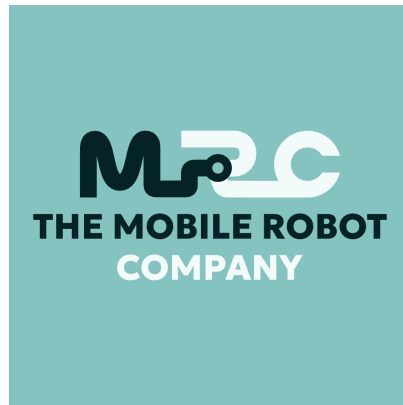




The Mobile Robot Company

Knowledge Center — Example Workflows · 2026-08-04

<https://info.mobilerobot.com/documentation/technical-integration/example-workflows>

Example Workflows

This page collects the J1600's standard task patterns and end-to-end workflows. Use it to match a material flow in your facility to a task type the robot already supports.

The standard delivery workflow

The most common task is [manual pickup, autonomous delivery](https://info.mobilerobot.com/applications/scenarios/manual-pickup-and-autonomous-delivery/) (<https://info.mobilerobot.com/applications/scenarios/manual-pickup-and-autonomous-delivery/>), floor-level drop, and [return to origin](https://info.mobilerobot.com/applications/scenarios/deliver-and-return/) (<https://info.mobilerobot.com/applications/scenarios/deliver-and-return/>):

1. Manually pick up a [supported pallet or load carrier](https://info.mobilerobot.com/products/j1600/pallet-and-load-compatibility/) (<https://info.mobilerobot.com/products/j1600/pallet-and-load-compatibility/>).
2. Open task creation on the touchscreen.
3. Choose the task type and a saved drop destination.
4. Choose what happens after delivery: return to origin, go to another point or parking, or stop and wait.
5. Execute the task.
6. The robot asks to enter automatic mode; confirm with the physical start/resume button.
7. Step away when the interface instructs you to.
8. The J1600 [travels autonomously](https://info.mobilerobot.com/documentation/user-guides/autonomous-operation/) (<https://info.mobilerobot.com/documentation/user-guides/autonomous-operation/>), avoids obstacles, drops the pallet at floor level, and performs the selected post-delivery action.

The route can be a few meters or well over 100 meters — the workflow is the same. Pallet pickup is always manual, and autonomous delivery is always at floor level.

Named task patterns

Pattern	Behavior	Software level
Boomerang	Deliver to a destination, then return to the origin/operator	Basic automation
Simple ABC	Deliver from A to B, then travel on to C	Basic automation
Drop and wait	Deliver, drop, and remain at the destination	Basic automation
Deliver and park	Complete the drop, then proceed to a defined parking location	Basic automation
Multi-point to multi-point	Combine saved points freely for cross-docking and changing flows	Basic automation
Come to me	Call the robot to a location from a mobile app or web interface	Advanced automation

Locations are created by driving to a point and tapping **Save location** — see [teach and repeat](https://info.mobilerobot.com/documentation/concepts/teach-and-repeat/) (<https://info.mobilerobot.com/documentation/concepts/teach-and-repeat/>). Saved points recombine freely: you do not teach every A-to-B variation, and there is no software limit on the number of [saved locations](https://info.mobilerobot.com/documentation/user-guides/location-management/) (<https://info.mobilerobot.com/documentation/user-guides/location-management/>).

First-time setup workflow

1. Power on the J1600 and follow the on-screen tutorial.
2. [Drive manually through the facility](https://info.mobilerobot.com/documentation/getting-started/creating-the-first-map/) (<https://info.mobilerobot.com/documentation/getting-started/creating-the-first-map/>) with the tiller. The robot continuously learns and updates its 3D map.
3. Drive to each desired autonomous [floor-drop point](https://info.mobilerobot.com/documentation/installation/mapping-and-drop-point-setup/) (<https://info.mobilerobot.com/documentation/installation/mapping-and-drop-point-setup/>).
4. Tap **Save location**, name the point, and repeat for every destination.

A worked example: drive to a bay, save it as "Pallet Bay 1", create a task with **Drop Pallet at Location**, choose [stop-and-wait](https://info.mobilerobot.com/applications/scenarios/deliver-and-wait/) (<https://info.mobilerobot.com/applications/scenarios/deliver-and-wait/>), execute, confirm automatic mode, and step back.

Charging workflows

- **Manual charging** (<https://info.mobilerobot.com/documentation/user-guides/charging/>): plug in the charger during a break or when the machine is idle, as with a conventional electric pallet jack.
- **Automatic charging** (<https://info.mobilerobot.com/applications/scenarios/automatic-charging/>) (**advanced automation**): the robot drives to the station, positions itself, and the charging interface extends to the vehicle's charging plates. This enables opportunity charging whenever the robot is not busy.

Material-flow examples

- **Inbound receiving** (<https://info.mobilerobot.com/applications/use-cases/inbound-receiving/>): unload the truck manually, then send the pallet autonomously to inspection or storage.
- **Production supply** (<https://info.mobilerobot.com/applications/use-cases/production-supply/>): an operator picks or prepares a pallet; the J1600 delivers materials to the line on demand.
- **Cross-docking** (<https://info.mobilerobot.com/applications/use-cases/cross-docking/>): shuffle pallets across multiple origins and destinations by combining saved points — no bespoke task per pair.
- **Temporary storage** (<https://info.mobilerobot.com/applications/use-cases/temporary-storage/>): create short-lived storage points in minutes when demand changes.
- **Buffer and staging management** (<https://info.mobilerobot.com/applications/use-cases/buffer-and-staging-management/>): transport between lines, staging areas, and storage zones.
- **Receiving-storage-production-shipping** (<https://info.mobilerobot.com/applications/use-cases/production-to-shipping-transport/>): automate the long travel segments that connect standard warehouse zones.

For the environments these flows suit, see the [J1600 overview](https://info.mobilerobot.com/products/j1600/overview/) (<https://info.mobilerobot.com/products/j1600/overview/>); for integrating workflows with fleet or site software, see the [integration overview](https://info.mobilerobot.com/documentation/technical-integration/integration-overview/) (<https://info.mobilerobot.com/documentation/technical-integration/integration-overview/>).