



GT1*spin*

MOBILE TRANSPORT ROBOT

DATASHEET

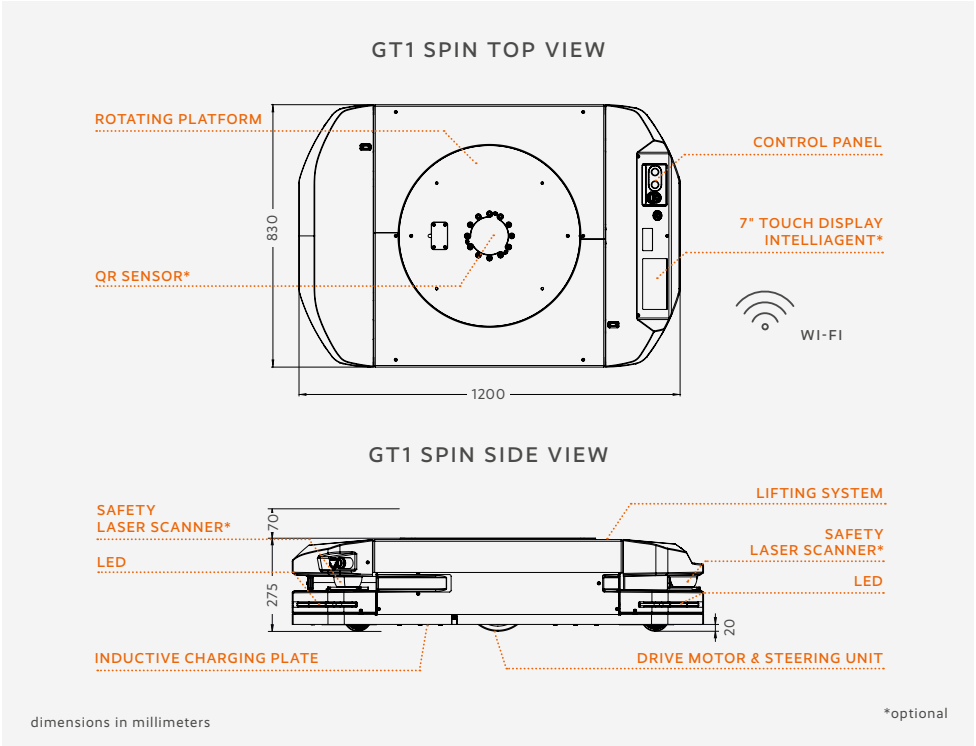
SAFELOG

GENERAL INFORMATION

The SAFELOG GT1 is a Goods-to-Person (GTP) solution designed to meet the requirements of pallet and shelf transport (Shelf-to-Person). Thanks to its maneuverability and compact dimensions of 1200x830 mm (LxW), the robot can operate even in confined spaces. With a height of just 275 mm, it can drive under most standard market shelves and lift them up to 70 mm using a lifting system. The maximum top load capacity is 1,300 kg. Under full load, the robot can reach a top speed of up to 2.2 m/s, while speeds of up to 3 m/s are possible without a payload. For faster alignment and positioning of pallets and shelves, the GT1 spin variant is equipped with a turntable, allowing the transported goods to be independently adjusted without moving the robot itself.

DEVICE INFORMATION

Product name	SAFELOG GT1 spin
Casing material	Aluminium/technopolymers
Weight (kg)	269 ²



Pictures and drawings may show optional accessories or previous device versions. Specific configuration according to offer. We reserve the right to modify product specifications without prior notice.

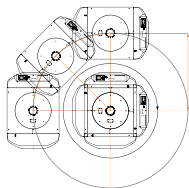
TECHNICAL DATA

PERFORMANCE	Standard	Optional
Topload (kg)	1,300 ¹	—
Lifting height (platform) (mm)	70	—
Speed (m/s)	0.02 – 2.2/3.0 (w/o load) ¹	—
Positioning accuracy (mm)	+/- 5 ^{1,3}	—
Localization	Odometry, grid codes	LiDAR (LLS)
Sensors	—	light barrier, QR sensor, 3D-TOF camera

ELECTRICAL DATA	Standard	Optional
Charging system	Inductive	—
Battery type and quantity	LiFePO4 (2)	LiFePO4 (4)
Capacity (Ah)	21	42
Operating voltage (V)	48	—
Charging time 20–80% (min)	20 ¹	30 ¹
Continuous driving (w/[o] load) (h)	[3.2] 1.9 ^{1,4}	[6.3] 3.7 ^{1,4}

SAFETY DEVICE	
Personnel safety (optional)	Safety laser scanner
Emergency stop	Front/back
LED-Strip	Front/back
Bluespot (optional)	Front/back

OPERATION DATA	
Temperature (°C)	+5 to +35
Conformity (planned)	CE, FCC, IP54
Max. grade (%)	—
Operating time (h/d)	24/7
Floor condition	VDI 2510



Turning radius (m):
1

¹ environment-dependent

² without optional accessories

³ dependent on localization method

⁴ at linear speeds of 1.5 m/s without acceleration,
load of 1,000 kg, 80% driving share

GT1 SPIN



Standard



Standard with extended lifting unit



Control panel



Safety and warning fields

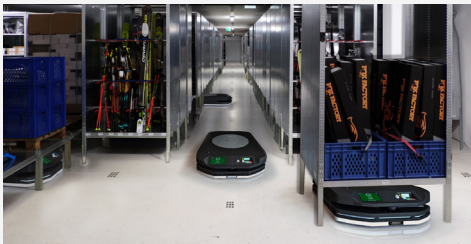
GT1 SPIN PERIPHERALS



Charging station*



Charging plate (inductive charging)*



Rack transportation as a use case



Lift truck for L2 transportation

* The GT1 cannot drive on inclines and ramps.

