

## 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	$\pm 10$ mm (x,y), $\pm 1^\circ \varphi$ (yaw) Repeatable to $3\sigma$

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

## CHASSIS

Dimensions	1050x700x320 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)

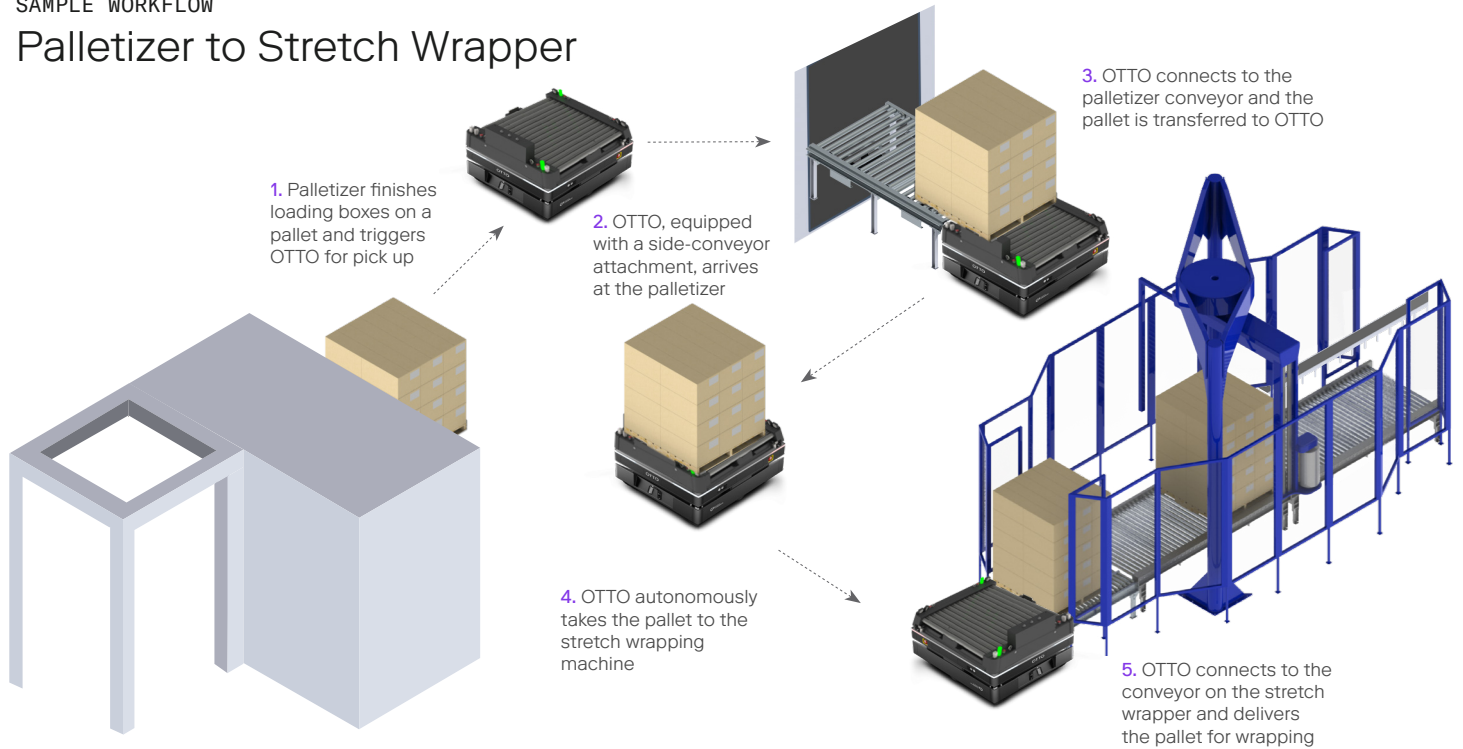
## ENERGY SYSTEM

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

## SAMPLE WORKFLOW

### Palletizer to Stretch Wrapper



## 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		

## 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		

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