

DATASHEET - Ecart 8



DIMENSIONS and WEIGHT

Vehicle size
L = 1.660 mm
W = 600 mm
H = 350 mm

Lift platform

Equipment

Plane size

L = 1.020 mm

W = 510 mm

Stroke

100 mm

Vehicle weight
w/o batteries

380 kg

OPPENT S.P.A.

VIA VIMERCATE, 44, 20876 ORNAGO (MB), ITALY
CAPITALE SOCIALE € 2.977.026 INT.VER

P.IVA 04591550159

R.E.A MI 1026684

R.I MI 197591

PAYLOAD and REQUIREMENTS

Nominal payload 100% deliveries	600 kg
Maximum payload 30% deliveries	1.800 kg
Payload max size	L = 1.350 mm
	W = 1.000 mm
	H = 1.500 mm
Center of gravity footprint	L = 800 mm
	W = 440 mm
Center of gravity height	H = 900 mm
Min load frame clearance	W = 900 mm
	H = 415 mm

PERFORMANCE

Kinematics and Drive	Fully bi-directional
Speed	0,1 m/s min
	1,2 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	9% (5,2°)
Slope min bending radius	15 m
Step	±5 mm
Gap	15 mm
Motor wheel power	4x600 W Brushless

Braking torque	4x5 Nm
Motor wheel size	Ø 160x60mm
Caster wheel size	Ø 125x40mm Twin

MATERIALS

Wheels coating	Polyurethane
Chassis material	AISI 304
Shell material	Painted Steel

BATTERY

Battery	LiFePO4 24V 100 Ah
Depth of discharge	70%
Autonomy	6 h
Recharging time	2 h
Battery weight	28 kg
Battery cycle life	2.000 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 (PLd) Sensitive board (front/rear) N.2 E-stop buttons N. 3 - 3D cameras for safeguarding above the laser scanners Scan Grid2 for page protection Safety control central unit Sick Flexi (PLe)
Performance Level	c
Safety field shape	Boxes 360° Trolleys 180°+180° Front/Rear

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"> • 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
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