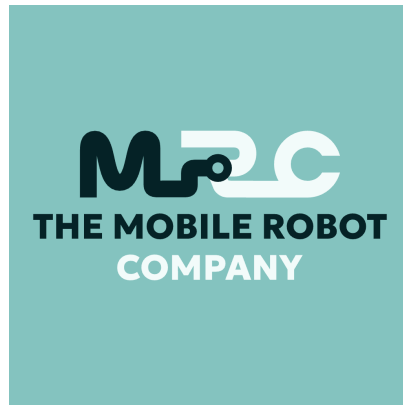




The Mobile Robot Company

Knowledge Center — Supported Pallets and Loads · 2026-08-04

<https://info.mobilerobot.com/documentation/user-guides/supported-pallets-and-loads>

Supported Pallets and Loads

The J1600 handles any forkable carrier with an **open base and no bottom deck board**, within its size and weight envelope. This page defines that envelope and the fork geometry a carrier must accommodate.

Load envelope

Parameter	Limit
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 payload	1,600 kg / about 3,500 lb

The exact envelope is 1,250 mm; some summaries round it to 1.2 m, but 1,250 mm is the figure to plan with.

Supported carrier types

Category	Support
EPAL	EPAL Euro Pallet, EPAL 3, EPAL 6
GMA	All GMA (Grocery Manufacturers Association) pallets with an open base
Custom carriers	Any forkable open-base carrier within the size limits

Examples beyond standard pallets include [open cages, barrels](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/>), and carriers for sensitive loads. The working rule from the product team: everything that is open underneath can be picked up, within the envelope.

Fork geometry

Carriers must accept the J1600's forks:

Parameter	Value
Fork length	1,150 mm / 45 in
Fork width	180 mm / 7 in
Fork thickness	60 mm / 2.4 in
Fork outer distance	680 mm / 27 in
Fork inner distance	320 mm / 13 in
Fork height, lowest	90 mm / 3.5 in
Fork height, highest	1,600 mm / 63 in

Judgment still applies

Compatibility depends on base geometry, size, stability, and operator judgment. No [blanket approval](https://info.mobilerobot.com/safety-compliance/safe-deployment/approved-loads-and-pallets/) (<https://info.mobilerobot.com/safety-compliance/safe-deployment/approved-loads-and-pallets/>) exists for every carrier or for hazardous materials. [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/>) — top-heavy stacks, leaning pallets, barrels — should be picked and closely maneuvered manually, with autonomous mode reserved for the transport leg. See [Manual Operation](https://info.mobilerobot.com/documentation/user-guides/manual-operation/) (<https://info.mobilerobot.com/documentation/user-guides/manual-operation/>) and the [Operator Manual](https://info.mobilerobot.com/documentation/user-guides/operator-manual/) (<https://info.mobilerobot.com/documentation/user-guides/operator-manual/>).

Handling heights

- Manual pick and drop: up to 1,600 mm (63 in).
- Autonomous delivery: floor level only.

ⓘ PRELIMINARY SPECIFICATIONS

These January 2026 figures are preliminary and subject to change. See the [technical specifications](https://info.mobilerobot.com/products/j1600/technical-specifications/) (<https://info.mobilerobot.com/products/j1600/technical-specifications/>).