



M4tow

MOBILE TRANSPORT ROBOT

DATASHEET

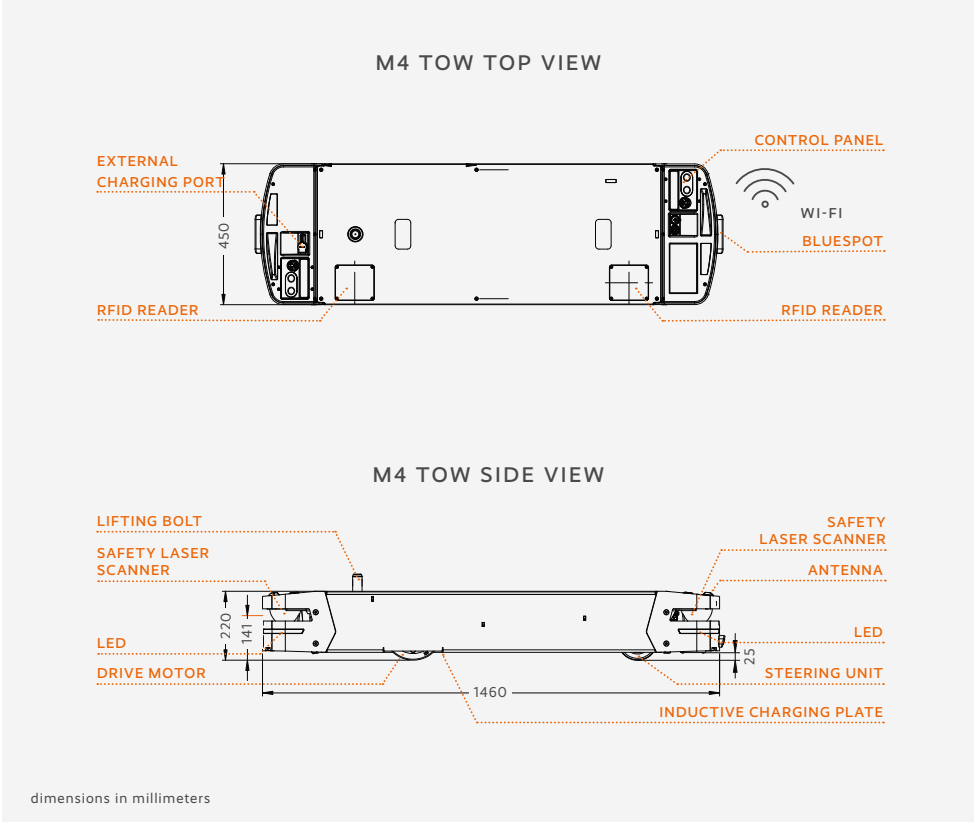
SAFELOG

GENERAL INFORMATION

The SAFELOG M4 series robots can cover a wide range of intralogistics tasks. With a turning radius of 1 m and a length of 1.46 m the M4 provides a stable platform with good maneuverability. A brushless servo motor gives the devices in the M4 product family a high starting torque. The mobile robot SAFELOG M4 tow is particularly suitable for transporting trolleys and trailers. This is done via a system consisting of an electric lifting bolt and snap latch in the optional connection with an RFID reader or light buttons. Automatic pickup and delivery of the trailer load.

DEVICE INFORMATION

Product name	SAFELOG M4 tow
Casing material	Steel/technopolymers
Weight (kg)	235 ²



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

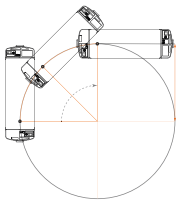
TECHNICAL DATA

PERFORMANCE	Standard	Optional
Topload level (kg)	1,500 ¹	—
Travel distances (lifting pin) (mm)	55	—
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)	LiFePO4 (2/3/4)
Capacity (Ah)	21	42/63/84
Operating voltage (V)	24	—
Charging time 20–80% (min)	20 ¹	30/40/60 ¹
Continuous driving (w/[o] load) (h)	[2.4] 1.2 ^{1,4}	[4.6] 2.4/[7.1] 3.5/[9.5] 4.7 ^{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, IP54
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

M4 TOW



Standard



Standard / top view



Control panel and display



Safety and warning fields

M4 TOW PERIPHERALS



Charging station



Charging plate (inductive charging)



Trolley transportation as a use case



Lift truck for transportation

