PRESS RELEASE

Pixel PT: AI-Powered Pallet Transporter with Advanced AI Features
Developed for Logistics: Flexible & Fast Implemented

Munich, 15.01.2026 – [Pixel Robotics GmbH](#) will present intelligent transport robotics for intralogistics at LogiMAT 2026 from March 24 to 26, 2026 in Hall 4, Booth F05. The focus is on the Pixel PT, an AI-powered pallet transporter that combines state-of-the-art technology with application-driven AI to make material flows more efficient, safer and more flexible.

Once again this year, the Pixel PT introduces new features that deliver real operational value:

Load measurement
The Pixel PT can detect the height of a picked-up pallet and use this data for volume optimization in outbound logistics. The measured values can also be considered in tour planning: large pallets can be sent directly to the dock, while smaller pallets can first be routed to a consolidation stage.

Addition of an MCP server (Model Context Protocol)
This allows integration with leading LLMs (Large Language Models) such as Claude, ChatGPT or Gemini. This enables users, for example, to perform evaluations and analyses in natural language.

Operation in tight spaces
The Pixel PT's ability to operate in tight spaces has been further improved. The Pixel PT can now, with its cantilever fork, also swing over or under conveyor technology, significantly reducing the required space.

In addition to this innovation, the Pixel PT continues to stand out with its proven, practical features:

KEY FEATURES OF THE PIXEL PT AT A GLANCE:

Driving with hanging foil: The Pixel PT's AI-based object detection recognizes the hanging foil as foil (even within the safety field) — and not as a safety-relevant object (such as a person's foot) — and continues its movement without compromising safety or efficiency.

Intelligent Fork Detection: Thanks to camera-based AI, the robot reliably detects forklift forks and adapts to rough floor.

Flexible Pallet Handling: Pallets can be picked up regardless of their position or slight deviations.

Secure Handling of Wrapped Pallets: The AI differentiates between foil and solid obstacles, ensuring smooth pallet handling, even for pallets wrapped to the ground.

Rule-Based Placement: Pallets are placed pragmatically and adaptively, just like a forklift operator would do.

Obstacle Avoidance: The Pixel PT identifies people, vehicles, and both moving and stationary obstacles, responding with remarkable flexibility.

Using a digital twin of the operational area, Pixel Robotics enables seamless collaboration between humans and machines – without the need for adjustments to existing processes and without the need for WMS integration.

Experience how intelligent AI features bring more flexibility and efficiency to intralogistics at LogiMAT 2026, Hall 4, Booth F05, and meet our experts on site.

Further information:

Image: Pixel PT AI transport robot: load measurement during transport (Source: Pixel Robotics)

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(A copy or link is requested upon publication)

About Pixel Robotics:

Pixel Robotics uses an optical AI perception system to transform the real-world intralogistics environment into a real-time digital twin. This patented system tracks and digitizes the movements of industrial trucks, goods, and personnel. In combination with our lean and modular Autonomous Mobile Robot (AMR), the Pixel PT, pallet transportation in dynamic environments can be automated flexibly and cost-effectively. Real-time data from the digital twin allows driving tasks to be automatically generated and continuously adapted to current traffic conditions. Additionally, camera-based features such as intelligent fork detection and the handling of misaligned or foil-wrapped pallets ensure seamless mixed operations alongside human colleagues.

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