

X1 lift 1200

MOBILE TRANSPORT ROBOT

DATASHEET

SAFELOG

GENERAL INFORMATION

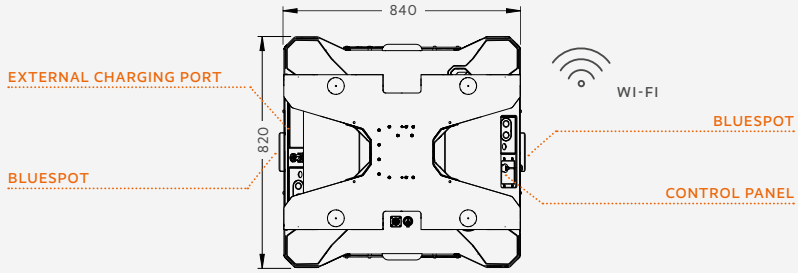
The X1 product family provides exceptional agility and versatility. All variants have a differential drive allowing for turning on the spot and driving speeds from 0.02 to 1.6 m/s. Depending on the version, the mobile robots can be used to transport pallets or racks, as a goods-to-person or assembly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

The AGV X1 lift 1200 picks up the load via a central lifting unit, which can be equipped with various attachments for transporting pallets, shelves or other load carriers. The mobile robot is primarily used as a goods-to-person platform in fulfillment centers and on production lines.

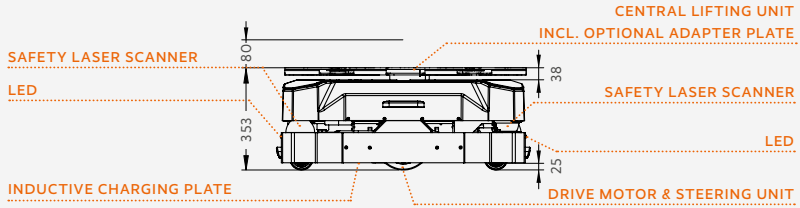
DEVICE INFORMATION

Product name	SAFELOG X1 lift 1200
Casing material	Steel/technopolymers
Weight (kg)	210[2]

X1 LIFT 1200 TOP VIEW



X1 LIFT 1200 SIDE VIEW



dimensions in millimeters

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.

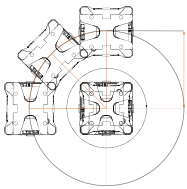
TECHNICAL DATA

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	—	—

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]
Continous 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

X1lift 1200

X1 LIFT 1200



Standard



Optional structure for **pallet transport**



X1 lift 1200 with optional adapter plate



Safety and warning fields

X1 LIFT 1200 PERIPHERALS



Charging station



Charging plate (inductive charging)



Pallet transportation as a use case



Lift truck for transportation

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