

Technical Specifications

OTTO Lifter

OTTO Lifter is a heavy-duty autonomous forklift that moves pallets up to 1,200 kg between stands, machines and floor locations. Equipped with powerful autonomy software that makes intelligent, real-time decisions, OTTO Lifter safely delivers materials to the right place, at the right time.



PALLET PICK-UP

OTTO Lifter reliably assesses and picks up pallets, even when they are misplaced or stretch-wrapped.

SMOOTH HANDLING

OTTO Lifter's safety-rated technology prevents collisions and keeps pallets stable during quick turns.

USER - FRIENDLY

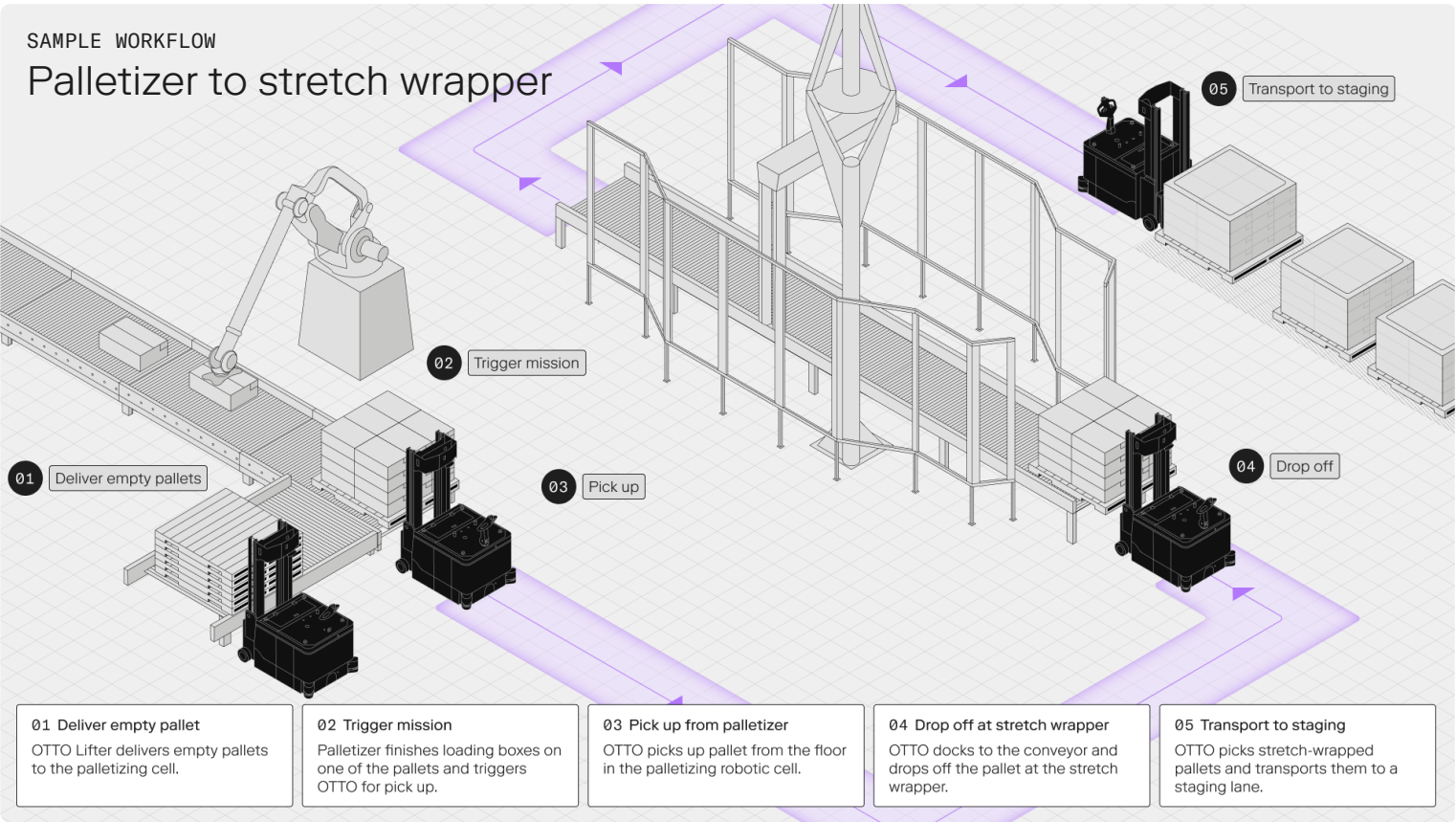
Seamlessly transition between autonomous and manual modes, and use the integrated display to easily assess the status and dispatch tasks.

PERFORMANCE

Max. Total Payload	1,200 kg (2,640 lb)	Docking Accuracy	X = +/- 13 mm (0.5 in); Y = +/- 10 mm (0.4 in) Yaw = +/- 1.0°
Load Center	623 mm (24.5 in)	— Raised Drop-offs With Docking Target	
Max. Speed	1.5 m/sec (3.3 mph)	Min. Aisle Width (one way, no payload)	2,186 mm (7 ft 2 in)
Turning Radius	1,420 mm (56 in) — Manual mode 1,985 mm (78 in) — Autonomous mode	Min. Aisle Width (two way, no payload)	4,113 mm (13 ft 6 in)
Max. Lift Height	2.7 m (106 in) — Manual mode 1.0m (39 in) — Autonomous mode	Min. Width for 90° Turn-In	4,268 mm (14 ft 0 in)
Pallet Docking Accuracy	+/- 50 mm (2.0 in)	Min. Space Around Pallet (single layer)	200 mm (8 in)
Gradeability	No slopes > 1° / 1.7% grade		

LOAD REQUIREMENT

Pallet Types	Wood, Grade A pallets: CHEP, PECO, Block and/or GMA Orbis HDMC 48-45	Pallet Sizes	1,016 mm x 1,219 mm (40 x 48 in) 1,143 mm x 1,219 mm (45 x 48 in)
		Max. Height	At 1,000 kg (2,200 lb): 183 cm (72 in) At 1,200 kg (2,640 lb): 134 cm (53 in)



CHASSIS

Dimensions	Total Length: 2,841 mm (112 in) Width: 1,201 mm (47 in) Height: 2,155 mm (85 in)	Width Across Forks	592 mm (23.3 in)
Wheelbase	1,150 mm (45.3 in)	Mast Height with forks at lowest position	2,155 mm (84.8 in)
Fork Width	142 mm (5.6 in)	Ground Clearance	45 mm (1.8 in)
Fork Length	1,234 mm (48 in)	Mass	2,521 kg (5,558 lb)

ENERGY SYSTEM

Nominal Battery Voltage	24 V lead acid battery 25.6 V lithium battery	Battery Charging	Lead-acid: Easily swappable batteries or opportunity charging between shifts Approximately 6 hours from 10% to 90%
Battery Capacity	Lead acid: 375 Ah Lithium: 270 Ah		Lithium: Autonomous supercharger (200 A) Approximately 1 hour from 10% to 90% Manual trickle charger
Battery Dimensions	850 x 219 x 627 mm (33.5 x 8.6 x 24.7 in)		

CONTROL SYSTEM

Sensors and Cameras	5x Intel RealSense Cameras 3x SICK Microscan3 (360° FOV)	Communication	WiFi 2.4 / 5 GHz (802.11 a/b/g/n/ac) 2x Long-range Omnidirectional Antennae
Blue Lights	Two, front and back; Shows direction of movement	Standards Compliance	ANSI/ITSDF B56.5, ISO 12100/13849-1, FCC Part 15 Subpart B / ICES-003, ICES-002, EN 1175-1/60204-1
Lights and Emergency Stopping	270° LED lighting, 4 emergency stop buttons	Ambient Temperature	5 to 35° C (41 to 95°F)

For more information visit ottomotors.com/lifter
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