



Celeste

Mobile Robot

Improve safety, efficiency, productivity, and patient care while cutting operational costs





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	197 FPM min/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 radii	49.2 ft
	Step	±5 mm
	Gap	10 mm
	Motor wheel power	1x300 W
	Braking torque	1x4Nm
Materials	Wheels coating	Polyurethane grip
	Chassis material	AISI 304
	Shell Material	Painted steel



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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	<ul style="list-style-type: none"> • 2 QTY - Sick S300 laser scanners • 2 QTY - Sick TIM361S laser scanners • 2 QTY - E-stop buttons • Sensitive board (front/rear) • Safety control central unit - Sick Flexi 	
	Performance Level	PLc	
	Safety field shape	360°	
Navigation	Navigation	Odometry closed loop via laser scanner (natural navigation)	
	Mapping	Auto acquisition by Mobile Robot	
Environment	Temperature	from +41 to 95 °F	
	Humidity Rating	30% to 80% (noncondensing)	
	IP Rating	IP 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 	