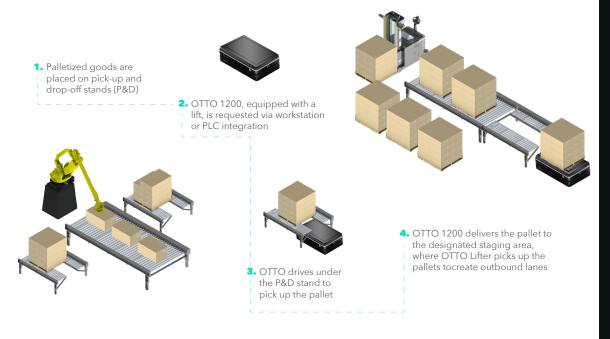


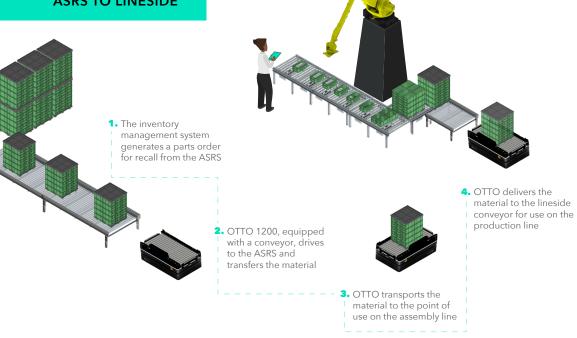
# **Automate Workflows in Your Facility**

Built to deliver the highest throughput in its heavy class, OTTO 1200 is a compact AMR that moves more in tight spaces. Equipped with proprietary steerable field set 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.

### **Technical Specifications**





### **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	<b>0.8 rad/sec</b> (45°/sec)
May Speed	1.5 m/sec (3.4 mph)	Max. Docking Speed	0.3 m/sec (0.7 mph)
Max. Speed			
Docking Accuracy Standard	$\pm 10$ mm (x,y,) $\pm 1^{\circ} \varphi$ (yaw) Repeatable to $3 \sigma$		
CHASSIS			
Dimensions	1350x910x320 mm (53.1 x 35.8 x 12.6 in)	Suspension	Passive, Rocker
Mass	<b>370 kg</b> (815 lb)	Ground Clearance	30 mm (1 <sup>3</sup> / <sub>16</sub> in)
Turning Radius	Turn in place	Floor Obstacle	4 mm ( <sup>5</sup> / <sub>32</sub> 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.
ATTACHMENT INTERFACE		Manual Control	Pendant-based manual control. Guided autonomous control available via OTTO software interface.
Power Interface	24 VDC, 1A, regulated, unswitched 48 VDC nominal, 3x16A, unregulated	CONTROL SYSTEM	
Signal Interface	Ethernet, USB CAN Bus, GPIO Safety I/O	Sensors	2x Forward facing 3D Perception Cameras 2x LiDAR 6-axis IMU
Safety Interface	Dual-channel E-Stop breakout, 2 safety-rated GPIO	Computer	Fanless Embedded Computer
		Communication	802.11 a/b/g/n/ac, 2.4 Ghz & 5 Ghz 2x Long-range Omnidirectional Antennae
ACCESSORIES (Sold Separate	ely)		
Charging	Autonomous Supercharger (42A) Manual Trickle Charger	ENVIRONMENTAL	
		IP Classification	Designed to IP54
		Temperature	5 to 40° C
	sit www.ottomotors.com	Humidity	10-95% non-condensing

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

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