MiR1200 Pallet Jack

AI Precision. Real-World Performance.

The MiR1200 Pallet Jack delivers high performance, fully automated pallet and rack handling by detecting, transporting, and placing loads up to 1200 kg at speeds of 1.5 m/s with consistent precision.

Its machine learning driven perception system reduces pick and place cycle times, enabling higher throughput in high volume material flows.

Designed for continuous operation, the platform combines long life batteries with opportunity charging to support true 24/7 utilization and eliminate manual transport and ergonomic risks. Its compact footprint and advanced navigation algorithms ensure reliable maneuvering in constrained aisles and dynamic environments without requiring infrastructure changes.

Built to integrate seamlessly across multiple value streams, the MiR1200 Pallet Jack meets the latest safety standards and maintains safe, predictable performance around people and obstacles. With intuitive onboard software and full MiR Fleet compatibility, engineers can deploy, scale, and optimize the system quickly, achieving measurable gains in consistency, uptime, and logistics efficiency.

Benefits

Maximized Efficiency
Precise, automated handling of 1200kg loads.

Empowered Teams
Removes manual transport for higher value work.
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Faster Throughput
ML perception accelerates accurate pallet detection

Enhanced Safety
Replaces forklifts with certified, safe autonomous operation.

Workflow Automation
Centralized AMR control through MiR Fleet.

24/7 Productivity
Continuous uptime via high-capacity opportunity charging.

Unique Features

AI-based obstacle detection: enhances safety and uptime by detecting true obstacles down to the floor level, without the hassles of the floor itself, causing false positive stoppages.

ML-based perception: enables shrink-wrapped pallet recognition and rapid, precise, and reliable pallet detection

Build for challenging environments: with IP52 rating and reliable industrial design, created through collaboration with a manual pallet jack OEM company leveraging +80 years of lift-product expertise

Features high battery capacity and fast charging: ensuring seamless operation in 24/7 workflows

Equipped with MiR's MFE software: seamlessly integrates with MFE alongside other MiR robots

Incorporates load-jam detection: which enables the robot to safely interact with compromised pallets.

Comprehensive 360-degree: safety scanner coverage

Payload	1200 kg
Max. Speed Dimensions	1.5 m/sec
Max. Pick/Place Height	W=820cm L=1934cm H=2120cm
Max. Lift Height:	1120cm
Charging Ratio	1:14

AI-driven pallet perception enables the MiR1200 to reliably recognize and locate pallets, even when they have shifted from their expected position.