

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.

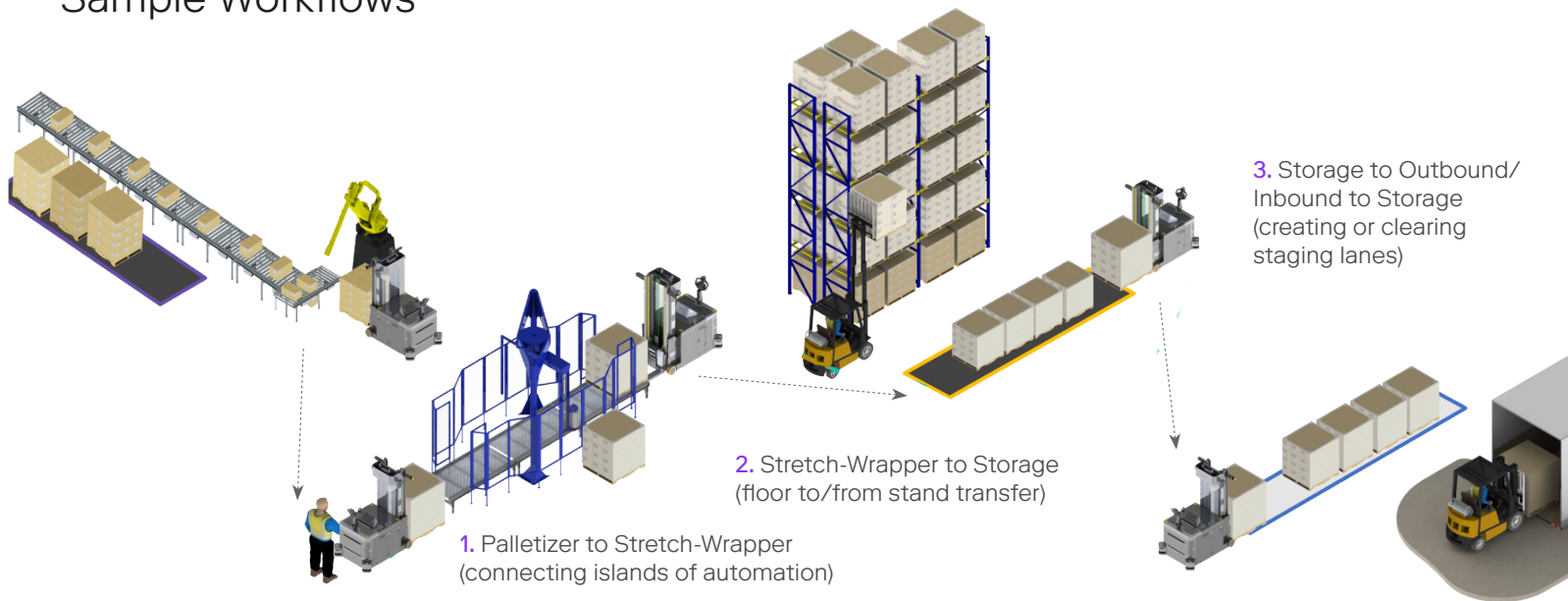
PERFORMANCE

| | | | |
|--------------------|--|---|--|
| 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) | — Raised Drop-offs with Docking Target | |
| Max. Speed | 1.5 m/sec (3.3 mph) | Min. Aisle Width (One Way) | 3152 mm (10 ft 4 in) at speed, full speed 2300 mm (7 ft 7 in) reduced speed |
| Turning Radius | 1420 mm (56 in) — Manual mode 1985 mm (78 in) — Autonomous mode | Min. Aisle Width (Two Way) | 5391 mm (17 ft 9 in), full speed 4113 mm (13 ft 6 in) reduced speed |
| Max. Lift Height | 2.7 m (106 in) — Manual mode 1.0m (39 in) — Autonomous mode | Min. width for 90 degree turn-in | 4268 mm (14 ft 0 in) |
| Docking Accuracy | +/- 50 mm (2.0 in) | Min. space around pallet (single layer) | 200 mm (8 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 | 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) |

Sample Workflows



CHASSIS

| | | | |
|------------|--|--|--------------------|
| Dimensions | Length: 2841 mm = 1607 mm veh + 1234 mm forks (112 in = 64 in + 48 in) | Width Across Forks | 592mm (23.3 in) |
| | Width: 1201 mm (47 in) Height: 2155 mm (85 in) | Mast Height 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) |

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% Manual trickle charger |
| Battery Dimensions | 850 x 219 x 627 mm (33.5 x 8.6 x 24.7 in) | | | |

CONTROL SYSTEM

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|-------------------------------|---|----------------------|--|
| 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 | ISO 12100, ISO 13849-1 ANSI/ITSDF B56.5, EN 60204-1, EN 1175-1 FCC Part 15 Subpart B, ICES-003, ICES-002 |
| Lights and Emergency Stopping | 270° LED lighting, 4 emergency stop buttons | | |

For more information visit ottomotors.com/lifter
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