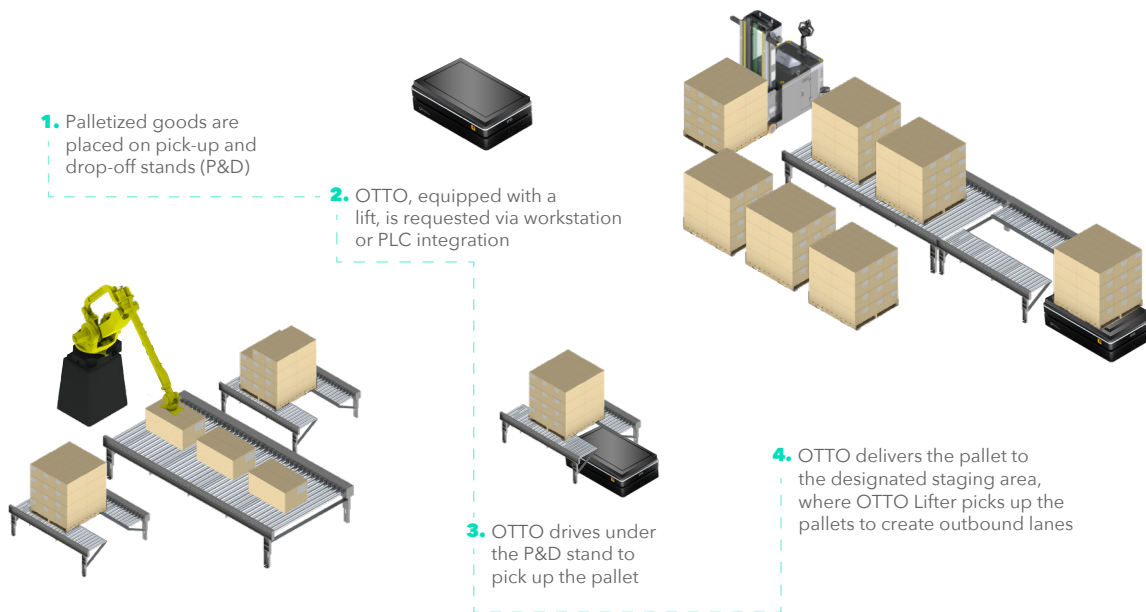


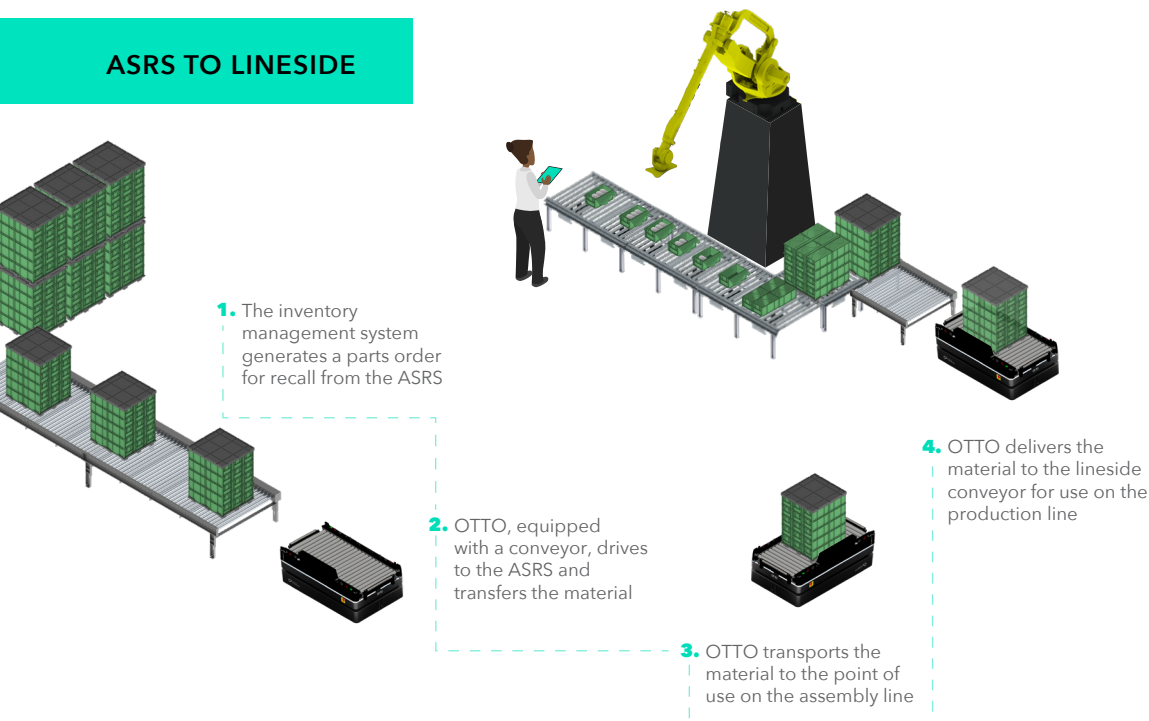
Automate Workflows in Your Facility

Built to deliver the highest throughput in its heavy class, OTTO 1200 is a compact AMR that moves more in tight spaces. Equipped with patented adaptive fieldset technology, OTTO 1200 quickly maneuvers around people and turns, delivering best-in-class average speed without compromising on safety.

PALLETIZED FINISHED GOODS TO OUTBOUND



ASRS TO LINESIDE



REDUCE COSTS

OTTO reduces time wasted and variability with manual material handling by operating on a lean approach.



ADDRESS LABOR SHORTAGE

OTTO AMRs enable businesses to address labor shortages and eliminate FTE spend on low value and repetitive work.



ACHIEVE ENTERPRISE SCALE

Unlike other AMR providers, OTTO Motors' customers are able to operate at scale with 1 to 100 robots to optimize productivity.



OPTIMIZE PRODUCTION

OTTO enables flexibility in material handling and faster product cycles that can ramp up and down based on demand.



IMPROVE SAFETY

OTTO Motors AMRs are uncompromising when it comes to safety.



OTTO 1200

OTTO 1200 moves heavy payloads up to 1,200 kg (2,640 lb) in the tightest and most dynamic environments. Designed with a service-first approach, OTTO 1200 features rapid access drawers for simplified maintenance to achieve maximum uptime.

PERFORMANCE

Max Capacity	1200 kg (2640 lb) 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	±10mm (x,y,) ± 1° φ (yaw) Repeatable to 3 σ		

CHASSIS

Dimensions	1350x910x320 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 (⁶ / ₃₂ in)

ENERGY SYSTEM

Battery Capacity	21Ah	Battery Voltage	48V
Max. Charge Rate	42A	Battery Life	6000 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)	Standards Compliance	Designed in accordance with present standards. Passed in accordance with CE.
		Manual Control	Pendant-based manual control. Guided autonomous control available via OTTO software interface.

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

ACCESSORIES (Sold Separately)

Charging	Autonomous Supercharger (42A) Manual Trickle Charger
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CONTROL SYSTEM

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

ENVIRONMENTAL

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

For more information visit www.ottomotors.com
or call us toll-free at **1-844-733-6886**