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AGV

DISCOVERY FS150

Compact power for flexible transport

Designed for simple transport operations, the **FS150 front-load AGV** offers a compact and flexible solution for automated material handling.

Its front-loading configuration enables easy interaction with production lines, workstations and storage areas, ensuring efficient and reliable internal logistics.

Thanks to its **compact design and agile maneuverability**, FS150 is ideal for environments where space optimization and operational efficiency are essential.

DISCOVERY FS150

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)	2897
Width (mm)	1200
Weight (kg)	2000
Ground clearance (mm)	30

Designation	Unit	Fork lift stroke (h3)	Extended mast height (h4)	Load capacity (t) c = 600 mm
Simplex	mm	1.590	2.110	1.5
Duplex	mm	2.540	3.160	1.5
	mm	3.040	3.660	1.2
	mm	3.540	4.160	1.0
Triplex GAL	mm	3.840	4.430	0.8
	mm	4.140	4.730	0.7

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)	2200
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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