

Handling
Warehousing
& palletizing
software



AGV

●●● DISCOVERY FB150

Smart lifting for automated logistics

The FB150 is an autonomous mobile robot designed to automate internal material transport with efficiency and reliability.

With a **payload capacity of up to 1500 kg** and a compact design, it ensures precise and safe movement in industrial environments.

Equipped with a LiFePO4 battery and wireless charging, FB150 supports continuous operation and optimized intralogistics flows.

DISCOVERY FB150

Type	Autonomous Mobile Robot (AMR)
Payload (kg)	1500
Use	Transport for indoor logistic
Color	Black RAL 9005 / Dark Gray RAL 7024 / Light Gray RAL 7001

MECHANICAL CHARACTERISTICS

Length (mm)	2150
Width (mm)	1035
Weight (kg)	1000
Ground clearance (mm)	30

Designation	Unit	Fork lift stroke (h3)	Extended mast height (h4)	Load capacity (t) c = 600 mm
Simplex	mm	1.560	2.245	1.6
	mm	2.710	3.395	1.6
Duplex	mm	3.010	3.695	1.45
	mm	3.510	4.195	1.25
	mm	3.810	4.495	1.1
Triplex GAL	mm	4.110	4.795	1.0
	mm	4.560	5.245	0.85
	mm	5.310	6.000	0.5

NAVIGATION GUIDANCE

Positioning precision (mm)	±20 (with optimal environment fixed references)
Angular precision (°)	±2
Maximum speed (m/s)	1.5
Maximum obstacle height (mm)	20
Minimum corridor width (mm)	2035
Minimum width (rotation in place) (mm)	2800

BATTERY & RECHARGE

Battery type	LiFePO4
Rated Voltage (VDC)	24V
Capacity	260Ah / 460Ah
Recharge current	up 120A wireless charger
Autonomy	8h / 15h continuous movement @full load

ENVIRONMENT

Ambient temperature (°C)	-5 ÷ 45 (Rated performance @ 25°C)
Humidity	10–95% without condensation
Type of environment	Indoor

SAFETY

Laser Scanner	2 safety laser scanners, give 360° visual protection around the robot
Safety area covered	360° up to 9m distance – 64 different programmable safety areas
STO	Safety Torque Off integrated on traction wheels drives
Emergency buttons	Double emergency button
Bumpers	front forks

CONNECTIVITY

Fieldbus	Profinet / CAN open fieldbus
WiFi connection	IEEE 802.11 a/b/g/h/n, 2.4 / 5 GHz all country certified

CONFORMITY

Industrial vehicles standard	EN 3691-4, EN IEC 62046
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