



X1spin

MOBILE TRANSPORT ROBOT

DATASHEET

SAFELOG

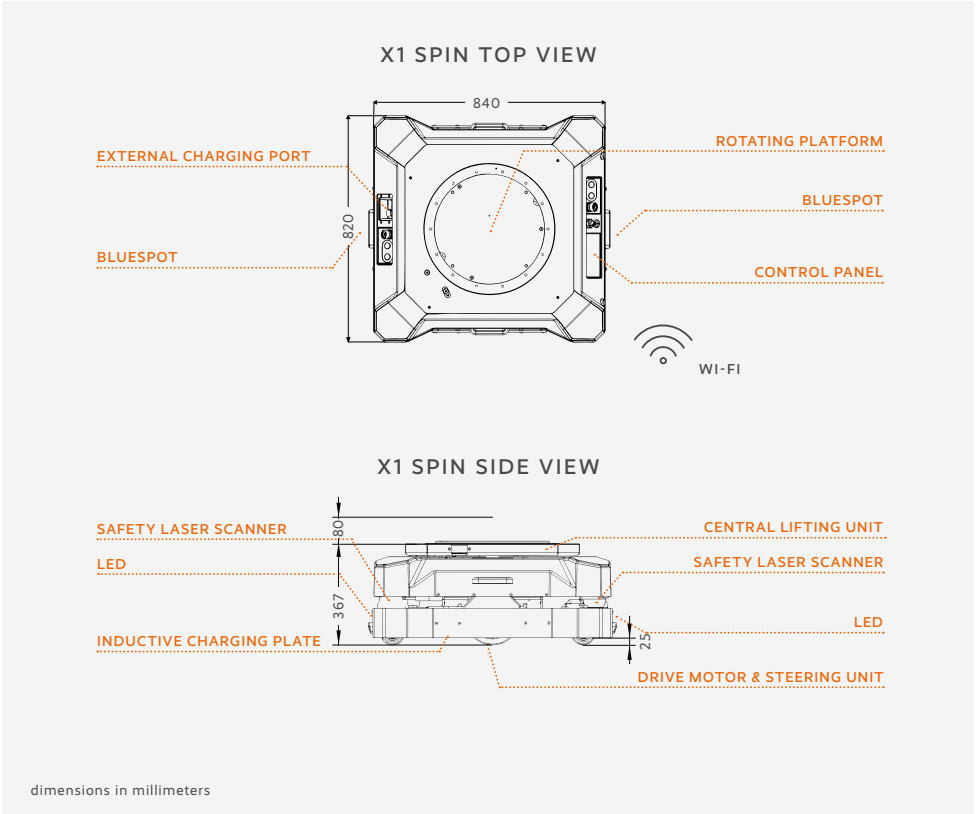
GENERAL INFORMATION

The X1 product family provides exceptional agility and versatility. All variants have a differential drive allowing for turning on the spot and driving speeds from 0.02 to 1.6 m/s. Depending on the version, the mobile robots can be used to transport pallets or racks, as a goods-to-person or assembly platform.

The special feature of the X1 spin is that the central lifting unit can rotate independently of the robot. This allows the transported goods to be realigned even in confined spaces. The maximum load capacity is 1,200 kg.

DEVICE INFORMATION

Product name	SAFELOG X1 spin
Casing material	Steel/technopolymers
Weight (kg)	232 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.

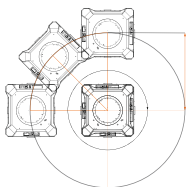
TECHNICAL DATA

PERFORMANCE	Standard	Optional
Topload level (kg)	1,200 ¹	—
Lifting height (lifting unit) (mm)	80	—
Speed (m/s)	0.02 – 1/1.6 (w/o load) ¹	—
Positioning accuracy (mm)	+/- 5 ^{1,3}	—
Localization	Magnetic track, RFID, odometry, inductive sensor	LiDAR (LLS), 2D camera, grid codes
Sensors	—	RFID, light barrier

ELECTRICAL DATA	Standard	Optional
Charging system	Inductive	—
Battery type and quantity	LiFePO4 (1)	LiFePO4 (2)
Capacity (Ah)	21	42
Operating voltage (V)	24	—
Charging time 20–80% (min)	20 ¹	30 ¹
Continuous driving (w/[o] load) (h)	[3.5] 1.7 ^{1,4}	[7] 3.3 ^{1,4}

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

OPERATION DATA	
Temperature (°C)	+5 to +35
Conformity	CE, FCC
Max. grade (%)	5 ¹
Operating time (h/d)	24/7
Floor condition	VDI 2510



Turning radius (m):
1

¹ environment-dependent

² without optional accessories

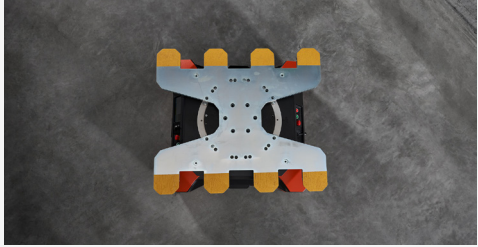
³ dependent on localization method

⁴ at linear speeds of 1.0 m/s without acceleration,
load of 1,000 kg, 80% driving share

X1 SPIN



Standard with extended lifting unit



X1 spin with butterfly structure – top view



X1 spin with rotating platform – top view



Safety and warning fields

X1 SPIN PERIPHERALS



Charging station



Charging plate (inductive charging)



Rack and crate transportation as a use case



Lift truck for transportation

