

Technical Specifications

OTTO 600

OTTO 600 is a tough and nimble autonomous mobile robot (AMR), designed to move payloads up to 600 kg. With its narrow footprint, OTTO 600 optimizes your floor space in confined manufacturing environments.



HIGH THROUGHPUT

With the narrowest footprint in its class and industry-leading average speed, move more material in tight spaces.

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	600 kg (1320 lbs) Includes payload and attachment, if any
Max Speed	1.4 m/sec (3.1 mph)
Docking Accuracy Standard	± 10 mm (x,y), $\pm 1^\circ \varphi$ (yaw) Repeatable to 3σ

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

CHASSIS

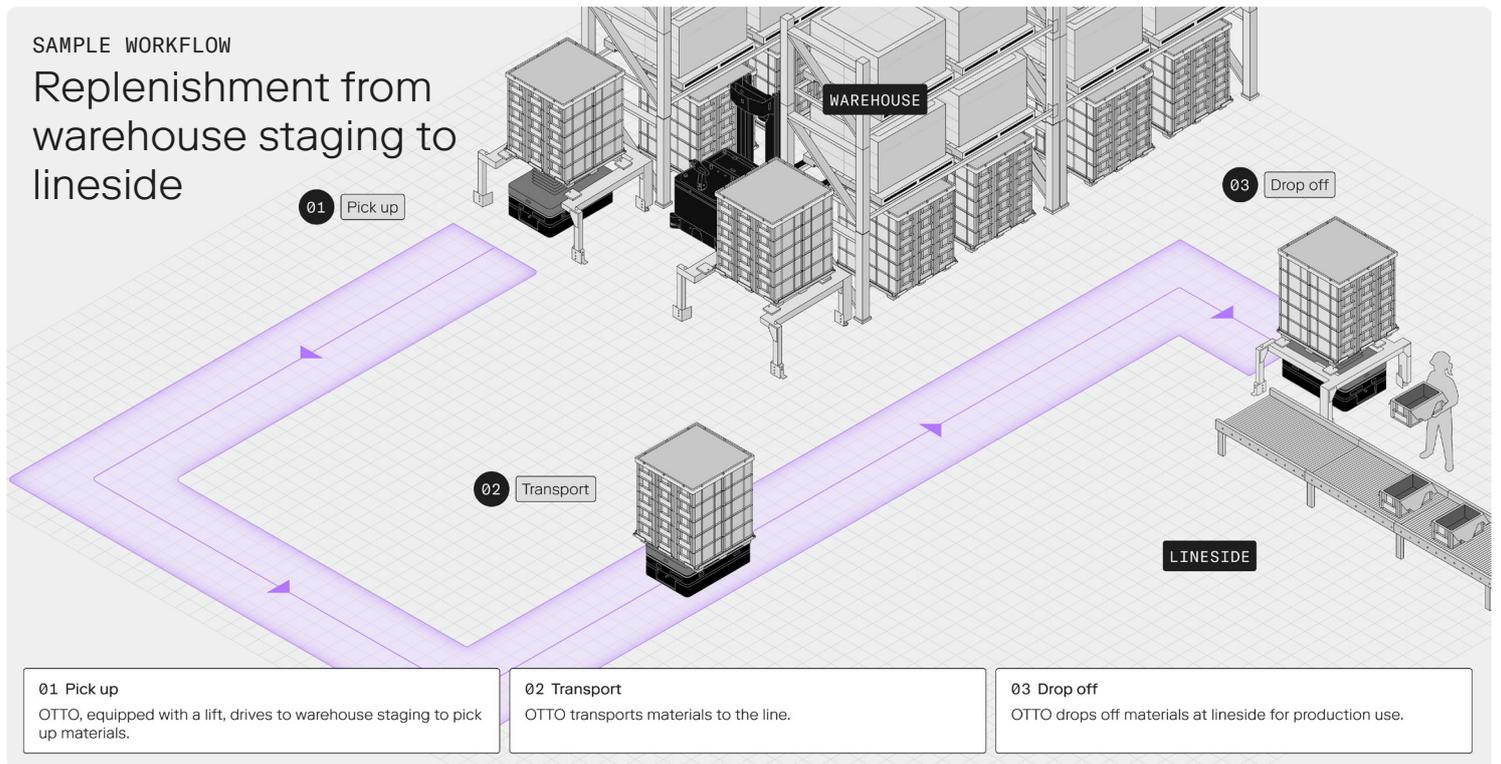
Dimensions	1,050 x 700 x 320 mm (41.3 x 27.6 x 12.6 in)
Mass	250 kg (551 lbs)
Turning Radius	Turn in place

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



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	CE marked, ANSI / RIA R15.08-1, ISO 12100/13849-1, FCC Part 15 Subpart B / ICES-003, ICES-002, EN 1175-1/60204-1		

ATTACEMENT INTERFACE

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

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 (100 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/600
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