



OTTO 100

Versatility and durability in a small, powerful package

OTTO 100 is an industrial strength Autonomous Mobile Robot (AMR) that safely moves boxes, bins, carts and payloads up to 150 kg (330 lb) to increase material handling throughput in factories and warehouses.



Uncompromised performance

With a rugged all-metal body construction, integrated lift and 2 m/s travel speeds, OTTO 100 is built to perform in the world's toughest manufacturing environments year after year.

Countless Applications

Designed for quick setup and deployment, the versatile OTTO 100 autonomously handles a wide range of workflows and applications. The latest laser and 3D camera sensors make it safe enough to work alongside your people.

Comprehensive Service

Comprehensive 24/7 fleet service plans ensure your AMRs are always operating at peak performance. Managed service plans are also available for improved planning and predictability.



OTTO 100 v2.5

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PERFORMANCE			
Max. Payload	150 kg (331 lbs)	Max. Turning Speed	1.25 rad/sec (75°/sec)
Max. Speed	2.0 m/s (4.5 mph)	Max. Docking Speed	0.3 m/sec (0.7 mph)
Docking Accuracy Standard	± 10mm (x,y), ± 1°φ (yaw) Repeatable to 3σ	Min. Aisle Width (One Way)	1099 mm (43 in)
Docking Accuracy Precision Upgrade¹	± 5mm (x,y), ± 1°φ (yaw) Repeatable to 3σ	Min. Aisle Width (Two Way)	1975 mm (78 in)
		Integrated Lift	62 mm (2.44 in) stroke, 150 kg capacity

CHASSIS			
Dimensions	740 x 550 x 308mm (29.1 x 21.7 x 12.1in)	Suspension	Fixed, rigid
Mass	107 kg (236 lbs)	Ground Clearance	16 mm (0.63 in)
Turning Radius	Turn in place	Traversable Gap	13 mm (0.25 in)

ENERGY SYSTEM			
Battery Capacity	35 Ah	Battery Voltage	26.4 V
Runtime (10% to 90%)	6 hr	Battery Life	10,000 full charge cycles
Max. Charge Rate	98 A	Est. Battery Replacements (5yr)	0
Charge Time (10% to 90%)	18 mins	Battery Charging Options	Autonomous Opportunity Charging (Default) Manual Charging

SAFETY SYSTEM			
E-Stop	2 E-Stops (front and back) + user E-Stop circuit interface	Standards Compliance	ISO EN 12100, ISO EN 13849-1, ISO 3691-1 (supercedes EN 1525), EN 60204-1, CE, FCC
Manual Control	Guided autonomous control available via OTTO software interface.		

AUTOMATION INTERFACE		CONTROL SYSTEM	
Power Interface	26.4 VDC, 12A max, unregulated	Sensors	Hokuyo Safety Laser Scanner, 3D Cameras with 90° front coverage, ToF rear sensor with 90° reverse coverage
Signal Interface	1x Ethernet, 1x USB 3.0, 1x serial RS-232	Communication	WiFi 2.4 / 5 GHz (802.11 a/b/g/n/ac)
Safety Interface	2x E-stop extension, 8x Digital IO, 2x dry contact relays, 1x Auxiliary Monitor Contact		

ACCESSORIES (Sold Separately)		ENVIRONMENTAL	
Load-Handling	Staging Cart (130 kg) Magnetic Line Follower	IP Classification	IP20
Charging	Autonomous Supercharger (98 A) Manual Trickle Charger (25 A)	Temperature	0 to 40°C
		Max. Humidity	95%, non-condensing

Footnotes:
¹ Requires OTTO High Accuracy Docking System (HADS) upgrade, sold separately

For more information visit www.ottomotors.com
or call us toll-free at **1-844-733-6886**