



The Mobile Robot Company

Knowledge Center — Software · 2026-08-04

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Software

The J1600's software packages, fleet management, and integration interfaces — what each includes, what it costs, and how the options compare.



Standard Software

What the J1600's Standard software includes — teach-and-repeat task creation, saved locations, and no-code touchscreen operation with no mandatory Wi-Fi or IT integration.



Advanced Software

The J1600 Advanced software upgrade adds VDA 5050 interoperability, a REST API, Fleet Manager, and advanced mission planning. 2026 list price €14,500.



Fleet Manager

Fleet Manager is the J1600's per-robot software for orchestrated multi-robot deployments. 2026 list price €6,500 per robot; part of the Advanced software feature set.



VDA 5050

The J1600 has full VDA 5050 support under Advanced software, letting it run alongside mobile robots from other vendors under one compatible fleet-management layer.



REST API and Integrations

The J1600's REST API and system-integration options under Advanced software — and why basic operation needs no WMS, fleet manager, or IT integration at all.



Software Comparison

Side-by-side comparison of the J1600's Standard and Advanced software packages, the capability ladder from manual functions to advanced automation, and 2026 list prices.

Standard Software

Standard software is the base software on the [J1600 self-driving pallet jack](https://info.mobilerobot.com/products/j1600/overview/) (<https://info.mobilerobot.com/products/j1600/overview/>). It is deliberately reduced to essential functions for maximum ease of use, 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/>), and designed to feel "consumer-level easy" to anyone who already operates an electric pallet jack.

What it includes

- **Teach and Repeat [task creation](https://info.mobilerobot.com/documentation/user-guides/task-management/)** (<https://info.mobilerobot.com/documentation/user-guides/task-management/>) — drive to a point, save it, and reuse it in autonomous tasks. No programming or configuration is required.
- **Touchscreen task launch** — tasks are created and started from the [15-inch multi-touch display](https://info.mobilerobot.com/documentation/technical-reference/interface-specifications/) (<https://info.mobilerobot.com/documentation/technical-reference/interface-specifications/>) on the vehicle.
- **Saved locations** — locations are created by [driving to a point and tapping Save location](https://info.mobilerobot.com/documentation/getting-started/saving-the-first-location/) (<https://info.mobilerobot.com/documentation/getting-started/saving-the-first-location/>). The software has no limit on the number of saved locations.
- **Basic automation functions** — start automatic tasks on-screen, autonomous driving to saved locations, floor-level pallet drop, return-to-me, and go-to-parking.

Working with tasks and locations

The operator [picks up a pallet manually](https://info.mobilerobot.com/applications/scenarios/manual-pickup-and-autonomous-delivery/) (<https://info.mobilerobot.com/applications/scenarios/manual-pickup-and-autonomous-delivery/>), chooses a saved destination on the touchscreen, selects what the robot should do after delivery (return to origin, go to another point or parking, or [stop and wait](https://info.mobilerobot.com/applications/scenarios/deliver-and-wait/) (<https://info.mobilerobot.com/applications/scenarios/deliver-and-wait/>)), and [confirms autonomous mode](https://info.mobilerobot.com/documentation/user-guides/autonomous-operation/) (<https://info.mobilerobot.com/documentation/user-guides/autonomous-operation/>) with the physical start button. Locations can be recombined freely — you do not need to teach every possible A-to-B variation. See [Dual Mode](https://info.mobilerobot.com/products/j1600/dual-mode/) (<https://info.mobilerobot.com/products/j1600/dual-mode/>) for how manual and autonomous operation share one vehicle.

Deployment requirements

Standard software is intended for single-unit deployments without a systems project:

- [Wi-Fi is optional](https://info.mobilerobot.com/documentation/installation/network-and-wi-fi-requirements/) (<https://info.mobilerobot.com/documentation/installation/network-and-wi-fi-requirements/>) for the [basic out-of-box workflow](https://info.mobilerobot.com/products/j1600/how-it-works/) (<https://info.mobilerobot.com/products/j1600/how-it-works/>).
- [No warehouse-management system \(WMS\), fleet manager, or IT integration](https://info.mobilerobot.com/applications/results/lower-integration-complexity/) (<https://info.mobilerobot.com/applications/results/lower-integration-complexity/>) is required.
- No building modifications, tracks, wires, or reflectors are needed — navigation uses [3D LiDAR SLAM](https://info.mobilerobot.com/products/j1600/navigation-and-obstacle-avoidance/) (<https://info.mobilerobot.com/products/j1600/navigation-and-obstacle-avoidance/>).
- [Training](https://info.mobilerobot.com/documentation/getting-started/operator-training/) (<https://info.mobilerobot.com/documentation/getting-started/operator-training/>) takes about 30 minutes for an existing electric-pallet-jack operator, supported by an on-device or online tutorial.

Who it is for

Standard software fits operations that want one robot running quickly: a single J1600 automating repetitive floor-to-floor transport, with operators adding or changing locations themselves instead of calling an automation expert.

Upgrading

When the application grows, the [Advanced software](https://info.mobilerobot.com/products/software/advanced-software/) (<https://info.mobilerobot.com/products/software/advanced-software/>) upgrade adds [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/products/software/fleet-manager/) (<https://info.mobilerobot.com/products/software/fleet-manager/>), advanced mission planning, and deeper system integration. See the [software comparison](https://info.mobilerobot.com/products/software/software-comparison/) (<https://info.mobilerobot.com/products/software/software-comparison/>) for a side-by-side view.

Advanced Software

Advanced software is the upgrade package for the [J1600](https://info.mobilerobot.com/products/j1600/overview/) (<https://info.mobilerobot.com/products/j1600/overview/>). One J1600 hardware platform supports two software versions: [Standard](https://info.mobilerobot.com/products/software/standard-software/) (<https://info.mobilerobot.com/products/software/standard-software/>), reduced to essential functions, and Advanced, which opens the vehicle to fleets and system integration.

What it adds

- **VDA 5050 interoperability** — full support for the multi-vendor fleet interface. See [VDA 5050](https://info.mobilerobot.com/products/software/vda-5050/) (<https://info.mobilerobot.com/products/software/vda-5050/>).
- **REST API** — a software interface for integrating the J1600 with other software and equipment. See [REST API and integrations](https://info.mobilerobot.com/products/software/rest-api-and-integrations/) (<https://info.mobilerobot.com/products/software/rest-api-and-integrations/>).
- **Fleet Manager** — per-robot software for orchestrated multi-robot deployments, priced separately. See [Fleet Manager](https://info.mobilerobot.com/products/software/fleet-manager/) (<https://info.mobilerobot.com/products/software/fleet-manager/>).
- **Advanced mission planning** — beyond the [standard task patterns](https://info.mobilerobot.com/documentation/user-guides/task-management/) (<https://info.mobilerobot.com/documentation/user-guides/task-management/>).
- **Advanced system integration** — [connecting the robot with other software and equipment](https://info.mobilerobot.com/documentation/technical-integration/external-system-integration/) (<https://info.mobilerobot.com/documentation/technical-integration/external-system-integration/>) in the facility.

Price

Item	2026 end-user list price
Upgrade to Advanced software	€14,500

Fleet Manager is priced separately at €6,500 per robot. See [Available options](https://info.mobilerobot.com/products/chargers-and-accessories/available-options/) (<https://info.mobilerobot.com/products/chargers-and-accessories/available-options/>) for the full options catalog.

How the upgrade is installed

The upgrade is easiest to install at the factory when the robot is ordered. A partner can perform the upgrade later on an existing robot; customers cannot install it themselves. If you expect to need fleet operation or integrations, order the upgrade with the robot.

When to choose it

Choose Advanced software when you plan to run more than one robot, coordinate the J1600 with robots from other vendors under a VDA 5050 fleet layer, connect the robot to other systems through [the API](https://info.mobilerobot.com/documentation/technical-integration/rest-api-documentation/) (<https://info.mobilerobot.com/documentation/technical-integration/rest-api-documentation/>), or use advanced mission planning. For a single robot doing [teach-and-repeat](https://info.mobilerobot.com/documentation/concepts/teach-and-repeat/) (<https://info.mobilerobot.com/documentation/concepts/teach-and-repeat/>) transport, [Standard software](https://info.mobilerobot.com/products/software/standard-software/) (<https://info.mobilerobot.com/products/software/standard-software/>) is sufficient — the upgrade path remains open. See the [software comparison](https://info.mobilerobot.com/products/software/software-comparison/) (<https://info.mobilerobot.com/products/software/software-comparison/>).

Fleet Manager

Fleet Manager is per-robot software for orchestrated J1600 deployments. It belongs to the [Advanced software](https://info.mobilerobot.com/products/software/advanced-software/) (<https://info.mobilerobot.com/products/software/advanced-software/>), feature set and is priced per robot, so a fleet's software cost scales with its size.

What it is for

A single J1600 with [Standard software](https://info.mobilerobot.com/products/software/standard-software/) (<https://info.mobilerobot.com/products/software/standard-software/>), runs stand-alone: an operator creates and starts tasks on the touchscreen. Fleet Manager is the step up when an application grows to several robots that need to be coordinated as one deployment rather than operated one by one.

Price

Item	2026 end-user list price
Fleet Manager software, per robot	€6,500

See [Available options](https://info.mobilerobot.com/products/chargers-and-accessories/available-options/) (<https://info.mobilerobot.com/products/chargers-and-accessories/available-options/>), for all list prices.

Setup

Fleet Management System setup is available as an add-on to the [installation and commissioning](https://info.mobilerobot.com/products/buying-and-deployment/installation-and-commissioning/) (<https://info.mobilerobot.com/products/buying-and-deployment/installation-and-commissioning/>), package, alongside [integration with other software and equipment](https://info.mobilerobot.com/documentation/technical-integration/external-system-integration/) (<https://info.mobilerobot.com/documentation/technical-integration/external-system-integration/>) and additional validated drop points.

Mixed fleets and third-party fleet layers

The J1600 also has full [VDA 5050](https://info.mobilerobot.com/products/software/vda-5050/) support under Advanced software, and The Mobile Robot Company works with established VDA 5050 fleet-management providers. That means orchestration is not locked to one product: a J1600 can operate under a compatible third-party fleet layer next to robots from other vendors.

VDA 5050

VDA 5050 is an [interoperability interface](https://info.mobilerobot.com/documentation/concepts/vda-5050-explained/) (<https://info.mobilerobot.com/documentation/concepts/vda-5050-explained/>), for multi-vendor mobile-robot fleets. It lets robots from different vendors work together in the same space under a compatible fleet-management layer, instead of each brand requiring its own isolated control system.

J1600 support

The [J1600](https://info.mobilerobot.com/products/j1600/overview/) (<https://info.mobilerobot.com/products/j1600/overview/>) has full VDA 5050 support. The interface is part of the [Advanced software](https://info.mobilerobot.com/products/software/advanced-software/) (<https://info.mobilerobot.com/products/software/advanced-software/>) package; [Standard software](https://info.mobilerobot.com/products/software/standard-software/) (<https://info.mobilerobot.com/products/software/standard-software/>) does not include it.

The Mobile Robot Company works with established VDA 5050 fleet-management providers, so the J1600 can be brought into an existing VDA 5050 fleet installation rather than requiring a dedicated one.

Why it matters

Many facilities already run, or plan to run, mobile robots from more than one vendor. With VDA 5050:

- the J1600 can coexist with other vendors' robots under one fleet layer;
- traffic and task coordination happen in the fleet manager, not in per-brand silos;
- adding the J1600 to an automated site does not force a rip-and-replace of the existing fleet software.

Getting started

[VDA 5050 operation](https://info.mobilerobot.com/documentation/technical-integration/vda-5050-documentation/) (<https://info.mobilerobot.com/documentation/technical-integration/vda-5050-documentation/>), requires the Advanced software upgrade, which is easiest to install at the factory when the robot is ordered — a partner can add it later, but customers cannot install it themselves. Integration setup can be included as an add-on to [installation and commissioning](https://info.mobilerobot.com/products/buying-and-deployment) (<https://info.mobilerobot.com/products/buying-and-deployment>)

[t/installation-and-commissioning/](#)). For terminology, see the [glossary](https://info.mobilerobot.com/documentation/concepts/glossary/) (<https://info.mobilerobot.com/documentation/concepts/glossary/>).

REST API and Integrations

The J1600 treats [systems integration as optional](https://info.mobilerobot.com/applications/results/lower-integration-complexity/), not mandatory. Basic operation with [Standard software](https://info.mobilerobot.com/products/software/standard-software/) requires no warehouse-management system (WMS), no fleet manager, and no IT integration — [Wi-Fi itself is optional](https://info.mobilerobot.com/documentation/installation/network-and-wi-fi-requirements/). When an application does call for integration, the [Advanced software](https://info.mobilerobot.com/products/software/advanced-software/) package provides the interfaces.

Integration is optional by design

Full automation projects often require WMS and fleet integration, expert configuration, and tightly controlled processes before the first pallet moves. The J1600's approach is the reverse: it works out of the box with [teach-and-repeat](https://info.mobilerobot.com/documentation/concepts/teach-and-repeat/) tasks, and integration is added only when the application grows. This keeps entry cost and [deployment time](https://info.mobilerobot.com/applications/results/faster-deployment/) low for a first robot. See [Human-in-the-loop automation](https://info.mobilerobot.com/documentation/concepts/human-in-the-loop-automation/) for the philosophy behind this design.

What Advanced software provides

- **REST API** (<https://info.mobilerobot.com/documentation/technical-integration/rest-api-documentation/>) — a software interface for integrating the J1600 with other software and equipment.
- **Advanced system integration** — [connecting the robot to other software and equipment](https://info.mobilerobot.com/documentation/technical-integration/external-system-integration/) in the facility.
- **Advanced mission planning** — task behavior beyond the standard patterns.
- **VDA 5050** (<https://info.mobilerobot.com/products/software/vda-5050/>) — the multi-vendor fleet interoperability interface.
- **Fleet Manager** (<https://info.mobilerobot.com/products/software/fleet-manager/>) — orchestration software priced per robot.

Setting up an integration

Integration with other software and equipment is available as an add-on to the [installation and commissioning](https://info.mobilerobot.com/products/buying-and-deployment/installation-and-commissioning/) (<https://info.mobilerobot.com/products/buying-and-deployment/installation-and-commissioning/>), package, together with Fleet Management System setup and additional validated drop points. The Advanced software upgrade itself is easiest to install at the factory when the robot is ordered; a partner can install it later, but customers cannot.

Related connectivity facts

- Wi-Fi is optional for the basic out-of-box workflow and can be connected during installation Day 1 if desired.
- An advanced automation function, [come-to-me](https://info.mobilerobot.com/applications/scenarios/come-to-me/) (<https://info.mobilerobot.com/applications/scenarios/come-to-me/>), lets an operator call the robot to a location using a mobile app or web interface.

Software Comparison

One J1600 hardware platform supports two software versions. This page compares them and shows the broader capability ladder from manual operation to advanced automation.

Standard versus Advanced

	<u>Standard software (https://info.mobilerobot.com/products/software/standard-software/)</u>	<u>Advanced software (https://info.mobilerobot.com/products/software/advanced-software/)</u>
Design goal	Essential functions, maximum ease of use	Fleet operation and system integration
Task creation	Configuration-free Teach and Repeat	Teach and Repeat plus advanced mission planning
Touchscreen task launch and saved locations	Yes (no limit on saved locations)	Yes
Wi-Fi requirement	Optional for basic out-of-box workflow	Optional for basic use; connectivity as integrations require
VDA 5050 interoperability	No	Yes — full support
REST API	No	Yes
Fleet Manager	No	Available, priced per robot
Advanced system integration	No	Yes
Intended deployment	Single unit, no systems integration	Fleets, mixed-vendor sites, integrated processes

Capability ladder

The vehicle's functions build up in three levels. This ladder describes automation capabilities and is separate from the Standard/Advanced package split.

Level	Capabilities
Manual functions	Pallet pick and drop up to 1.6 m; full manual tiller control
Basic automation	Start automatic tasks on-screen; save locations; floor-level pallet drop; self-drive to saved locations; return-to-me; go-to-parking
Advanced automation	Come-to-me; automatic charging; VDA 5050 fleet manager; API integrations

See [Dual Mode](https://info.mobilerobot.com/products/j1600/dual-mode/) (https://info.mobilerobot.com/products/j1600/dual-mode/) for how manual and autonomous operation combine in one vehicle, and the [Automatic Charger](https://info.mobilerobot.com/products/chargers-and-accessories/automatic-charger/) (https://info.mobilerobot.com/products/chargers-and-accessories/automatic-charger/) page for opportunity charging.

2026 list prices

Software item	End-user list price
Upgrade to Advanced software	€14,500
Fleet Manager software, per robot	€6,500

UPGRADE PATH

The Advanced upgrade is easiest to install at the factory when the robot is ordered. A partner can perform it later on an existing robot; customers cannot install it themselves.

Choosing

- **One robot, repetitive transport, fast start:** Standard software covers the full [teach-and-repeat](https://info.mobilerobot.com/documentation/concepts/teach-and-repeat/) workflow with about 30 minutes of [operator training](https://info.mobilerobot.com/documentation/getting-started/operator-training/).
- **Several robots, mixed-vendor fleet, or system integration:** order the Advanced upgrade, and add [Fleet Manager](https://info.mobilerobot.com/products/software/fleet-manager/) or a compatible [VDA 5050](https://info.mobilerobot.com/products/software/vda-5050/) fleet layer as the deployment requires.

For common capability questions, see the [product FAQ](https://info.mobilerobot.com/support/faq/product-and-capabilities/).