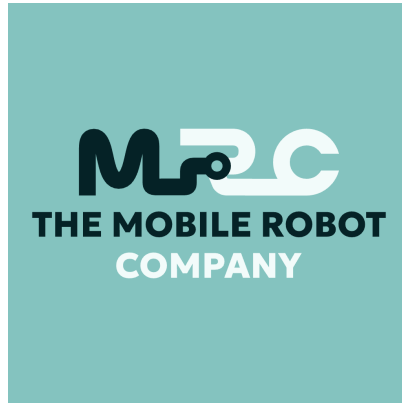




The Mobile Robot Company

Knowledge Center — Chargers and Accessories · 2026-08-04

<https://info.mobilerobot.com/category/chargers-and-accessories>

Chargers and Accessories

Charging options and add-ons for the J1600, with 2026 list prices and compatibility details for chargers, pallets, and load carriers.



Manual Charger

The J1600 manual charger works like a conventional pallet-jack charger — plug in during breaks or idle time. 2026 list price €3,600, charging about 47 percentage points per hour.



Automatic Charger

The optional automatic charger lets the J1600 dock and opportunity-charge on its own — the robot positions itself at the station and a charging interface extends to its charging plates...



Available Options

Complete catalog of J1600 options with 2026 end-user list prices — chargers, software upgrades, Fleet Manager, installation, support plans, trials, and typical configuration totals.



Compatibility

What the J1600 can charge with and what it can carry — charger compatibility plus the pallet and load-carrier envelope, including EPAL and GMA pallet support and size limits.

Manual Charger

The manual charger is the simplest way to charge the [J1600](https://info.mobilerobot.com/products/j1600/overview/) (<https://info.mobilerobot.com/products/j1600/overview/>). It works the way electric-pallet-jack users already expect: plug the charger in during a break or whenever the machine is idle.

How it works

Charging is a plug-in operation performed by the operator — for example before lunch or at the end of a shift. No docking station, floor marking, or software function is involved.

Battery and charging figures

Parameter	Value
Battery	24 V, 200 Ah lithium iron phosphate (LiFePO4)
Charging rate	approximately 47 percentage points per hour
Drain while driving fully loaded	approximately 13% per hour
Drain while driving without load	approximately 12% per hour
Standby drain	approximately 2% per hour

[Runtime](https://info.mobilerobot.com/documentation/technical-reference/battery-specifications/) (<https://info.mobilerobot.com/documentation/technical-reference/battery-specifications/>) exceeds eight hours in a typical duty cycle, so a single-shift operation can usually charge outside working hours or during natural breaks.

Price

Item	2026 end-user list price
Manual charger	€3,600

Chargers are priced separately from the 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 and [Compatibility](https://info.mobilerobot.com/products/chargers-and-accessories/compatibility/) (<https://info.mobilerobot.com/products/chargers-and-accessories/compatibility/>) for charger and load-carrier compatibility.

When to choose manual charging

Manual charging suits single-robot, single-shift deployments where the robot has predictable idle time. Operations that want the robot to top up on its own between tasks should consider the [automatic charger](https://info.mobilerobot.com/products/chargers-and-accessories/automatic-charger/) (<https://info.mobilerobot.com/products/chargers-and-accessories/automatic-charger/>), which enables opportunity charging without operator involvement.

Automatic Charger

The automatic charger is an optional charging station that the [J1600](https://info.mobilerobot.com/products/j1600/overview/) docks with on its own. It removes charging from the operator's task list and enables [opportunity charging](https://info.mobilerobot.com/applications/scenarios/automatic-charging/) whenever the robot is not busy.

How it works

1. The robot drives to the charging station.
2. It positions itself at the charger.
3. A charging interface extends from the station to the charging plates on the vehicle.

Every J1600 carries an automatic-charging interface as part of its hardware. Automatic charging is an advanced automation capability, alongside [come-to-me](https://info.mobilerobot.com/applications/scenarios/come-to-me/), [VDA 5050](https://info.mobilerobot.com/documentation/concepts/vda-5050-explained/), fleet management, and [API integrations](https://info.mobilerobot.com/documentation/technical-integration/rest-api-documentation/).

Opportunity charging

Because docking needs no person, the robot can top up between tasks instead of waiting for a scheduled plug-in. Combined with a charging rate of approximately 47 percentage points per hour on the [24 V, 200 Ah LiFePO4 battery](https://info.mobilerobot.com/documentation/technical-reference/battery-specifications/), this keeps the vehicle available through the working day. Typical-duty-cycle runtime exceeds eight hours.

Setup

When the automatic charger is purchased, its setup is part of Day 1 of the [installation and commissioning](https://info.mobilerobot.com/products/buying-and-deployment/installation-and-commissioning/) package, together with unboxing, optional Wi-Fi connection, drop-point creation, and task and safety validation.

Safety

The [charging-current relay](https://info.mobilerobot.com/safety-compliance/safety-functions/charging-safety/) (<https://info.mobilerobot.com/safety-compliance/safety-functions/charging-safety/>) is a defined safety function with [Performance Level PL b](https://info.mobilerobot.com/safety-compliance/safety-functions/performance-levels/) (<https://info.mobilerobot.com/safety-compliance/safety-functions/performance-levels/>). For the vehicle's complete safety design, see [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/>).

Price

Item	2026 end-user list price
Automatic charger	€8,400

The [manual charger](https://info.mobilerobot.com/products/chargers-and-accessories/manual-charger/) (<https://info.mobilerobot.com/products/chargers-and-accessories/manual-charger/>) is the lower-cost alternative at €3,600. 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.

Available Options

This page lists everything that can be ordered around a [J1600](https://info.mobilerobot.com/products/j1600/overview/) (<https://info.mobilerobot.com/products/j1600/overview/>), with 2026 end-user list prices in euros.

LIST PRICES

These are public end-user list prices for 2026 and may change. Orders and quotes are handled through the [local partner network](https://info.mobilerobot.com/products/buying-and-deployment/find-a-local-partner/) (<https://info.mobilerobot.com/products/buying-and-deployment/find-a-local-partner/>) — see [Request a quote](https://info.mobilerobot.com/products/buying-and-deployment/request-a-quote/) (<https://info.mobilerobot.com/products/buying-and-deployment/request-a-quote/>).

Price list

Item	End-user list price
J1600 self-driving pallet jack	€65,000
Manual charger (https://info.mobilerobot.com/products/chargers-and-accessories/manual-charger/).	€3,600
Automatic charger (https://info.mobilerobot.com/products/chargers-and-accessories/automatic-charger/).	€8,400
Advanced software upgrade (https://info.mobilerobot.com/products/software/advanced-software/).	€14,500
Fleet Manager, per robot (https://info.mobilerobot.com/products/software/fleet-manager/).	€6,500
Installation and commissioning (https://info.mobilerobot.com/products/buying-and-deployment/installation-and-commissioning/).	€10,000
Basic Care support plan, per robot per year	€4,900
Full Care support plan, per robot per year	€13,000
On-site support, per day plus travel	€2,400
Two-week trial (https://info.mobilerobot.com/products/buying-and-deployment/two-week-trial/), including setup and support	€4,000

Typical configurations

Configuration	List total
J1600 + manual charger + installation and commissioning	€78,600
J1600 + automatic charger + installation and commissioning	€83,400

A typical customer configuration is expected to cost around or below €80,000, which corresponds to the manual-charger configuration. Chargers are priced separately from the robot.

Support plans

Three after-sales plans exist: a Free plan (pay-as-you-go service and parts at list price, first-year warranty, first-year software upgrades, online self-help portal), Basic Care, and Full Care. Customers choose a plan at purchase; an ongoing agreement is optional. Details are covered under [Support](https://info.mobilerobot.com/category/support/) (<https://info.mobilerobot.com/category/support/>).

Software choices

The robot ships with [Standard software](https://info.mobilerobot.com/products/software/standard-software/) (<https://info.mobilerobot.com/products/software/standard-software/>); the [Advanced upgrade](https://info.mobilerobot.com/products/software/advanced-software/) (<https://info.mobilerobot.com/products/software/advanced-software/>) adds [VDA 5050](https://info.mobilerobot.com/documentation/concepts/vda-5050-explained/) (<https://info.mobilerobot.com/documentation/concepts/vda-5050-explained/>), 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 availability, and advanced mission planning. The upgrade is easiest to install at the factory when the robot is ordered. See the [software comparison](https://info.mobilerobot.com/products/software/software-comparison/) (<https://info.mobilerobot.com/products/software/software-comparison/>).

Compatibility

This page covers what works with the [J1600](https://info.mobilerobot.com/products/j1600/overview/) (<https://info.mobilerobot.com/products/j1600/overview/>): the two charger options and the [pallets and load carriers the vehicle can handle](https://info.mobilerobot.com/products/j1600/pallet-and-load-compatibility/) (<https://info.mobilerobot.com/products/j1600/pallet-and-load-compatibility/>).

Charger compatibility

Both chargers work with the J1600's [24 V, 200 Ah lithium-iron-phosphate \(LiFePO4\) battery](https://info.mobilerobot.com/documentation/technical-reference/battery-specifications/) (<https://info.mobilerobot.com/documentation/technical-reference/battery-specifications/>):

- The [manual charger](https://info.mobilerobot.com/products/chargers-and-accessories/manual-charger/) (<https://info.mobilerobot.com/products/chargers-and-accessories/manual-charger/>) (€3,600 list) is plugged in by the operator.
- The [automatic charger](https://info.mobilerobot.com/products/chargers-and-accessories/automatic-charger/) (<https://info.mobilerobot.com/products/chargers-and-accessories/automatic-charger/>) (€8,400 list) docks with the automatic-charging interface and charging plates that are part of every J1600.

Charging adds approximately 47 percentage points of charge per hour with either option.

Pallet and load-carrier compatibility

The J1600 requires an **open-base carrier with no bottom deck board** so its forks can enter.

Parameter	Limit or support
Maximum pallet/load length, including overhang	1,250 mm / 49 in
Maximum pallet/load width, including overhang	1,250 mm / 49 in
Maximum load height from floor	1,700 mm / 67 in
Maximum rated payload	1,600 kg / about 3,500 lb
EPAL support	EPAL Euro Pallet, EPAL 3, EPAL 6
GMA support	All GMA pallets with an open base
Custom carriers	Any forkable open-base carrier within the size limits

Supported carriers go beyond Euro pallets: [open cages, barrels, sensitive loads, and other custom open-base carriers](https://info.mobilerobot.com/applications/use-cases/open-cages-and-alternative-load-carriers/) (<https://info.mobilerobot.com/applications/use-cases/open-cages-and-alternative-load-carriers/>) all qualify when they fit the envelope. Compatibility in practice depends on base geometry, size, load stability, and operator judgment — there is no blanket approval covering every carrier or hazardous material.

MANUAL JUDGMENT FOR DIFFICULT LOADS

Dual mode (<https://info.mobilerobot.com/products/j1600/dual-mode/>) lets the operator handle [sensitive or unstable loads](https://info.mobilerobot.com/applications/use-cases/sensitive-or-unstable-loads/) (<https://info.mobilerobot.com/applications/use-cases/sensitive-or-unstable-loads/>) — such as barrels or poorly stacked pallets — manually during pickup and close maneuvering, then hand the long transport leg to autonomous mode.

Fork and vehicle geometry

Fork length is 1,150 mm, fork width 180 mm, fork outer distance 680 mm, and fork inner distance 320 mm. The full dimension set is on the [technical specifications](https://info.mobilerobot.com/products/j1600/technical-specifications/) (<https://info.mobilerobot.com/products/j1600/technical-specifications/>), page.

Operating limits

Autonomous operation is indoor and level-floor (0% automatic gradeability), with an operating temperature of 5–40°C and IP21 ingress protection. See [technical specifications](https://info.mobilerobot.com/products/j1600/technical-specifications/) (<https://info.mobilerobot.com/products/j1600/technical-specifications/>) for the complete environment requirements.