

TORY® RFID

autonomous inventory

TECHNICAL DATA



METRA
MetraLabs
mobile robots
robots that inspire

state 04/2025

GENERAL SPECIFICATIONS

weight [kg]	50
dimensions (LxWxH) [mm]	500 x 500 x 1594 to 2050
max. speed [m/s]	0.8
max. operating time per battery charge [h]	12
temperature during operation [°C]	+5 to +40
temperature during transport [°C]	-25 to +55
humidity	20 % - 60 % rH
minimum passage width [cm]	80
max. gradient	5%
ground clearance [mm]	15

BATTERY

type	LFMP
nominal capacity [Ah]	40
operating voltage [V]	26
lifetime	≥ 1500 discharge cycles (80% DOD)
rate of self-discharge [%]	≤ 3
charging time (0% zu 80%) [h]	5

POWER SUPPLY

type	MetraLabs autonomous charging station (ACS)
input power [W]	max. 1200

DRIVE	
type	Brushless DC electric motors (BLDC)
system	ISO 13849-1, performance level d
torque (Nm)	typ.: 19,4 max.: 81
software	CogniDrive® [Metralabs]
RFID TECHNOLOGY	
RFID standard	ISO/IEC 18000-6C
efficiency	> 99% (up to 1000 tags/s)
system	16 antennas
SAFETY	
safety laser scanner (horizontal)	Yes
3D-cameras	Yes
acoustic warning system	optional
bumper	Yes
CE	Yes
ESD capability	Yes