

Technical Specifications

OTTO 1200

OTTO 1200 is a compact, heavy-duty autonomous mobile robot (AMR) that is designed to move payloads up to 1,200 kg in the tightest environments. Deliver unmatched throughput with its industry-leading average speed, without compromising on safety.



HIGH THROUGHPUT

Move heavy payloads at industry-leading average speeds, even in the most confined manufacturing environments.

OPTIMIZED SPACE

Maximize your floor space by reducing aisle width requirements and sharing chargers between OTTO AMRs.

SIMPLE MAINTENANCE

If needed, rapid-access drawers enable quick, single-person maintenance to increase uptime.

PERFORMANCE

Max. Capacity	1,200 kg (2,640 lb) Includes Payload and Attachment, if any	Docking Precision Standard ¹	± 10 mm (x,y) ± 1° (yaw)
Max. Speed	1.4 m/sec (3.1 mph)	Docking Precision Upgrade ^{1,2}	± 5 mm (x,y) ± 1° (yaw)
Max. Turning Speed	0.8 rad/sec (45°/sec)		
Max. Docking Speed	0.3 m/sec (0.7 mph)		

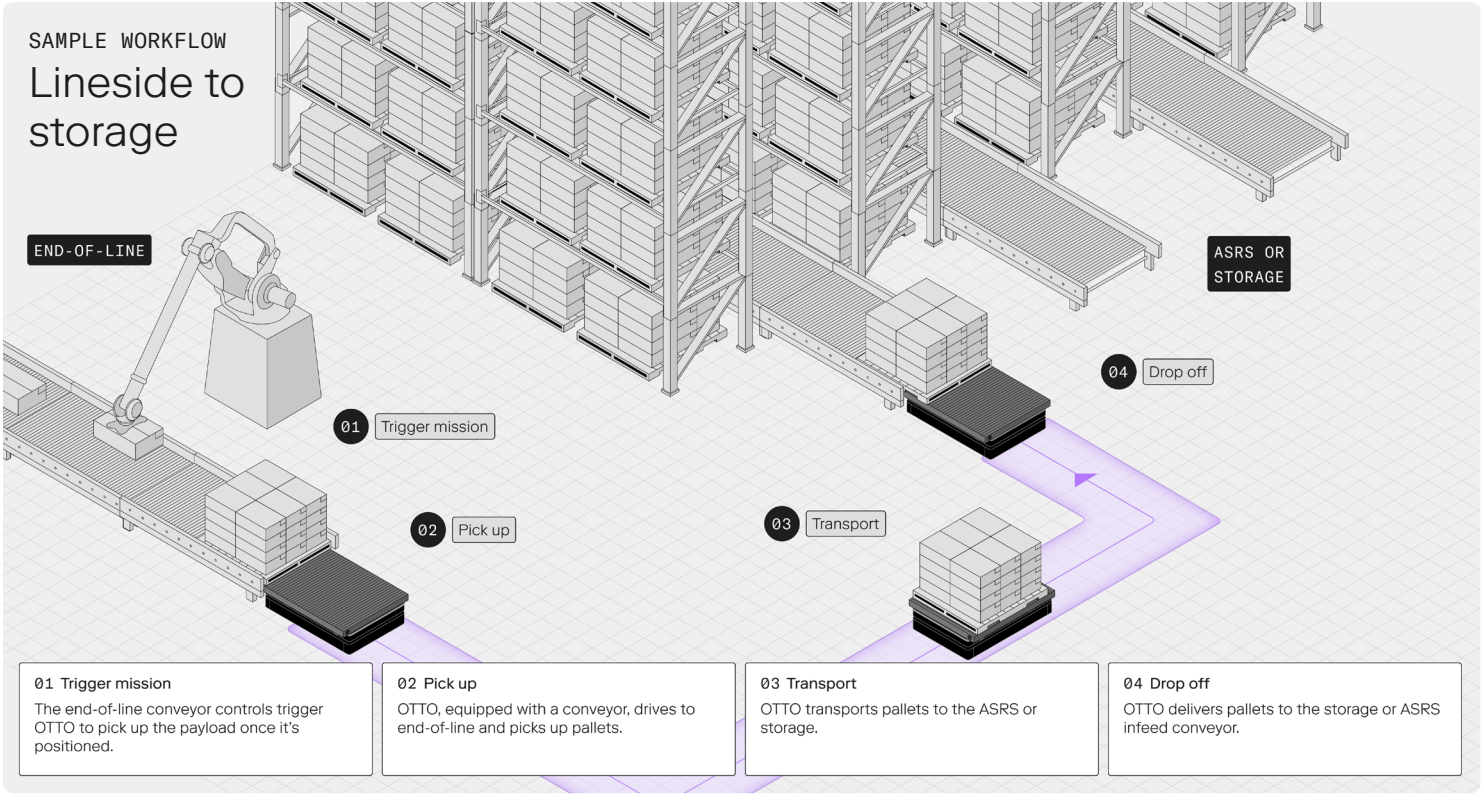
¹See Operation and Maintenance Manual (OMM) for further details.
²Requires OTTO High Accuracy Docking System (HADS) upgrade, sold separately.

CHASSIS

Dimensions	1,350 x 910 x 320 mm (53.1 x 35.8 x 12.6 in)	Suspension	Passive, Rocker
Mass	370 kg (815 lb)	Ground Clearance	30 mm (1 3/16 in)
Turning Radius	Turn in place	Floor Obstacle	4 mm (5/32 in)

ENERGY SYSTEM

Battery Capacity	21 Ah	Battery Voltage	48 V
Max. Charge Rate	42 A	Battery Life	6,000 full charge cycles
Charge Time (10% to 90%)	30 min	Battery Charging Options	Autonomous Opportunity Charging (Default) Manual Charging



SAFETY SYSTEM

Adaptive Fieldsets	Intelligent PL-d rated switching fieldsets (patent-pending)	Manual Control	Pendant-based manual control. Guided autonomous control available via OTTO software interface.
Standards Compliance	ISO 12100/13849-1, FCC Part 15 Subpart B / ICES-003, ICES-002, EN 1175-1/60204-1		

ATTACHMENT INTERFACE

Power Interface	24 VDC, 1A, regulated, unswitched 48 VDC nominal, 3x16A, unregulated	Signal Interface	Ethernet, USB CAN Bus Safety I/O
Safety Interface	Dual-channel E-Stop breakout, 2 safety-rated GPIO		

CONTROL SYSTEM

Sensors	2x Forward facing 3D Perception Cameras 2x LiDAR 6-axis IMU	Communication	WiFi 2.4 / 5 GHz (802.11 a/b/g/n/ac) 2x Long-range Omnidirectional Antennae
Computer	Fanless Embedded Computer		

ACCESSORIES (SOLD SEPARATELY)

Charging	Autonomous Supercharger (42 A) Manual Trickle Charger
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ENVIRONMENTAL

IP Classification	IP20	Humidity	10-95% non-condensing
Temperature	5 to 40° C		

For more information visit ottomotors.com/1200
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