



The Mobile Robot Company

Knowledge Center — J1600 Fact Sheet · 2026-08-04

<https://info.mobilerobot.com/newsroom/media-kit/j1600-fact-sheet>

J1600 Fact Sheet

Key facts about the J1600 for journalists and analysts. For the complete specification set, see [Technical Specifications](https://info.mobilerobot.com/products/j1600/technical-specifications/) (<https://info.mobilerobot.com/products/j1600/technical-specifications/>); for the product story, see the [J1600 overview](https://info.mobilerobot.com/products/j1600/overview/) (<https://info.mobilerobot.com/products/j1600/overview/>).

What it is

The J1600 is The Mobile Robot Company's first product: a compact, electric, [dual-mode](https://info.mobilerobot.com/products/j1600/dual-mode/) (<https://info.mobilerobot.com/products/j1600/dual-mode/>), self-driving pallet jack for indoor, floor-to-floor pallet transport. It can be operated with a tiller like a conventional walk-behind electric pallet jack or sent autonomously to saved locations. The operator performs judgment-heavy pickup, [exception handling](https://info.mobilerobot.com/applications/scenarios/handling-exceptions-and-irregular-loads/) (<https://info.mobilerobot.com/applications/scenarios/handling-exceptions-and-irregular-loads/>), and task initiation; the robot performs repetitive travel and floor-level drop-off. The company positions it in the space between a conventional electric pallet jack and a fully automated [AGV/AMR](https://info.mobilerobot.com/documentation/concepts/mobile-robot-terminology/) (<https://info.mobilerobot.com/documentation/concepts/mobile-robot-terminology/>) system, targeting [up to 80% reduction in manual work on repetitive transport](https://info.mobilerobot.com/applications/results/productivity-improvements/) (<https://info.mobilerobot.com/applications/results/productivity-improvements/>).

PRELIMINARY SPECIFICATIONS

The January 2026 specifications below are preliminary and subject to change.

Key specifications

Parameter	Value
Drive type	Electric
Rated payload	1,600 kg / approximately 3,500 lb
Maximum manual pallet pick/drop height	1,600 mm / 63 in
Automatic pallet delivery height	Floor level
Top speed	5.4 km/h / 1.5 m/s / 3.4 mph
Truck weight	980 kg
Vehicle size (forks lowered)	1,893 × 850 × 2,060 mm
Turning radius	1,501 mm
Navigation	3D LiDAR SLAM, no fixed infrastructure required
Compute	Industrial NVIDIA Jetson AI computer
Interface	15-inch multi-touch HMI, start/resume button, key switch
Battery	24 V, 200 Ah lithium iron phosphate (LiFePO4)
Runtime	Exceeds eight hours in a typical duty cycle
Ingress protection	IP21
Operating temperature	5–40°C / 41–104°F
Operator training	About 30 minutes
Basic deployment	Wi-Fi optional; no mandatory IT integration
Saved locations	No software limit
Manufacture	Made in Denmark

The 1.6 m lift is a manual capability; autonomous delivery is at floor level.

Safety

- 360-degree protective field with [speed-dependent zones that expand at higher speeds](https://info.mobilerobot.com/safety-compliance/safety-functions/safety-field-adjustment/) (<https://info.mobilerobot.com/safety-compliance/safety-functions/safety-field-adjustment/>).
- Two 2D safety LiDAR scanners, separate from the 3D navigation LiDAR
- Independent safety controller, three emergency-stop buttons, and certified components
- Operator must confirm entry into automatic mode; blue floor lights display the protected area
- Immediate manual takeover by grabbing or moving the tiller

Details are in [How J1600 safety works](https://info.mobilerobot.com/safety-compliance/safety-overview/how-j1600-safety-works/) (<https://info.mobilerobot.com/safety-compliance/safety-overview/how-j1600-safety-works/>).

Compliance

The J1600 is [CE marked](https://info.mobilerobot.com/safety-compliance/certificates/ce-declaration-of-conformity/) (<https://info.mobilerobot.com/safety-compliance/certificates/ce-declaration-of-conformity/>). Its preliminary [compliance list](https://info.mobilerobot.com/safety-compliance/certificates/compliance-statements/) (<https://info.mobilerobot.com/safety-compliance/certificates/compliance-statements/>) includes the [Machinery Directive](https://info.mobilerobot.com/safety-compliance/standards/eu-machinery-requirements/) (<https://info.mobilerobot.com/safety-compliance/standards/eu-machinery-requirements/>) (2006/42/EC), the [EMC Directive \(2014/30/EU\)](#), the [Radio Equipment Directive \(2014/53/EU\)](#), [RoHS \(2011/65/EU\)](#), and the [EU Batteries Regulation \(2023/1542\)](#) (<https://info.mobilerobot.com/safety-compliance/standards/emc-red-rohs-and-battery-regulations/>), plus [EN ISO 3691-4:2023](https://info.mobilerobot.com/safety-compliance/standards/iso-3691-4/) (<https://info.mobilerobot.com/safety-compliance/standards/iso-3691-4/>), [EN ISO 13849-1:2023](https://info.mobilerobot.com/safety-compliance/standards/iso-13849-1/) (<https://info.mobilerobot.com/safety-compliance/standards/iso-13849-1/>), [EN ISO 12100:2010](https://info.mobilerobot.com/safety-compliance/standards/iso-12100/) (<https://info.mobilerobot.com/safety-compliance/standards/iso-12100/>), [EN ISO 3691-1:2015+A1:2020](https://info.mobilerobot.com/safety-compliance/standards/iso-3691-1/) (<https://info.mobilerobot.com/safety-compliance/standards/iso-3691-1/>), [ANSI/ITSDF B56.5-2024](https://info.mobilerobot.com/safety-compliance/standards/ansi-itsdf-b56-5/) (<https://info.mobilerobot.com/safety-compliance/standards/ansi-itsdf-b56-5/>), [ANSI/ITSDF B56.1-2020](https://info.mobilerobot.com/safety-compliance/standards/ansi-itsdf-b56-1/) (<https://info.mobilerobot.com/safety-compliance/standards/ansi-itsdf-b56-1/>), and [UN 38.3 battery transport testing](https://info.mobilerobot.com/safety-compliance/certificates/battery-un-38-3-documentation/) (<https://info.mobilerobot.com/safety-compliance/certificates/battery-un-38-3-documentation/>).

Software

One hardware platform supports two software versions: [Standard software](https://info.mobilerobot.com/products/software/standard-software/) (<https://info.mobilerobot.com/products/software/standard-software/>) built around configuration-free [Teach and Repeat](https://info.mobilerobot.com/documentation/concepts/teach-and-repeat/) (<https://info.mobilerobot.com/documentation/concepts/teach-and-repeat/>) for

single-unit deployments, and [Advanced software](https://info.mobilerobot.com/products/software/advanced-software/) (<https://info.mobilerobot.com/products/software/advanced-software/>) adding [VDA 5050](https://info.mobilerobot.com/products/software/vda-5050/) (<https://info.mobilerobot.com/products/software/vda-5050/>), interoperability, a [REST API](https://info.mobilerobot.com/documentation/technical-integration/rest-api-documentation/) (<https://info.mobilerobot.com/documentation/technical-integration/rest-api-documentation/>), [Fleet Manager](https://info.mobilerobot.com/documentation/technical-integration/fleet-manager-guide/) (<https://info.mobilerobot.com/documentation/technical-integration/fleet-manager-guide/>), and advanced mission planning.

List pricing (2026)

Item	End-user list price
J1600 self-driving pallet jack	from €65,000
Two-week paid trial, including setup and support	€4,000
Installation and commissioning	€10,000
Manual charger	€3,600
Automatic charger	€8,400
Advanced software upgrade	€14,500
Fleet Manager, per robot	€6,500
Basic Care support, per robot/year	€4,900
Full Care support, per robot/year	€13,000

A [typical customer configuration](https://info.mobilerobot.com/products/j1600/pricing-and-roi/) (<https://info.mobilerobot.com/products/j1600/pricing-and-roi/>) is expected to cost around or below €80,000.

Launch timeline

Date	Milestone
20 October 2025	Recorded market launch
2 December 2025	Pre-orders open
January 2026	First-product launch
Q2 2026	Scheduled shipping window

These are [four distinct milestones](https://info.mobilerobot.com/company/history/product-launch-timeline/) and should not be collapsed into a single launch date.

Recognition

The J1600 was a 2026 IFOY finalist, passed the three-stage IFOY Audit, received the [Best in Intralogistics Certificate](https://info.mobilerobot.com/newsroom/awards/best-in-intralogistics/) on 16 April 2026, and won the IFOY AWARD 2026 Industrial Truck of the Year, announced 26 June 2026. The [IFOY Innovation Check](https://info.mobilerobot.com/newsroom/awards/ifoy-innovation-check/) rated functionality and implementation ++ and novelty, customer benefits, and market relevance +. See [Awards](https://info.mobilerobot.com/newsroom/press-releases/awards/).

Media resources

Company background is in the [Company Fact Sheet](https://info.mobilerobot.com/newsroom/media-kit/company-fact-sheet/) and [Company Boilerplate](https://info.mobilerobot.com/newsroom/media-kit/company-boilerplate/). Logos are in [Logos](https://info.mobilerobot.com/newsroom/media-kit/logos/). Press contacts are in [Media Contacts](https://info.mobilerobot.com/newsroom/media-kit/media-contacts/).