

OTTO LIFTER

The Smartest Autonomous Forklift

Built for dynamic environments, OTTO Lifter reduces material handling costs of pallet transport workflows, all while increasing workplace safety. Backed by 3 million hours in production, 400k deliveries completed monthly, and zero safety incidents, OTTO Motors' autonomous driving capabilities are trusted in mission-critical operations.

**LOWER
OPERATING COSTS**

Increase efficiency with predictable performance and consistent throughput. For as low as \$9 per hour, OTTO Lifter offers one of the fastest paybacks in the industry.

**INTELLIGENTLY
MOVE MATERIAL**

OTTO Lifter detects obstacles and reroutes to reliably deliver goods. Its intelligent pallet detection system picks skewed pallets, even those with notches covered by stretch-wrap.

**IMPROVE
WORKPLACE SAFETY**

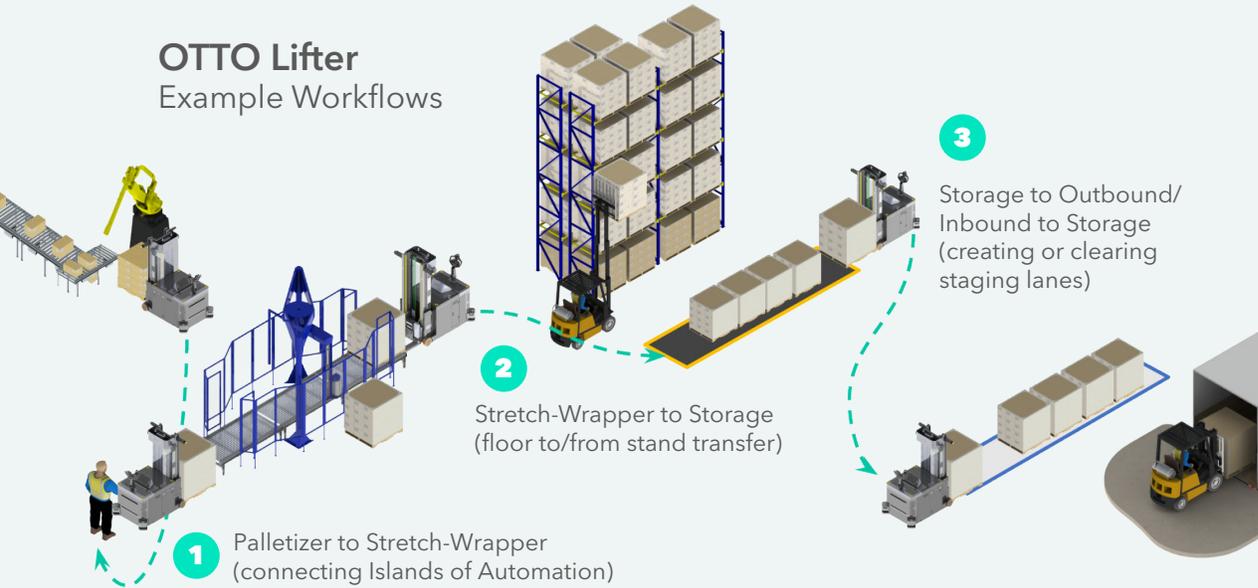
With advanced safety sensors and class-leading autonomous driving capabilities, OTTO Lifter works safely alongside people, existing infrastructure and other vehicles.

**OPTIMIZE YOUR
WORKFORCE**

Remove operators from repetitive and dangerous tasks. Your team can quickly dispatch deliveries and add new workflows from a workstation or tablet – all while minimizing downtime.



OTTO Lifter Example Workflows



KEY FEATURES

Intelligent pallet detection for skewed, off-centred pallets and stretch-wrap covered entry notches

One-touch autonomous lane clearing

Adaptive Fieldset Technology maximizes speed while maintaining safety

Single Fleet Manager for all OTTO vehicles

Continuous re-mapping of zones for dynamic environments

Technical Specifications

PERFORMANCE

Maximum Total Payload	1200 kg (2640 lbs)	Docking Accuracy – Raised Drop-offs with Docking Target	X = +/- 13 mm (.5 in); Y = +/- 10mm (.4 in) Yaw= +/- 1.0 degrees
Load Center	623 mm (24.5 in)	Minimum aisle width for one way traffic	3152 mm (10 ft 4 in) at speed, full speed 2300 mm (7 ft 7 in) reduced speed
Maximum Speed	1.5 m/s (3.3 mph)	Minimum aisle width for 2 way traffic	5391 mm (17 ft 9 in), full speed 4113 mm (13 ft 6 in) reduced speed
Turning Radius	1420 mm (56 in) – Manual mode 1985 mm (78 in) – Autonomous mode	Minimum width for 90 degree turn-in	4268 mm (14 ft 0 in)
Max Lift Height	2.7 m (106 in); 76cm (30 in) in autonomous mode	Minimum space around pallet (single layer)	200 mm (8 in)
Docking Accuracy	+/- 50 mm (2.0 in)	Gradeability	No slopes > 1 degree / 1.7% grade

CHASSIS

Dimensions	Length: 2841 mm = 1607 mm veh + 1234 mm forks (112 in = 64 in + 48 in) Width: 1201 mm (47 in) Height: 2155 mm (85 in)	Width Across Forks	592mm (23.3 in)
Wheelbase	1150 mm (45.3 in)	Mast Height with forks at lowest position	2155 mm (84.8 in)
Fork Width	142 mm (5.6 in)	Ground Clearance	45 mm (1.8 in)
		Mass	2411 kg (5315 lb)

ENERGY SYSTEM

Nominal Battery Voltage	24 V lead acid battery
Battery Capacity	375 Ahr
Battery Dimensions	850 x 219 x 627 mm (33.5 x 8.6 x 24.7 in)
Battery Charging	Easily swappable batteries or opportunity charging between shifts Approximately 3 hrs from 20% to 80%

CONTROL SYSTEM

Sensors and Cameras	5x Intel RealSense Cameras 3x SICK Microscan3 (360° FOV)
Blue Lights	Two, front and back; Shows direction of movement
Lights and Emergency Stopping	270° LED lighting, 4 emergency stop buttons
Communication	WiFi 2.4 / 5 GHz (802.11 a/b/g/n/ac)
Standards Compliance	FCC (RF, e.g. WiFi, 5G) & ICES, ISO 12100, ISO 13849

LOAD REQUIREMENT

Pallet Types	CHEP, PECO, Block and/or GMA pallets, Wood, Grade A
Pallet Sizes	1019 x 1219 mm (40 x 48 in)
Max Height	At 1000 kg (2200 lbs): 183 cm (72 in) At 1200 kg (2640 lbs): 134 cm (53 in)



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