



L2core

MOBILE TRANSPORT ROBOT

DATASHEET

SAFELOG

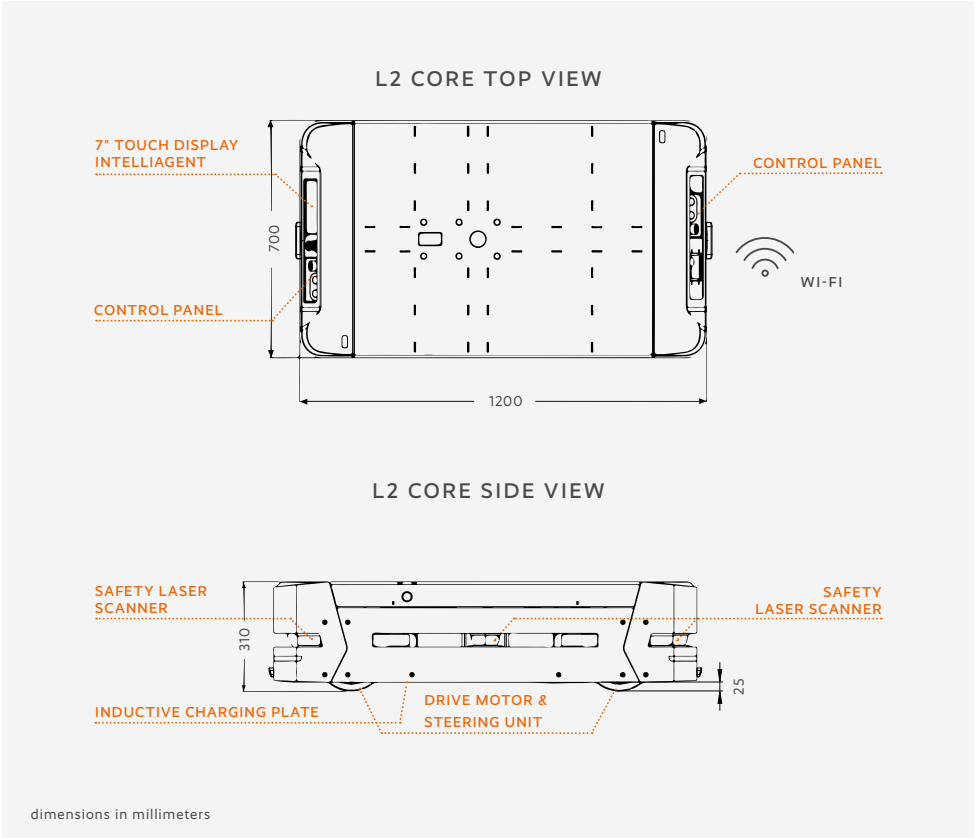
GENERAL INFORMATION

The mobile robots in the SAFELOG L2 product series are primarily used for transporting pallets and pallet cages weighing up to 1,500 kg. The omnidirectional travel mode and the ability to turn on the spot guarantee a high level of agility even in confined spaces, despite the high payload.

The SAFELOG L2 Core without active load handling is particularly suitable as a transport robot for goods-to-person processes or as an assembly platform when outfitted with a custom superstructure.

DEVICE INFORMATION

Product name	SAFELOG L2 core
Casing material	Steel/technopolymers
Weight (kg)	243 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)	1,500 ¹	—
Lifting height (platform) (mm)	—	—
Speed (m/s)	0.02 – 1/1.6 (w/o load) ¹	—
Positioning accuracy (mm)	+/- 5 ^{1,3}	—
Localization	Magnetic track, RFID, inductive sensor	LiDAR (LLS), grid codes (only with LLS)
Sensors	—	3D camera, RFID, light barrier

ELECTRICAL DATA	Standard	Optional
Charging system	Inductive	—
Battery type and quantity	LiFePO4 (2)	LiFePO4 (3/4)
Capacity (Ah)	42	63/84
Operating voltage (V)	24	—
Charging time 20–80% (min)	30 ¹	40/60 ¹
Continous driving (w/[o] load) (h)	[3,0] 1,7 ^{1,4}	[4,4] 2,6/[5,9] 3,4 ^{1,4}

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

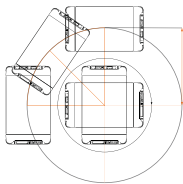
OPERATION DATA	
Temperature (°C)	+5 to +35
Conformity	CE, FCC
Max. grade (%)	5 ¹
Operating time (h/d)	24/7
Floor condition	VDI 2510

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



Turning radius (m):
1

L2 CORE



Standard



Sensors optional: 3D cameras



Control panel and display



Safety and warning fields

L2 CORE PERIPHERALS



Charging station



Charging plate (inductive charging)



Conveyor system structure as a use case



Lift truck for L2 transportation

