



The Mobile Robot Company

Knowledge Center — Site Risk Assessment · 2026-08-04

<https://info.mobilerobot.com/de-de/safety-compliance/safe-deployment/site-risk-assessment>

Site Risk Assessment

Before the J1600 [goes live](https://info.mobilerobot.com/de-de/documentation/installation/deployment-checklist/) at a site, the site, the selected tasks, and the loads should be assessed for risk. This page describes what that assessment involves and which factors matter for a [dual-mode](https://info.mobilerobot.com/de-de/products/j1600/dual-mode/) pallet jack.

Where risk assessment fits

Risk assessment is the method at the heart of [ISO 12100](https://info.mobilerobot.com/de-de/safety-compliance/standards/iso-12100/), which appears in the J1600's [compliance list](https://info.mobilerobot.com/de-de/safety-compliance/certificates/compliance-statements/): identify hazards, evaluate risks, and reduce them in order of priority. The vehicle's built-in safeguards handle the machine side; the site assessment handles everything the machine cannot know about your facility.

When the [installation and commissioning package](https://info.mobilerobot.com/de-de/safety-compliance/safe-deployment/commissioning-and-validation/) is purchased, its pre-installation phase covers this formally:

- a feasibility check for all selected tasks and loads;
- a risk assessment;
- a project plan.

Site factors to evaluate

The J1600's operating limits define what to check:

Factor	What to verify	Details
Floors	Level routes for autonomous travel (0% automatic gradeability), bumps up to 25 mm, gaps up to 20 mm, TR34 FM3 / FF 25 / FL 20 flatness	Floor and environment requirements (https://info.mobilerobot.com/de-de/safety-compliance/safe-deployment/floor-and-environment-requirements/)
Environment	Indoor use, 5–40°C, 20–80% relative humidity non-condensing, IP21 exposure limits	Floor and environment requirements (https://info.mobilerobot.com/de-de/safety-compliance/safe-deployment/floor-and-environment-requirements/)
Loads	Open-base carriers within 1,250 × 1,250 mm, up to 1,600 kg and 1,700 mm load height	Approved loads and pallets (https://info.mobilerobot.com/de-de/safety-compliance/safe-deployment/approved-loads-and-pallets/)
Manual-only areas	Slopes, dock plates, and ramps stay manual tasks; manual gradeability is 5% unloaded and 3% at full load	Operator responsibilities (https://info.mobilerobot.com/de-de/safety-compliance/safe-deployment/operator-responsibilities/)
Traffic	Routes shared with pedestrians and other vehicles, congestion points, and where the speed-dependent protective field needs room	How J1600 safety works (https://info.mobilerobot.com/de-de/safety-compliance/safety-overview/how-j1600-safety-works/)
Charging	Placement and setup of the manual or automatic charger	Charger safety (https://info.mobilerobot.com/de-de/safety-compliance/safe-deployment/charger-safety/)

Residual responsibility

A completed risk assessment does not remove the operator from the loop. Task initiation, pallet pickup, and judgment-heavy handling remain [human responsibilities](https://info.mobilerobot.com/de-de/safety-compliance/safety-overview/human-responsibilities/) (https://info.mobilerobot.com/de-de/safety-compliance/safety-overview/human-responsibilities/), by design, and some risks remain after safeguarding — see [Residual risks](https://info.mobilerobot.com/de-de/safety-compliance/safe-deployment/residual-risks/) (https://info.mobilerobot.com/de-de/safety-compliance/safe-deployment/residual-risks/).

i USE CURRENT PRODUCT DOCUMENTATION

No safety-distance curves, stopping distances, or validation reports are published in the Knowledge Center. Base deployment decisions on the current product documentation supplied with the vehicle.