



OTTO 1500 v2

The World's Most Productive AMR™

The new OTTO1500 is a workhorse AMR that moves heavy payloads through demanding environments faster than any AMR on the market, with zero compromise to safety.



Unmatched Productivity

OTTO 1500 delivers a class-leading 1900kg of material at top speeds of 2m/s with an agility unlike any other AMR. Every detail of OTTO 1500 has been crafted to maximize productivity.

Proven Reliability

The new OTTO 1500 builds upon over 1,000,000 hours of driving experience and more than 5 years of refinement on its powertrain and chassis. OTTO 1500 is the AMR of choice for mission-critical work.

Comprehensive Service

Comprehensive 24/7 fleet service plans ensure your AMRs are always operating at peak performance. Managed service plans are also available for improved planning and predictability.



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PERFORMANCE			
Max. Payload	1900 kg (4190 lbs)	Max. Turning Speed	1.5 rad/sec (90°/sec)
Max. Speed	2.0 m/s (4.5 mph)	Max. Docking Speed	0.3 m/sec (0.7 mph)
Docking Accuracy Standard	± 10mm (x,y), ± 1°φ (yaw) Repeatable to 3σ	Min. Aisle Width (One Way)	1915 mm (78 in)
Docking Accuracy Precision Upgrade [1]	± 5mm (x,y), ± 1°φ (yaw) Repeatable to 3σ	Min. Aisle Width (Two Way)	3570 mm (146 in)
CHASSIS			
Dimensions	1837 x 1283 x 351 mm (72.3 x 50.5 x 13.85 in)	Suspension	Passive, Rocker
Mass	627kg (1382 lbs)	Ground Clearance	37.5 mm (1.5 in)
Turning Radius	0 mm (0 in)	Traversable Gap	31 mm (1.25 in)
ENERGY SYSTEM			
Battery Capacity	70 Ah	Battery Voltage	52.8 V
Runtime (10% to 90%)	10 hr	Battery Life	10,000 full charge cycles
Max. Charge Rate	98 A	Est. Battery Replacements (5yr)	0
Charge Time (10% to 90%)	34 min	Battery Charging Options	Autonomous Opportunity Charging (Default) Manual Charging
SAFETY SYSTEM			
Intelligent Braking	Redundant monitoring with safety-system interlock	Standards Compliance	ANSI B56.5, ISO EN 12100, ISO EN 13849-1, ISO 3691-1 (supercedes EN 1525), EN 60204-1, CE, FCC
Adaptive Fieldsets	Intelligent PL-d rated switching fieldsets (patent-pending)	Manual Control	Pendant-based manual control. Guided autonomous control available via OTTO software interface.
E-Stop	4 E-Stops (1 per side) + user E-Stop circuit interface		
AUTOMATION INTERFACE		CONTROL SYSTEM	
Power Interface	24 VDC, 10A, regulated, unswitched	Sensors	4x Intel RealSense Cameras 2x SICK Microscan3 (360° FOV) Embedded 6-axis IMU
Signal Interface	1x Ethernet, 1x USB 3.1, 1x HDMI 1 CAN Bus, 5 GPIO (2 safety rated) 1 interface control line	Computer	Solid-state Military Spec Computer with Intel i7-6700TE Quad Core, 16BG RAM, nVidia GTX-1050
Safety Interface	Dual-channel E-Stop breakout, 2 safety-rated GPIO, 1 interface fault line	Communication	802.11 a/b/g/n/ac/ax, 2.4 Ghz & 5 Ghz 2x Long-range Omnidirectional Antennae
ACCESSORIES (Sold Separately)		ENVIRONMENTAL	
Load-Handling	1500 kg (3300 lbs) Hydraulic Lift 1500 kg (3300 lbs) In-line Conveyor 1900 kg (4190 lbs) Load plate	IP Classification	IP20
Charging	Autonomous Supercharger (98 A) Manual Trickle Charger (25 A)	Temperature	0 to 40°C
		Max. Humidity	95%, non-condensing

Footnotes:
[1] Requires OTTO High Accuracy Docking System (HADS) upgrade, sold separately

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