

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. Turning Speed	0.8 rad/sec (45°/sec)
Max. Speed	1.5 m/sec (3.4 mph)	Max. Docking Speed	0.3 m/sec (0.7 mph)
Docking Accuracy Standard	± 10 mm (x,y), ± 1°φ (yaw) Repeatable to 3σ		

**CHASSIS**

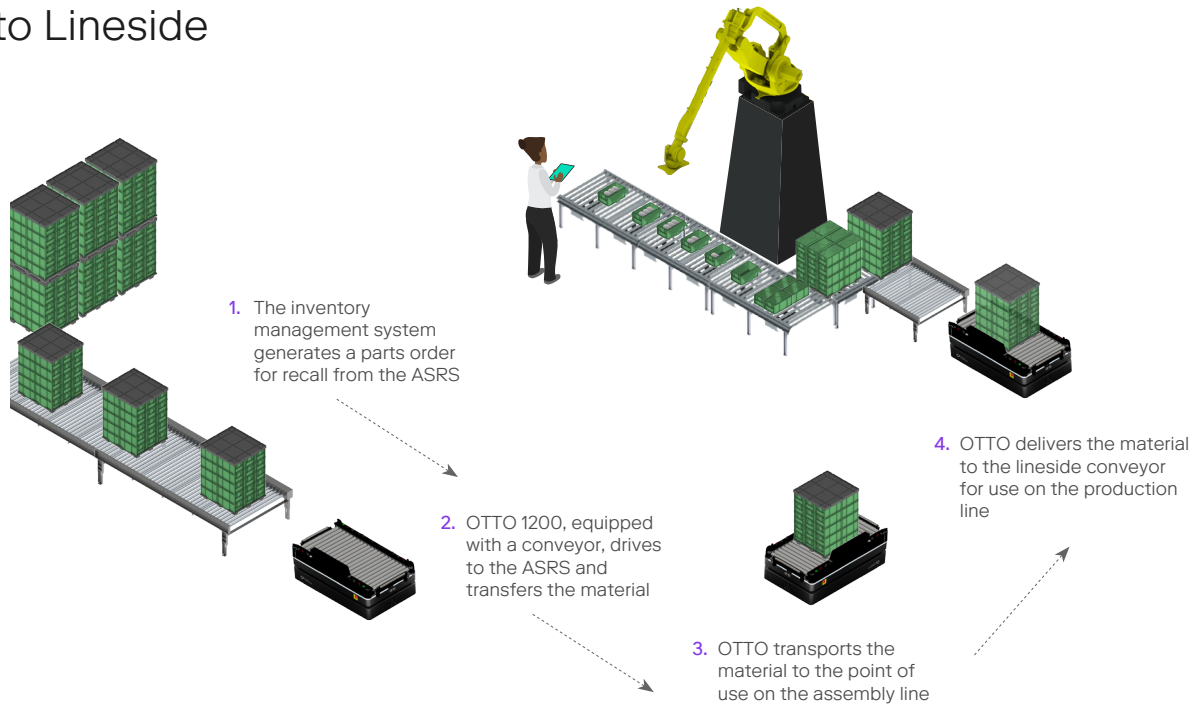
Dimensions	1350x910x320 mm (53.1 x 35.8 x 12.6 in)	Suspension	Passive, Rocker
Mass	370 kg (815 lbs)	Ground Clearance	30 mm (1 3/16 in)
Turning Radius	Turn in place	Floor Obstacle	4 mm (5/32 in)

**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

## 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. Passed in accordance with CE		

## 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](http://ottomotors.com/1200)  
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