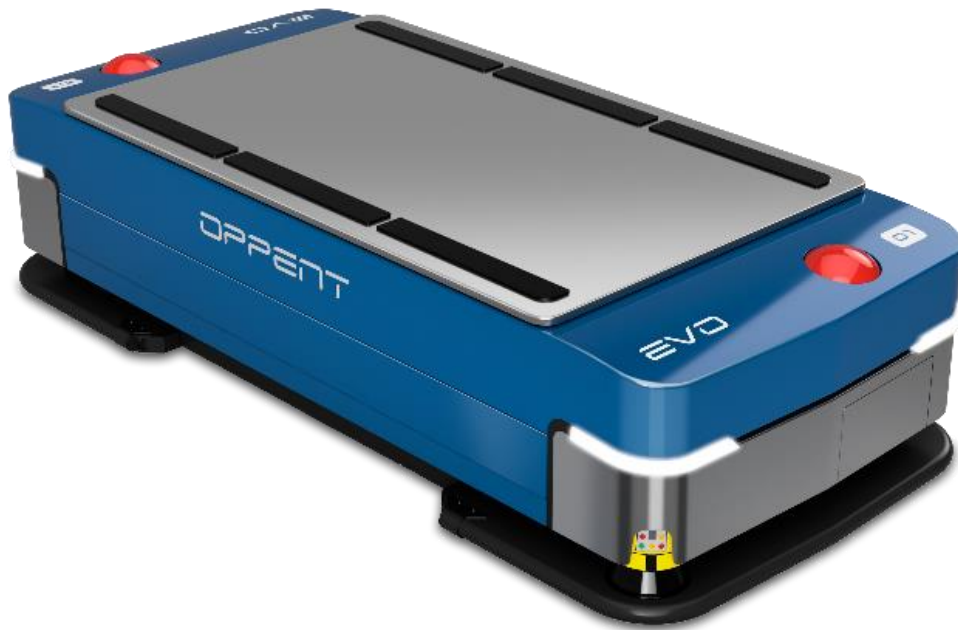


**DATASHEET - Ecart 3**



**DIMENSIONS and WEIGHT**

<b>Vehicle size</b>	L = 1.350 mm	
	W = 630 mm	
	H = 350 mm	
<b>Equipment</b>	Lift platform	
	Plane size	L = 920 mm W = 570 mm
	Stroke	60 mm
	<b>Vehicle weight w/o batteries</b>	195 kg

## PAYLOAD and REQUIREMENTS

Nominal payload 100% deliveries	380 kg
Maximum payload 30% deliveries	450 kg
Payload max size	L = 950 mm
	W = 865 mm
	H = 1.200 mm
Center of gravity footprint	L = 550 mm
	W = 435 mm
Center of gravity height	H = 600 mm
Min load frame clearance	W = 685 mm
	H = 375 mm

## PERFORMANCE

Kinematics and Drive	Diamond, bidirectional
Speed	0,1 m/s min
	1,0 m/s max
X, Y accuracy	+/- 10 mm
$\theta$ 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	1x300 W
Braking torque	1x4 Nm

## MATERIALS

Wheels coating	Polyurethane grip
Chassis material	AISI 304
Shell material	E-Glass

## BATTERY

Battery	LiFePO4 24V 60 Ah	PureLead 24V 60 Ah
Depth of discharge	70%	40%
Autonomy	6 h	4 h
Recharging time	2 h	3 h
Battery weight	21 kg	38 kg
Battery cycle life	2.000 cycles	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.2 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	<ul style="list-style-type: none"><li>• 2006/42/EC Machinery Directive</li></ul>
	<ul style="list-style-type: none"><li>• 2014/35/EU Low Voltage Directive</li></ul>
	<ul style="list-style-type: none"><li>• 2014/30/EU Electromagnetic Compatibility Directive</li></ul>
	<ul style="list-style-type: none"><li>• ISO 3691-4: 2020 Safety of driverless industrial trucks</li></ul>