



The Mobile Robot Company

Knowledge Center — Glossary · 2026-08-04

<https://info.mobilerobot.com/documentation/concepts/glossary>

Glossary

Compact definitions of the terms used across the Knowledge Center, in alphabetical order. For fuller explanations of the central concepts, follow the links.

A–C

AGV — [Automated guided vehicle](https://info.mobilerobot.com/documentation/concepts/mobile-robot-terminology/) (<https://info.mobilerobot.com/documentation/concepts/mobile-robot-terminology/>); the conventional automation category contrasted with the J1600's product tier between manual pallet jacks and full automation.

AMR — Autonomous mobile robot; a broad label applied to the J1600 and comparable mobile automation.

API / REST API — Software interface for integrating the J1600 with other software and equipment; included in the [Advanced software](https://info.mobilerobot.com/products/software/advanced-software/) (<https://info.mobilerobot.com/products/software/advanced-software/>). See [REST API documentation](https://info.mobilerobot.com/documentation/technical-integration/rest-api-documentation/) (<https://info.mobilerobot.com/documentation/technical-integration/rest-api-documentation/>).

Automatic charging — Optional capability where the robot drives to a charging station, positions itself, and charges through extending contact plates; an advanced automation function. See [Automatic Charging](https://info.mobilerobot.com/applications/scenarios/automatic-charging/) (<https://info.mobilerobot.com/applications/scenarios/automatic-charging/>).

Boomerang — Task pattern: [deliver to a destination and return](https://info.mobilerobot.com/applications/scenarios/deliver-and-return/) (<https://info.mobilerobot.com/applications/scenarios/deliver-and-return/>) to the origin/operator. See [example workflows](https://info.mobilerobot.com/documentation/technical-integration/example-workflows/) (<https://info.mobilerobot.com/documentation/technical-integration/example-workflows/>).

Brownfield — An existing facility or process not designed around new automation. The J1600 is designed for [brownfield sites](https://info.mobilerobot.com/applications/use-cases/brownfield-automation/) (<https://info.mobilerobot.com/applications/use-cases/brownfield-automation/>).

CE marked — European conformity marking; the J1600 is CE marked. See [CE Declaration of Conformity](https://info.mobilerobot.com/safety-compliance/certificates/ce-declaration-of-conformity/) (<https://info.mobilerobot.com/safety-compliance/certificates/ce-declaration-of-conformity/>).

Come to me — Advanced automation function that calls the robot to a location through a mobile app or web interface. See [Come-to-Me](https://info.mobilerobot.com/applications/scenarios/come-to-me/) (https://info.mobilerobot.com/applications/scenarios/come-to-me/).

D-I

Dual mode — Manual pallet-jack operation plus operator-initiated autonomous travel in one vehicle. See [dual mode](https://info.mobilerobot.com/documentation/concepts/dual-mode/) (https://info.mobilerobot.com/documentation/concepts/dual-mode/).

EPAL — European Pallet Association pallet formats; the J1600 supports the [EPAL Euro Pallet, EPAL 3, and EPAL 6](https://info.mobilerobot.com/products/j1600/pallet-and-load-compatibility/) (https://info.mobilerobot.com/products/j1600/pallet-and-load-compatibility/).

Experience center — A partner-maintained showroom with a dedicated robot, pallets, and chargers for hands-on customer demonstrations.

Fleet Manager — Per-robot software for orchestrated multi-robot J1600 deployments. See the [Fleet Manager guide](https://info.mobilerobot.com/documentation/technical-integration/fleet-manager-guide/) (https://info.mobilerobot.com/documentation/technical-integration/fleet-manager-guide/).

GMA pallet — Grocery Manufacturers Association pallet format; open-base variants are supported within the J1600's size limits.

HMI — Human-machine interface; the J1600 uses a [15-inch multi-touch panel](https://info.mobilerobot.com/documentation/technical-reference/interface-specifications/) (https://info.mobilerobot.com/documentation/technical-reference/interface-specifications/).

Human in the loop — Operating philosophy in which the operator retains judgment, task initiation, pickup, and takeover. See [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/).

IFOY — International Intralogistics and Forklift Truck of the Year award. The J1600 won [Industrial Truck of the Year 2026](https://info.mobilerobot.com/newsroom/awards/ifo-award-2026/) (https://info.mobilerobot.com/newsroom/awards/ifo-award-2026/).

IP21 — The J1600's ingress-protection rating: protected against objects over 12.5 mm and vertically dripping water; indoor use.

J–P

J1600 — [The Mobile Robot Company](https://info.mobilerobot.com/company/about/company-overview/) (https://info.mobilerobot.com/company/about/company-overview/)'s 1,600 kg dual-mode self-driving pallet jack. See the [J1600 overview](https://info.mobilerobot.com/products/j1600/overview/) (https://info.mobilerobot.com/products/j1600/overview/).

LiDAR — Laser ranging sensor. The J1600 uses one 3D LiDAR for mapping and navigation and two 2D safety LiDARs for protective fields.

LiFePO4 — Lithium iron phosphate, the J1600's battery chemistry. See [battery specifications](https://info.mobilerobot.com/documentation/technical-reference/battery-specifications/) (https://info.mobilerobot.com/documentation/technical-reference/battery-specifications/).

Lowlifter — Warehouse-truck class for trucks that lift loads for transport rather than stacking; the J1600's IFOY applicant category.

Pallet location — A [saved destination created by driving the vehicle to a point](https://info.mobilerobot.com/documentation/getting-started/saving-the-first-location/) (https://info.mobilerobot.com/documentation/getting-started/saving-the-first-location/) and tapping **Save location**.

Performance Level (PL) — Safety-function reliability grade under [EN ISO 13849-1](https://info.mobilerobot.com/safety-compliance/standards/iso-13849-1/) (https://info.mobilerobot.com/safety-compliance/standards/iso-13849-1/); J1600 safety functions range from [PL b to PL d](https://info.mobilerobot.com/safety-compliance/safety-functions/performance-levels/) (https://info.mobilerobot.com/safety-compliance/safety-functions/performance-levels/).

POC — [Proof of concept](https://info.mobilerobot.com/applications/planning/proof-of-concept-planning/) (https://info.mobilerobot.com/applications/planning/proof-of-concept-planning/); an on-site validation before wider purchase or deployment.

S–Z

SLAM — Simultaneous localization and mapping; the J1600 runs [3D LiDAR SLAM](https://info.mobilerobot.com/products/j1600/navigation-and-obstacle-avoidance/) (https://info.mobilerobot.com/products/j1600/navigation-and-obstacle-avoidance/) on an industrial NVIDIA Jetson AI computer.

Standard software — The [configuration-light J1600 software](https://info.mobilerobot.com/products/software/standard-software/) (https://info.mobilerobot.com/products/software/standard-software/), built around teach and repeat, intended for single-unit deployments.

Teach and repeat — Task creation by demonstration: the operator drives to a point and saves it; the robot repeats the travel autonomously. See [teach and repeat](https://info.mobilerobot.com/documentation/concepts/teach-and-repeat/) (https://info.mobilerobot.com/documentation/concepts/teach-and-repeat/).

Tiller — The manual pallet-jack handle; on the J1600 it also carries [position switches](https://info.mobilerobot.com/safety-compliance/safety-functions/tiller-detection/) (<https://info.mobilerobot.com/safety-compliance/safety-functions/tiller-detection/>) for emergency stop and manual takeover.

VDA 5050 — Interoperability interface for multi-vendor mobile-robot fleets; fully supported by the J1600 under the Advanced software. See [VDA 5050 explained](https://info.mobilerobot.com/documentation/concepts/vda-5050-explained/) (<https://info.mobilerobot.com/documentation/concepts/vda-5050-explained/>).

WMS — Warehouse management system; not required for basic J1600 use, but commonly integrated in full automation projects.

360-degree safety field — The all-around protective coverage produced by the J1600's [layered safety architecture](https://info.mobilerobot.com/safety-compliance/safety-overview/safety-architecture/) (<https://info.mobilerobot.com/safety-compliance/safety-overview/safety-architecture/>); the field is [speed-dependent and expands 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/>).