

Celeste



MOBILE ROBOT DATA SHEET



SPECIFICATIONS

Dimensions & Weight	Vehicle Size	L: 42" ; W: 25" ; H: 61"
	Vehicle weight w/out batteries	595 lbs.
Equipment	2-door cabinet	
	Inside Size	L: 24" ; W: 16.3" ; H: 33.1"
	Lock	Electric
	Drawers Size	24" x 16"
	Number of drawers	0-4
Payload and Requirements	Nominal payload 100% deliveries	661 lbs.
	Maximum payload 20% deliveries	771 lbs.
	Center of Gravity footprint	L: 24" ; W: 16"
	Center of Gravity height	H: 24"
Performance	Kinematics and Drive	Diamond, bidirectional
	Speed	3.3 fps min ; 33 fps max
	X, Y accuracy	+/- 10 mm
	0 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 radios	49.2 ft



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Performance	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	Painted Steel	
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	46 lbs.	64 lbs.
	Battery cycle life	2.000 cycles	1.200 cycles
Communication	Communication	WI-FI - WLAN 802.11a/b/g/n - 2,4/5 GHz	
Safety	Safety devices	Nr. 2 Sick S300 laser scanners Nr. 2 Sick TIM361S 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 +41 to 95 °F	
	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 	