



The Mobile Robot Company

Knowledge Center — Customer Applications · 2026-08-04

<https://info.mobilerobot.com/newsroom/stories/customer-applications>

Customer Applications

The [J1600](https://info.mobilerobot.com/products/j1600/overview/) is designed for indoor, floor-to-floor pallet transport. This page collects the application patterns customers and prospects work with, and the demonstrations that show them in practice. The full application catalog is under [Applications](https://info.mobilerobot.com/category/applications/).

Where the J1600 is applied

- **[Inbound receiving](https://info.mobilerobot.com/applications/use-cases/inbound-receiving/)**: unload a truck manually, then send the pallet to inspection or storage autonomously.
- **[Production supply](https://info.mobilerobot.com/applications/use-cases/production-supply/)**: an operator prepares a pallet; the J1600 delivers materials to the production line on demand.
- **[Cross-docking](https://info.mobilerobot.com/applications/use-cases/cross-docking/)**: shuffle pallets across multiple origins and destinations without a bespoke task for every pair.
- **[Temporary storage](https://info.mobilerobot.com/applications/use-cases/temporary-storage/)**: create short-lived storage points when demand changes — a new location takes minutes to add.
- **[Buffer and staging management](https://info.mobilerobot.com/applications/use-cases/buffer-and-staging-management/)**: transport between lines, staging areas, and storage zones.
- **[Local work-cell automation](https://info.mobilerobot.com/applications/use-cases/local-work-cell-automation/)**: serve stand-alone flows inside a larger facility where a full fleet project would be excessive.
- **[Brownfield operations](https://info.mobilerobot.com/applications/use-cases/brownfield-automation/)**: work around changing layouts and obstacles without permanent infrastructure.

Loads beyond the Euro pallet

Customers move [open cages, barrels, and other open-base carriers](https://info.mobilerobot.com/applications/use-cases/open-cages-and-alternative-load-carriers/) within the [supported envelope](https://info.mobilerobot.com/products/j1600/pallet-and-load-compatibility/) of 1,250 x 1,250 mm and up to 1,700 mm load height — "everything that's open we can pick up", as the company's [flexibility video](https://info.mobilerobot.com/newsroom/videos/customer-and-partner-videos/) puts it. For [sensitive or unstable loads](https://info.mobilerobot.com/applications/use-cases/sensitive-or-unstable-loads/), the operator uses manual judgment for pickup and close maneuvering, then hands the long transport route to autonomy.

Who the typical customer is

Target environments include [manufacturing](https://info.mobilerobot.com/applications/industries/manufacturing/), [warehousing](https://info.mobilerobot.com/applications/industries/warehousing/), third-party logistics, [e-commerce fulfillment](https://info.mobilerobot.com/applications/industries/e-commerce-and-fulfillment/), and [grocery and FMCG distribution](https://info.mobilerobot.com/applications/industries/grocery-and-fmcg/). The [primary focus](https://info.mobilerobot.com/company/about/markets-we-serve/) is small and medium businesses running a single shift with one to five pallet-jack operators, plus larger sites with many small local material flows. The economics are intended to work at eight hours per day, five days per week — no 24/7 operation required.

Seeing it work before buying

Three evaluation routes are available: a 30–60 minute hands-on [demonstration](https://info.mobilerobot.com/products/buying-and-deployment/request-a-demonstration/) at a partner experience center or customer site; a [two-week paid trial](https://info.mobilerobot.com/products/buying-and-deployment/two-week-trial/) (€4,000 list, including setup and support, with free return at any time); and a [proof of concept](https://info.mobilerobot.com/applications/planning/proof-of-concept-planning/), either in the [Copenhagen demo area](https://info.mobilerobot.com/company/locations/test-and-demonstration-facility/) or with machines brought to the customer's plant.

The strongest evidence of ease of adoption is the [first-time-user demonstration at TEST CAMP](https://info.mobilerobot.com/newsroom/events/test-camp/): a logistics professional who had never used the J1600 saved a location, created a drop-and-return task, and sent the robot on its way within minutes. The recording is on [Product Demonstrations](https://info.mobilerobot.com/newsroom/videos/product-demonstrations/).

Application limits

Automatic driving is indoor and [level-floor](https://info.mobilerobot.com/documentation/installation/floor-requirements/) (0% automatic gradeability), automatic drop is at floor level, [operation is limited to 5–40°C](https://info.mobilerobot.com/documentation/installation/operating-environment-requirements/), and loads must have an open base. Situations that need human judgment — dock plates, damaged pallets, congestion — are covered in [human-in-the-loop automation](https://info.mobilerobot.com/documentation/concepts/human-in-the-loop-automation/).