



The Mobile Robot Company

Knowledge Center — Compatibility · 2026-08-04

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

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.