



*S3*core

MOBILE TRANSPORT ROBOT

DATASHEET

SAFELOG

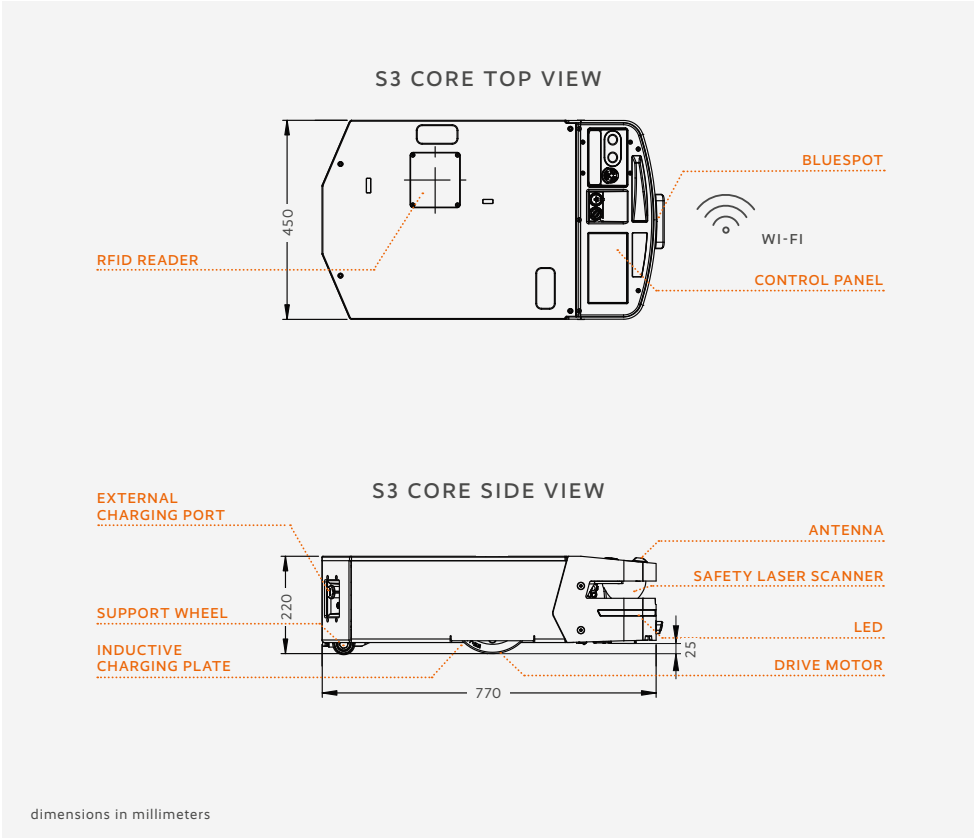
GENERAL INFORMATION

The S3 can rotate on the spot in a space less than 90cm thanks to a differential drive and compact dimensions. The mobile robots are therefore ideal for processes where space is limited. Personnel safety is ensured by safety laser scanners. The robots communicate with each other and with peripheral systems via Wi-Fi.

The SAFELOG S3 core can be equipped with variable transport superstructures. Superstructures with conveyor technology are also possible.

DEVICE INFORMATION

Product name	SAFELOG S3 core
Casing material	Steel
Weight (kg)	150 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.

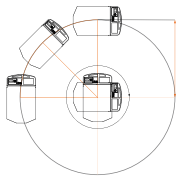
TECHNICAL DATA

PERFORMANCE	Standard	Optional
Topload level (kg)	150 ¹	—
Lifting height (mm)	—	—
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
Sensors	—	RFID, light barrier

ELECTRICAL DATA	Standard	Optional
Charging system	Inductive	—
Battery type and quantity	LiFePO4 (1)	—
Capacity (Ah)	21	—
Operating voltage (V)	24	—
Charging time 20–80% (min)	20 ¹	—
Continuous driving (w/[o] load) (h)	[3] 1.5 ^{1,4}	—

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

OPERATION DATA	
Temperature (°C)	+5 to +35
Conformity	CE, FCC, IP54
Max. grade (%)	5 ¹
Operating time (h/d)	24/7
Floor condition	VDI 2510



Turning radius (m):
0.8

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 150 kg, 80% driving share

S3 CORE



Standard



Standard



Control panel and display



Safety and warning fields

S3 CORE PERIPHERALS



Charging station



Charging plate (inductive charging)



Conveyor system structure as a use case



Lift truck for transportation

