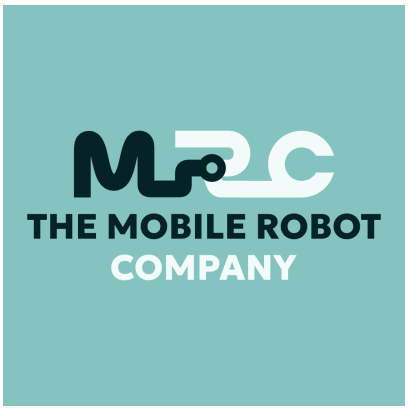


# The Mobile Robot Company

Knowledge Center — Task Management · 2026-08-04

https://info.mobilerobot.com/documentation/user-guides/task-management

# Task Management

A task defines where the J1600 delivers a pallet and what it does afterwards. Tasks are created on the touchscreen without code, and every task is initiated and confirmed by a person.

## Named task patterns

- **Boomerang (https://info.mobilerobot.com/applications/scenarios/deliver-and-return/):** deliver to a destination and return to the origin or operator.
- **Simple ABC (https://info.mobilerobot.com/applications/scenarios/a-to-b-to-c-transport/):** deliver from A to B, then travel to C.
- **Drop and wait (https://info.mobilerobot.com/applications/scenarios/deliver-and-wait/):** deliver, drop, and remain at the destination.
- **Deliver and park (https://info.mobilerobot.com/applications/scenarios/deliver-and-park/):** complete the drop and proceed to a defined parking location.
- **Come to me (https://info.mobilerobot.com/applications/scenarios/come-to-me/):** call the robot to a location using a mobile app or web interface. An advanced automation function.
- **Multi-point to multi-point (https://info.mobilerobot.com/applications/use-cases/multi-point-pallet-transport/):** combine saved points freely — useful for cross-docking and changing flows.

The most common task in practice is manual pickup, autonomous delivery (https://info.mobilerobot.com/applications/scenarios/manual-pickup-and-autonomous-delivery/), floor-level drop, and return to origin. The route can be a few meters or more than 100 meters; the concept is the same.

## Creating a task

1. Pick up a supported pallet manually.
2. Open task creation on the touchscreen.
3. Choose the task type and a saved drop destination from the map or list.
4. Choose the post-delivery behavior: return to origin/operator, go to another point or parking, or stop and wait.

5. Execute the task, confirm automatic mode (https://info.mobilerobot.com/documentation/user-guides/autonomous-operation/) with the physical start/resume button, and step away when instructed.

Destinations come from saved locations — see Location Management (https://info.mobilerobot.com/documentation/user-guides/location-management/). Because the robot plans its own routes on its 3D map, you can recombine points without demonstrating every possible A-to-B variation.

## Task constraints

- Pallet pickup is always manual.
- Automatic pallet delivery is at floor level. Handling above floor level, up to 1,600 mm, is manual (https://info.mobilerobot.com/support/troubleshooting/task-and-location-problems/).
- Autonomous mode requires level floors (https://info.mobilerobot.com/documentation/installation/floor-requirements/) (0% automatic gradeability).
- Loads must meet the open-base envelope in Supported Pallets and Loads (https://info.mobilerobot.com/documentation/user-guides/supported-pallets-and-loads/).

## Task patterns in daily flows

- **Inbound receiving (https://info.mobilerobot.com/applications/use-cases/inbound-receiving/):** unload the truck manually, then send each pallet to inspection or storage.
- **Production supply (https://info.mobilerobot.com/applications/use-cases/production-supply/):** pick a pallet of materials and deliver it to the line on demand.
- **Cross-docking (https://info.mobilerobot.com/applications/use-cases/cross-docking/):** shuffle pallets across multiple origins and destinations with multi-point tasks.
- **Buffer and staging (https://info.mobilerobot.com/applications/use-cases/buffer-and-staging-management/):** move pallets between lines, staging areas, and storage zones while operators stay on value-added work.

## Advanced task capabilities

With Advanced software (https://info.mobilerobot.com/products/software/advanced-software/), task execution can scale up to fleet orchestration through VDA 5050 (https://info.mobilerobot.com/documentation/concepts/vda-5050-explained/), a REST API (https://info.mobilerobot.co

m/documentation/technical-integration/rest-api-documentation/), Fleet Manager (https://info.mobilerobot.com/documentation/technical-integration/fleet-manager-guide/), and advanced mission planning — see the J1600 User Manual (https://info.mobilerobot.com/documentation/user-guides/j1600-user-manual/#software-versions).