



# The Mobile Robot Company

Knowledge Center — Overview · 2026-08-04

<https://info.mobilerobot.com/products/j1600/overview>

# Overview

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The **J1600** is [The Mobile Robot Company](https://info.mobilerobot.com/company/about/company-overview/)'s first product: a compact, electric, dual-mode self-driving pallet jack for indoor, floor-to-floor pallet transport. You can [operate it with a tiller](https://info.mobilerobot.com/documentation/user-guides/manual-operation/) like a conventional walk-behind electric pallet jack, or send it autonomously to saved locations. [The operator stays responsible for task initiation and judgment-heavy handling](https://info.mobilerobot.com/documentation/user-guides/operator-manual/); the robot performs the repetitive travel and floor-level drop-off.

## Core product facts

| Attribute                         | Value                                                                                                                                                                                                                                   |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product category                  | Self-driving pallet jack (warehouse truck, lowlifter class)                                                                                                                                                                             |
| Drive                             | Electric                                                                                                                                                                                                                                |
| Operating modes                   | Manual and autonomous ( <a href="https://info.mobilerobot.com/products/j1600/dual-mode/">dual mode</a> ( <a href="https://info.mobilerobot.com/products/j1600/dual-mode/">https://info.mobilerobot.com/products/j1600/dual-mode/</a> )) |
| Maximum rated payload             | 1,600 kg / about 3,500 lb                                                                                                                                                                                                               |
| Maximum manual pick/drop height   | 1,600 mm / 63 in                                                                                                                                                                                                                        |
| Autonomous pallet delivery height | Floor level                                                                                                                                                                                                                             |
| Top speed                         | 5.4 km/h / 1.5 m/s / 3.4 mph                                                                                                                                                                                                            |
| Truck weight                      | 980 kg                                                                                                                                                                                                                                  |
| Navigation                        | 3D LiDAR SLAM on an industrial NVIDIA Jetson computer                                                                                                                                                                                   |
| Safety field                      | 360-degree, with two 2D safety LiDARs and speed-dependent zones                                                                                                                                                                         |
| Interface                         | 15-inch multi-touch HMI plus start/resume button and key switch                                                                                                                                                                         |
| Operator training                 | About 30 minutes                                                                                                                                                                                                                        |
| Basic deployment                  | Wi-Fi optional; no mandatory IT integration                                                                                                                                                                                             |
| Saved locations                   | No software limit                                                                                                                                                                                                                       |
| Manufacture                       | Made in Denmark                                                                                                                                                                                                                         |

### PRELIMINARY SPECIFICATIONS

The January 2026 specifications are preliminary and subject to change. See [Technical specifications](https://info.mobilerobot.com/products/j1600/technical-specifications/) (<https://info.mobilerobot.com/products/j1600/technical-specifications/>) for the full data set.

## What it automates

The operator manually handles pallet pickup and any maneuver that requires context. From the [touchscreen](https://info.mobilerobot.com/documentation/technical-reference/interface-specifications/) (<https://info.mobilerobot.com/documentation/technical-reference/interface-specifications/>), the operator selects or creates a task, [confirms autonomous mode](https://info.mobilerobot.com/documentation/user-guides/autonomous-operation/) (<https://info.mobilerobot.com/documentation/user-guides/autonomous-operation/>), and steps away. The J1600 performs the repetitive drive and floor-level drop, then [returns to origin](https://info.mobilerobot.com/applications/scenarios/deliver-and-return/) (<https://info.mobilerobot.com/applications/scenarios/deliver-and-return/>), parks, stops and waits, or continues to another saved location, depending on the task. The full workflow is described in [How it works](https://info.mobilerobot.com/products/j1600/how-it-works/) (<https://info.mobilerobot.com/products/j1600/how-it-works/>).

## Why dual mode matters

Dual mode is the product's defining distinction. Manual control preserves the [flexibility](https://info.mobilerobot.com/applications/results/operational-flexibility/) (<https://info.mobilerobot.com/applications/results/operational-flexibility/>) to unload trucks, handle [unstable or sensitive loads](https://info.mobilerobot.com/applications/use-cases/sensitive-or-unstable-loads/) (<https://info.mobilerobot.com/applications/use-cases/sensitive-or-unstable-loads/>), work around congestion, and respond to exceptions. Autonomy [removes repeated walking](https://info.mobilerobot.com/applications/results/reduction-in-manual-walking/) (<https://info.mobilerobot.com/applications/results/reduction-in-manual-walking/>) and travel. The J1600 occupies a tier between manual electric pallet jacks and conventional [AGVs \(automated guided vehicles\)](https://info.mobilerobot.com/documentation/concepts/mobile-robot-terminology/) (<https://info.mobilerobot.com/documentation/concepts/mobile-robot-terminology/>) or fully automated systems: it targets up to 80% of the [productivity benefit](https://info.mobilerobot.com/applications/results/productivity-improvements/) (<https://info.mobilerobot.com/applications/results/productivity-improvements/>) of full automation at a fraction of the cost and complexity. See [Dual mode](https://info.mobilerobot.com/products/j1600/dual-mode/) (<https://info.mobilerobot.com/products/j1600/dual-mode/>) and [Human-in-the-loop automation](https://info.mobilerobot.com/documentation/concepts/human-in-the-loop-automation/) (<https://info.mobilerobot.com/documentation/concepts/human-in-the-loop-automation/>).

## Key benefits

- Up to 80% reduction in manual work and operator time on repetitive transport.
- Familiar manual handling and immediate human takeover.
- Fast [teach-and-repeat](https://info.mobilerobot.com/documentation/concepts/teach-and-repeat/) (<https://info.mobilerobot.com/documentation/concepts/teach-and-repeat/>) setup and redeployment.
- No-code touchscreen operation.
- No infrastructure changes or [mandatory Wi-Fi](https://info.mobilerobot.com/documentation/installation/network-and-wi-fi-requirements/) (<https://info.mobilerobot.com/documentation/installation/network-and-wi-fi-requirements/>) for basic use.
- 3D mapping and obstacle avoidance in changing environments.
- [Layered safety](https://info.mobilerobot.com/safety-compliance/safety-overview/how-j1600-safety-works/) (<https://info.mobilerobot.com/safety-compliance/safety-overview/how-j1600-safety-works/>) architecture with certified components.

- Lower entry cost and shorter time to value than a large automation project.
- Progressive scaling through [automatic charging](https://info.mobilerobot.com/applications/scenarios/automatic-charging/) (<https://info.mobilerobot.com/applications/scenarios/automatic-charging/>), [Advanced software](https://info.mobilerobot.com/products/software/advanced-software/) (<https://info.mobilerobot.com/products/software/advanced-software/>), [VDA 5050](https://info.mobilerobot.com/products/software/vda-5050/) (<https://info.mobilerobot.com/products/software/vda-5050/>), APIs, and [fleet management](https://info.mobilerobot.com/documentation/technical-integration/fleet-manager-guide/) (<https://info.mobilerobot.com/documentation/technical-integration/fleet-manager-guide/>).

Details are on [Features and benefits](https://info.mobilerobot.com/products/j1600/features-and-benefits/) (<https://info.mobilerobot.com/products/j1600/features-and-benefits/>).

# Recognition

The J1600 won the [IFOY AWARD 2026 Industrial Truck of the Year](https://info.mobilerobot.com/newsroom/awards/ifoy-award-2026/) (<https://info.mobilerobot.com/newsroom/awards/ifoy-award-2026/>) category, announced on 26 June 2026 after the ceremony in Stuttgart. On the way to the win it was named a finalist on 29 January 2026, passed the three-stage IFOY Audit at [TEST CAMP INTRALOGISTICS](https://info.mobilerobot.com/newsroom/events/test-camp/) (<https://info.mobilerobot.com/newsroom/events/test-camp/>) in Dortmund, and received the [Best in Intralogistics Certificate](https://info.mobilerobot.com/newsroom/awards/best-in-intralogistics/) (<https://info.mobilerobot.com/newsroom/awards/best-in-intralogistics/>) on 16 April 2026. The scientific [Innovation Check](https://info.mobilerobot.com/newsroom/awards/ifoy-innovation-check/) (<https://info.mobilerobot.com/newsroom/awards/ifoy-innovation-check/>) rated functionality and implementation ++ (very good) and novelty, customer benefit, and market relevance + (good).

# Launch milestones

| Date            | Milestone                                         |
|-----------------|---------------------------------------------------|
| 20 October 2025 | Market launch                                     |
| 2 December 2025 | Pre-orders open                                   |
| January 2026    | The J1600 launches as the company's first product |
| Q2 2026         | Scheduled shipping window                         |

These are [four distinct milestones](https://info.mobilerobot.com/company/history/product-launch-timeline/) (<https://info.mobilerobot.com/company/history/product-launch-timeline/>), not one event.

## Availability

The J1600 is [available worldwide](https://info.mobilerobot.com/partners/become-a-partner/country-availability/) (<https://info.mobilerobot.com/partners/become-a-partner/country-availability/>), including in the United States, Canada, Australia, and China. By June 2026 the company had [distributor partnerships in eight countries](https://info.mobilerobot.com/company/history/growth-and-international-expansion/) (<https://info.mobilerobot.com/company/history/growth-and-international-expansion/>). List prices are public, and customer inquiries are handled through the partner network — see [Pricing and ROI](https://info.mobilerobot.com/products/j1600/pricing-and-roi/) (<https://info.mobilerobot.com/products/j1600/pricing-and-roi/>) and the [partner section](https://info.mobilerobot.com/category/partners/) (<https://info.mobilerobot.com/category/partners/>).

## Where to go next

- [How it works](https://info.mobilerobot.com/products/j1600/how-it-works/) (<https://info.mobilerobot.com/products/j1600/how-it-works/>) — setup, saved locations, and the delivery workflow.
- [Technical specifications](https://info.mobilerobot.com/products/j1600/technical-specifications/) (<https://info.mobilerobot.com/products/j1600/technical-specifications/>) — the master data table.
- [Safety overview](https://info.mobilerobot.com/products/j1600/safety-overview/) (<https://info.mobilerobot.com/products/j1600/safety-overview/>) — layered safety architecture and standards.
- [Software and integrations](https://info.mobilerobot.com/products/j1600/software-and-integrations/) (<https://info.mobilerobot.com/products/j1600/software-and-integrations/>) — Standard and Advanced software, VDA 5050, APIs.
- [Applications](https://info.mobilerobot.com/products/j1600/applications/) (<https://info.mobilerobot.com/products/j1600/applications/>) — use cases and target environments.
- [Frequently asked questions](https://info.mobilerobot.com/support/faq/product-and-capabilities/) (<https://info.mobilerobot.com/support/faq/product-and-capabilities/>) — quick answers about product capabilities.