 4G & Wifi                                     |
| IP Rating             | IPX4                                          |
| Operating Temperature | 5–35°C                                        |
| Line Marking System   |                                               |
| Line Marking Width    | 10–30 cm (3.9-11.8 in.)                       |
| Line Marking Speed    | 1-4 km/h                                      |
| Paint Capacity        | 18.9 L (5 gal)                                |
| Max Flow Rate         | 2 L/min                                       |
| Max Pressure          | 20 MPa                                        |
| Battery & Charging    |                                               |
| Battery Voltage       | 48V                                           |
| Battery Capacity      | 4 kWh (2 kWh*2)                               |
| Runtime               | 6h                                            |
| Charging Time         | 4h                                            |
| Fast Battery Swapping | Supported                                     |

\*Note: Specifications may vary by configuration and are subject to change without notice.

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