

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	1200 kg (2640 lbs) Includes Payload and Attachment, if any
Max. Speed	1.5 m/sec (3.4 mph)
Docking Accuracy Standard	± 10 mm (x,y), ± 1°φ (yaw) Repeatable to 3σ

Max. Turning Speed	0.8 rad/sec (45°/sec)
Max. Docking Speed	0.3 m/sec (0.7 mph)

CHASSIS

Dimensions	1350x910x320 mm (53.1 x 35.8 x 12.6 in)
Mass	370 kg (815 lbs)
Turning Radius	Turn in place

Suspension	Passive, Rocker
Ground Clearance	30 mm (1 3/16 in)
Floor Obstacle	4 mm (5/32 in)

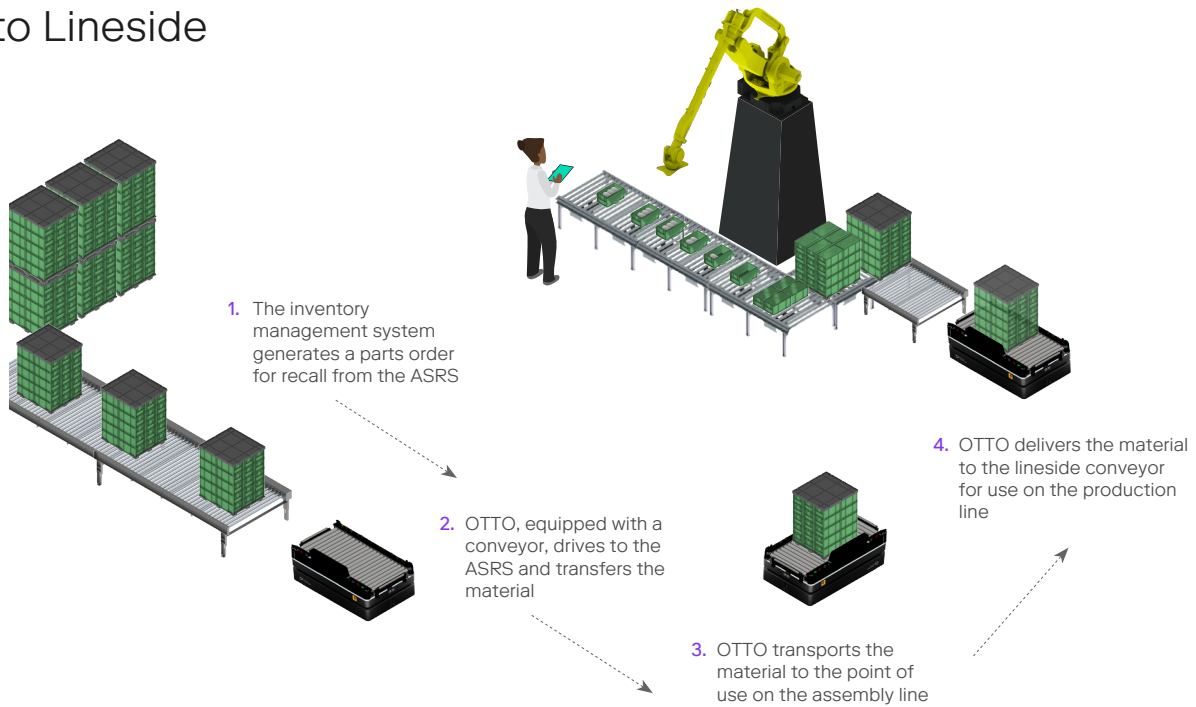
ENERGY SYSTEM

Battery Capacity	21 Ah
Max. Charge Rate	42 A
Charge Time (10% to 90%)	30 min

Battery Voltage	48 V
Battery Life	6,000 full charge cycles
Battery Charging Options	Autonomous Opportunity Charging (Default) Manual Charging

SAMPLE WORKFLOW

ASRS to Lineside



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	Designed in accordance with present standards, CE marked		

ATTACHMENT INTERFACE

Power Interface	24 VDC, 1A, regulated, unswitched 48 VDC nominal, 3x16A, unregulated	Signal Interface	Ethernet, USB CAN Bus, GPIO 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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