

## 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

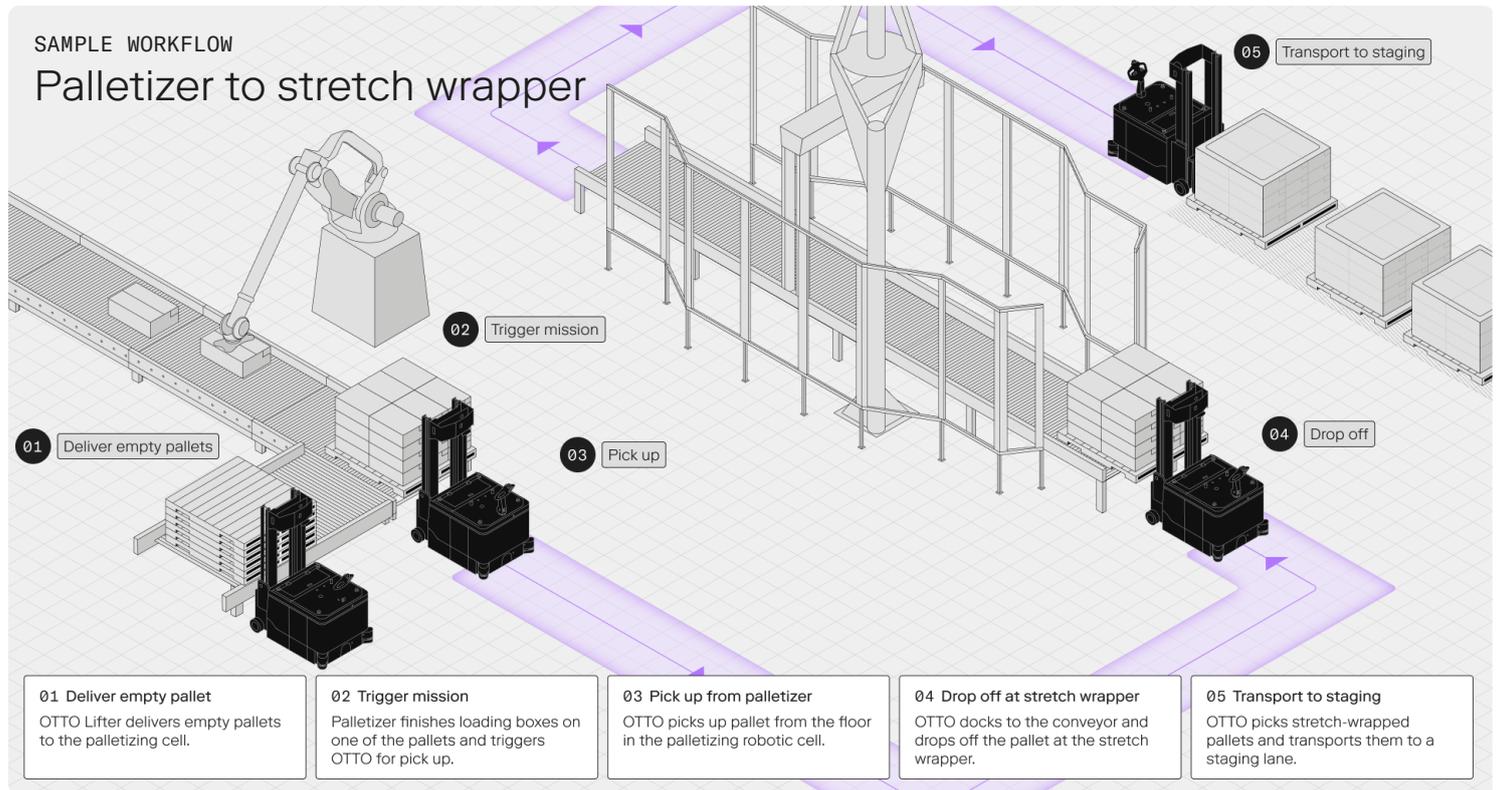
Seamlessly transition between autonomous and manual modes, and use the integrated display to easily assess the status and dispatch tasks.

## PERFORMANCE

Max. Total Payload	1200 kg (2640 lbs)	Docking Accuracy	X = +/- 13 mm (0.5 in); Y = +/- 10 mm (0.4 in) Yaw = +/- 1.0 degrees
Load Center	623 mm (24.5 in)	Min. Aisle Width (One Way)	3152 mm (10 ft 4 in) at speed, full speed 2300 mm (7 ft 7 in) reduced speed
Max. Speed	1.5 m/sec (3.3 mph)	Min. Aisle Width (Two Way)	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	Min. width for 90 degree turn-in	4268 mm (14 ft 0 in)
Max. Lift Height	2.7 m (106 in) — Manual mode 1.0m (39 in) — Autonomous mode	Min. space around pallet (single layer)	200 mm (8 in)
Pallet Docking Accuracy	+/- 50 mm (2.0 in)		
Gradeability	No slopes > 1 degree / 1.7% grade		

## LOAD REQUIREMENT

Pallet Types	Wood, Grade A pallets: CHEP, PECO, Block and/or GMA Orbis HDMC 48-45	Pallet Sizes	1016 mm x 1219 mm (40 x 48 in) 1143 mm x 1219 mm (45 x 48 in)
		Max. Height	At 1000 kg (2200 lbs): 183 cm (72 in) At 1200 kg (2640 lbs): 134 cm (53 in)



## CHASSIS

Dimensions	Total Length: 2841 mm (112 in)	Width Across Forks	592mm (23.3 in)
	Width: 1201 mm (47 in)		Mast Height
	Height: 2155 mm (85 in)	with forks at lowest position	2155 mm (84.8 in)
Wheelbase	1150 mm (45.3 in)	Ground Clearance	45 mm (1.8 in)
Fork Width	142 mm (5.6 in)	Mass	2521 kg (5558 lbs)
Fork Length	1234 mm (48 in)		

## 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 hrs from 10% to 90%
Battery Capacity	Lead acid: 375 Ahr Lithium: 270 Ahr		Lithium: Autonomous supercharger (200 A) Approximately 1 hr from 10% to 90%
Battery Dimensions	850 x 219 x 627 mm (33.5 x 8.6 x 24.7 in)		Manual trickle charger

## 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		

For more information visit [ottomotors.com/lifter](http://ottomotors.com/lifter)  
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