

Technical Specifications

OTTO 100

OTTO 100 is a compact and powerful autonomous mobile robot (AMR), designed to move boxes, bins and carts up to 150 kg across countless person-to-person applications. With a durable all-metal body and the latest safety-rated equipment, OTTO 100 is built to operate safely and effectively in the toughest manufacturing environments.



RELIABLY RUGGED

With an all-metal body, rely on OTTO 100 to continue moving your materials in challenging environments, year after year.

INTEGRATED LIFT

Carry a wide range of items in a simple, economical way by seamlessly pairing its integrated lift with an OTTO Cart.

DIVERSE WORKFLOWS

From lineside delivery to work-in-progress transport, OTTO 100 can easily shift between workflows.

PERFORMANCE

Max. Capacity	150 kg (331 lbs) Includes payload, attachments, and cart, if any	Max. Turning Speed	1.25 rad/sec (75°/sec)
Max. Speed	2.0 m/sec (4.5 mph)	Max. Docking Speed	0.3 m/sec (0.7 mph)
Max. Speed	2.0 m/sec (4.5 mpn)	Min. Aisle Width	1099 mm (43 in)
Docking Accuracy Standard	± 10 mm (x,y), ± 1º φ (yaw) Repeatable to 3 σ	(One Way)	1099 111111 (43 111)
Docking Accuracy Precision Upgrade ¹	\pm 5 mm (x,y), \pm 1° φ (yaw) Repeatable to 3 σ	Min. Aisle Width (Two Way)	1975 mm (78 in)
	cking System (HADS) upgrade, sold separately	Integrated Lift	62 mm (2.44 in) stroke, 150 kg capacity

CHASSIS

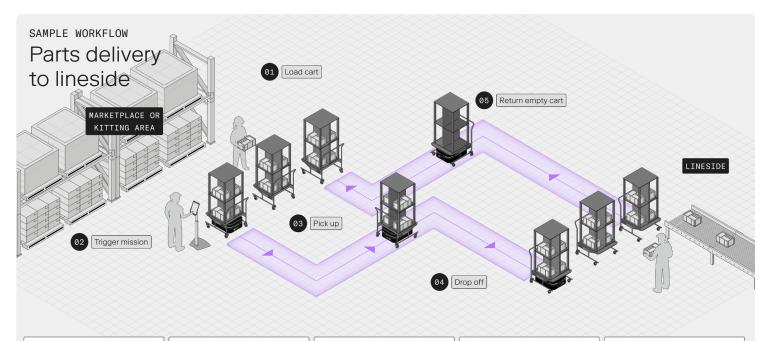
Dimensions	740 x 550 x 308 mm (29.1 x 21.7 x 12.1 in)	Suspension	Fixed, Rigid
Mass	107 kg (236 lbs)	Ground Clearance	6 mm (0.25 in)
Turning Radius	Turn in place	Floor Obstacle	13 mm (0.5 in)

ACCESSORIES (SOLD SEPARATELY)

Charging	Autonomous Supercharger (98 A)
	Manual Trickle Charger (25 A)

OTTO BY ROCKWELL AUTOMATION OTTO 100 SPEC SHEET OTTO-DS001E-EN-MAR2025 01





01 Load cart

An operator loads parts into the cart in the marketplace or kitting

02 Trigger mission

Operator calls an OTTO through a tablet or push button to transport a full cart to the line.

03 Pick up

OTTO drives to the marketplace or kitting area to pick up a full cart.

04 Drop off

OTTO transports the full cart to an empty position at lineside.

05 Return empty cart

OTTO picks up an empty cart from lineside and returns it to the marketplace or kitting area.

ENERGY SYSTEM

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

SAFETY SYSTEM

E-Stop	2 E-Stops (front and back) + user E-Stop circuit interface	Standards Compliance	CE marked, ANSI/ITSDF B56.5, RIA R15.08-1, ISO 12100/13849-1/3691-4, FCC Part 15 Subpart B / ICES-003, ICES-002, EN 1175-1/60204-1
Manual Control	Guided autonomous control available via OTTO		
Mariual Cortifor			

AUTOMATION INTERFACE

software interface.

Inductive cart detect sensor

Power Interface	26.4 VDC, 12 A max, unregulated	Safety Interface	2x E-stop extension, 8x Digital IO,
Signal Interface	1x Ethernet, 1x USB 3.0, 1x serial RS-232		2x dry contact relays, 1x Auxiliary Monitor Contact

CONTROL SYSTEM

Sensors	Hokuyo Safety Laser Scanner, 3D Camera with 90° front coverage,	Communication	WiFi 2.4 / 5 GHz (802.11 a/b/g/n/ac)
	ToF rear sensor with 90° reverse coverage		

ENVIRONMENTAL

IP Classification	IP20	Temperature	20 to 40° C
		Humidity	0-95% non-condensing

For more information visit ottomotors.com/100

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