

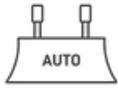


FJDTrion DC100

3D DOZER AUTOMATIC CONTROL SYSTEM

FROM DESIGN TO GRADE - SEE THE PROCESS, CONTROL THE RESULTS

- FJD DC100 is an automatic control system for bulldozers. Using 3D design models and onboard sensors, it adjusts the blade position in real time for high-precision results—reducing rework and material waste.



Valve Controller

Adaptive Control Algorithm
Automatic Blade Control



Machine Adaptation

Electronic & Hydraulic
Systems



Freeze-proof cables

up to -40°C



IMU

Integrated positioning
±3 cm Accuracy



GNSS

1408 channels
Rapid RTK Fix



Military Antenna

Anti-vibration Design



Remote Service

Cloud Diagnostics
OTA Updates

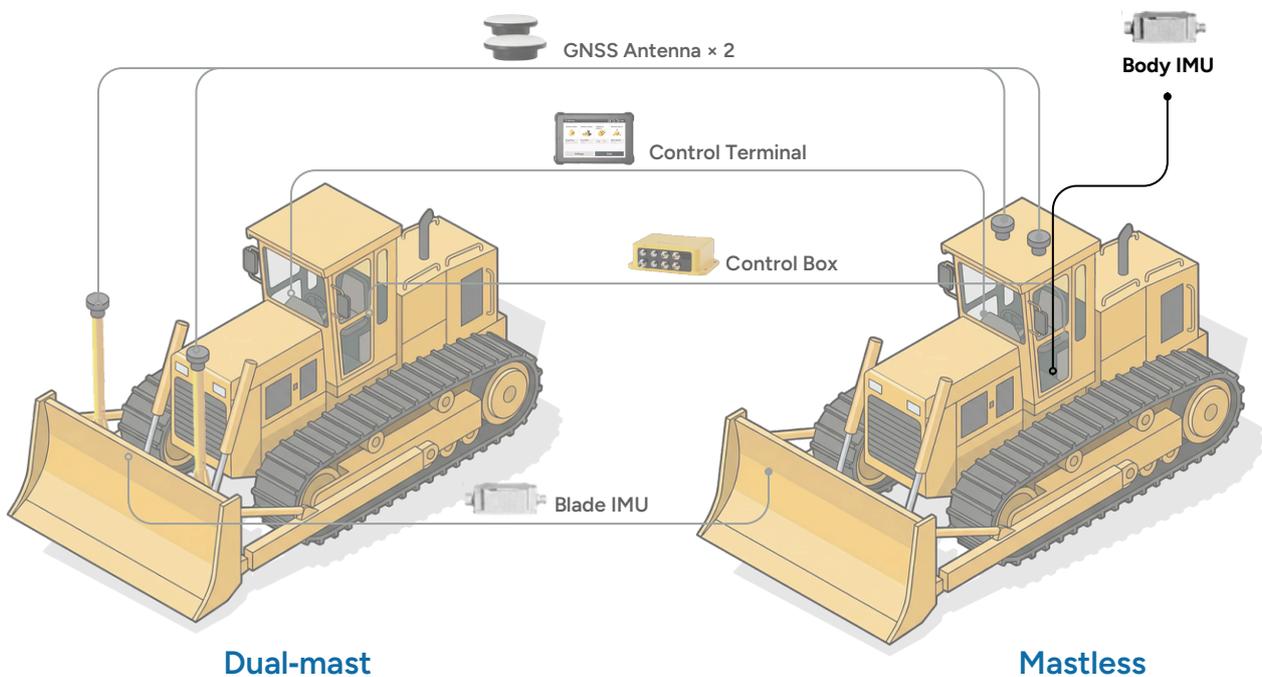


Wireless Communication

4G|built-in radio | Wi-Fi | BT

BEYOND DUAL-MAST, NEW MASTLESS CONTROL FOR DOZERS

The mastless setup delivers a clean cab view and a simplified system layout, built for demanding terrain and tough job sites.



Control Module

Hydraulic Dozer



Valve Solution

Electro-Hydraulic Dozer



Relay Solution

CAN Bus Solution

DC100L

A lite version of DC100, providing 3D visual guidance. Quick to install and calibrate, it is an entry-level solution that can be upgraded to automatic control when needed.



Fits Any Dozer



Fast calibration:
15 mins (Dual-mast),
25 mins (Mastless)



Same Workflow as DC100



One-Click Upgrade Ready
Install valve module to upgrade

DIGITAL CONSTRUCTION IN PRACTICE

Design

Feel free to import CAD files (DXF, LandXML, DWG) or create slopes, depths, and elevations on site. Supports 6000+ EPSG coordinate systems and custom presets to match local project requirements.



Planning

Plan and dispatch projects from the Digital Construction platform. Monitor team progress and machine status remotely — all from the office.

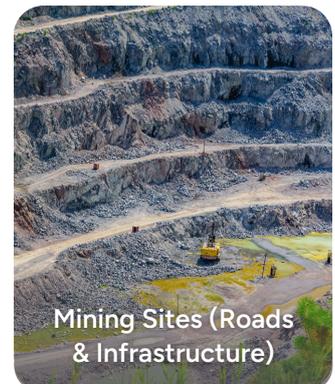
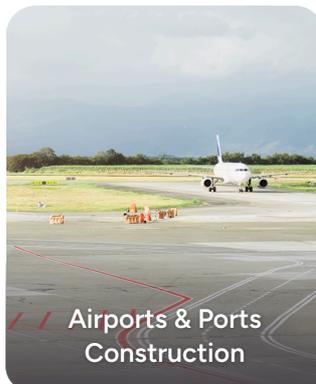
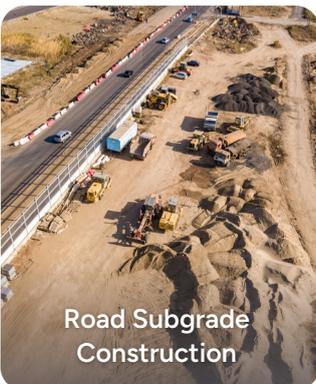


Execution

Provide real-time visual guidance and display construction results on screen. Automatic blade control maintains centimeter-level grading accuracy and deliver results on target.



HELPS YOU GET IT RIGHT, ANYWHERE



SPECIFICATIONS

Terminal

Dimensions	284 × 189 × 22.5 mm
Display	10.1-inch high-brightness display
	Resolution: 1920 × 1200
	Brightness: 750 cd/m ²
Performance	Processor: Octa-core, 2.2 GHz
	Memory: 8 GB RAM
	Storage: 128 GB ROM
Power Supply	DC 7–30 V
Wireless Communication	Wi-Fi: 802.11 b/g/n (2.4 GHz)
	BT: 5.0(BLE)
	Cellular Network: 4G LTE (SIM card slot ×1)
Interfaces	USB Type-C ×1
	USB 2.0 ×1
	3.5 mm headphone jack ×1
	TF card slot ×1
	SIM card slot (4G) ×1
	DC power input ×1RS-232 ×1
	RJ45 ×1
Battery	Built-in lithium battery, 10000 mAh / 3.8 V (non-removable)
Environmental	Operating temperature: -20 °C to +60 °C
Conditions	Storage temperature: -30 °C to +70 °C
Ingress Protection	IP68 waterproof and dustproof

Control Box

Dimensions	200 × 155 × 63 mm
Communication	Wi-Fi/Bluetooth/Ethernet
Power Supply	DC 9–36 V
Status Indicators	Power/GNSS/Radio/Wi-Fi / Bluetooth
Environmental	Operating temperature: -40 °C to +60 °C
Conditions	Storage temperature: -40 °C to +85 °C
Ingress Protection	IP67 waterproof and dustproof

GNSS Antenna

Passive Antenna	Frequency Range: Multi-constellation,
Characteristics	full-band GNSSGain: ≥ 5.5 dBi
	Polarization: RHCP (Right-Hand Circular Polarization)
	Horizontal Coverage: 360°
	Output Impedance: 50 Ω
	VSWR: ≤ 2.0
Low Noise Amplifier	Active Gain:
(LNA) Characteristics	• L1: 38 ± 2 dB
	• L2: 40 ± 2 dB
	Noise Figure: ≤ 2 dB
	VSWR: ≤ 2.0
	Operating Voltage: 3.3 – 5.8 V
	Operating Current: ≤ 45 mA
Environmental &	Operating Temperature: -45 °C to +85 °C
Mechanical	Storage Temperature: -55 °C to +85 °C
Characteristics	Humidity: Up to 95% (non-condensing)

IMU

Resolution	< 0.01°
Operating Voltage	DC 9-36V
Output Frequency	Up to 100 Hz
Operating Temperature	-40 °C to +85 °C
Ingress Protection	IP67 waterproof and dustproof

Hydraulic Valve

Dimensions	253 × 192 × 57 mm
Rated Flow	20 L/min
Rated Pressure	50 bar
Rated Voltage	24 V DC
Ingress Protection	IP67

Radio Antenna

Frequency Range	410–470 MHz or 902–928 MHz
Gain	2 ± 0.5 dBi
Cable Length	4.5 m

Free Quote: sales@fjdtrion.com

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Build on Presion, From Vision to Reality

