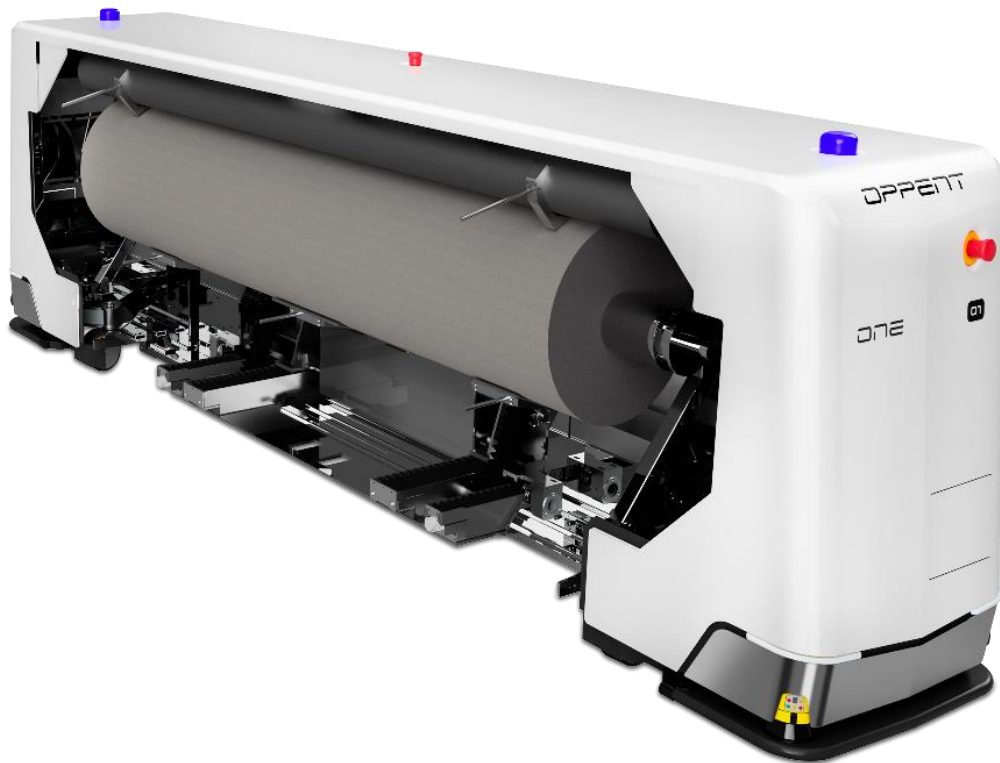


**DATASHEET - One 1**



**DIMENSIONS and WEIGHT**

**Vehicle size**  
L = 3.460 mm  
W = 660 mm  
H = 1.050 mm

**Equipment**  
Customized bucket mechanism

Nr of independent movements 2

Nr of independent actuators 4 + 4

**Vehicle weight w/o batteries**  
1.230 kg

## PAYLOAD and REQUIREMENTS

Nominal payload 100% deliveries	100 kg
Maximum payload 30% deliveries	150 kg
Payload max size	Lmax = 2.400 mm
	Ø min = 100 mm
	Ø max = 440 mm
Center of gravity footprint	L = 2.280 mm
	W = 380 mm
Center of gravity height	H = 500 mm

## PERFORMANCE

Kinematics and Drive	Double trike omnidirectional
Speed	0,1 m/s min
	1,0 m/s max
X, Y accuracy	+/- 10 mm
θ accuracy	+/- 1°
Localization rate	5 Hz
Minimum bending radius	0 m; the vehicle turns on its vertical axis
Slope	3% (1,7°)
Slope min bending radius	15 m
Step	±5 mm
Gap	10 mm
Motor wheel power	2x700 W
Braking torque	2x8 Nm

## MATERIALS

Wheels coating	Polyurethane grip
Chassis material	AISI 304
Shell material	Painted Steel

## BATTERY

Battery	PureLead 24V 240 Ah
Depth of discharge	40%
Autonomy	10 h
Recharging time	8 h
Battery weight	172 kg
Battery cycle life	1.200 cycles

## COMMUNICATION

Communication	WI-FI - WLAN 802.11a/b/g/n - 2,4/5 GHz
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## SAFETY

Safety devices	Nr. 2 Sick S300 laser scanners Sensitive board (front/rear) N.3 E-stop buttons Safety control central unit Sick Flexi
Performance Level	c
Safety field shape	360°

## NAVIGATION

**Navigation** Odometric closed loop via laser scanner (natural navigation)

**Mapping** Auto acquisition by Mobile Robot

## ENVIRONMENT

**Temperature** from +5 to 35 °C

**Working relative humidity** from 30% to 80% (absence of condensation)

**IP degree** 13

## REGULATIONS

### Regulations

- 2006/42/EC Machinery Directive
- 2014/35/EU Low Voltage Directive
- 2014/30/EU Electromagnetic Compatibility Directive
- ISO 3691-4: 2020 Safety of driverless industrial trucks