

## Ingenious robots facilitate transport

Berlin, September 4th, 2017 - The Berlin-based robotics company pi4\_robotics GmbH has added mobile robots from the Scandinavian manufacturer MiR to its sales portfolio for the first time. These self-driven platforms offer an automated solution for so far laborious transport of machines and are immediately ready for use in any environment.

Having specialized in humanoid robotic systems for many years, pi4\_robotics GmbH has now expanded its product range. It has done this with pi4\_components having now taking over, with immediate effect, distribution of self-driven transport platforms from the Scandinavian manufacturer MiR - Mobile Industrial Robots. "Our customers have always been looking for simple and inexpensive solutions for transport between machines. MiR offers a simple and inexpensive solution that itself takes over these tasks. Adherence by the MiR robots to our high safety standards was important for us", explains Matthias Krinke, Managing Director of pi4\_robotics GmbH. MiR has become one of the top producers of AMR's (Autonomous Mobile Robots). Its

collaborative robots can be used in the field of intra-logistics, working in direct cooperation with humans and can be programmed without any previous knowledge.

*„...safely and efficiently manoeuvring machines with weight up to 500 kg...“*

Operation of the MiR robots, which have been certified according to EN1525, takes place either via a dedicated intuitive graphical user interface, or equally well on a tablet computer, smartphone or PC.



- Eliminates material flow bottlenecks to increase productivity
- Safely and efficiently maneuvers around people and obstacles
- Allows employees to focus on high-value activities, not deliveries
- Requires no changes to existing facility
- Offers fast return on investment in as little as one year
- Is easily programmed, with no prior experience needed
- Can be redeployed for different tasks with various top modules



The robotic platforms automatically take over transport requirements as they arise, safely and efficiently manoeuvring goods with weight up to 500 kg around obstacles and humans. Aside from eliminating laborious delivery tasks normally undertaken by employees, there is possibly also no need reconstruct existing facilities to allow for robotic platform use. Various add-on modules also enable the robots to be used for several tasks simultaneously and allow the robots to develop into highly flexible employees. A MiRHook™ features enables secure coupling and pulling of a number of

transport vehicles. There are in addition shelf or drawer attachments available to exactly fit requirements for any application. Lightweight robots can also be mounted on the MiR robots.

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~Matthias Krinke

(Managing Director of pi4\_robotics GmbH)

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## A solution that pays off quickly

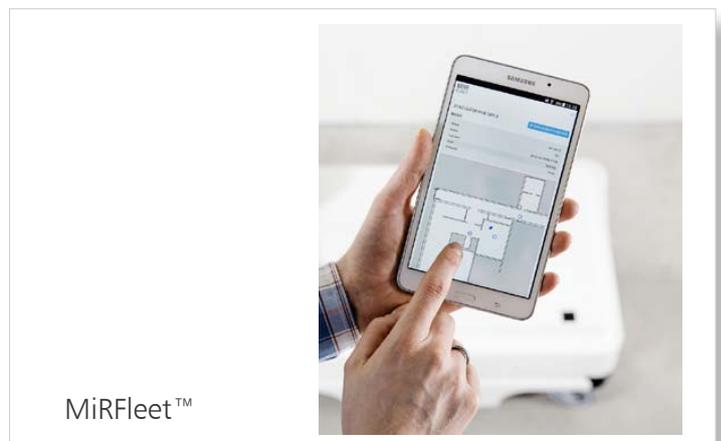
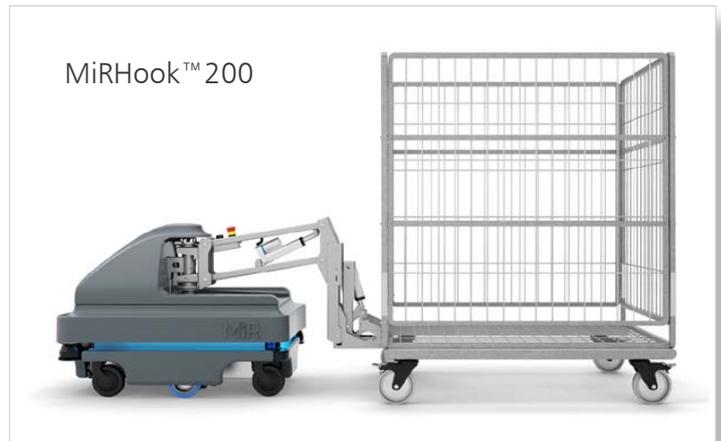
Aside from freeing up staff resources, the control software for the robotic platforms ensures optimum utilization and prevents the MiR robots from possibly making empty runs. Material flow bottlenecks are also avoided. In order to prevent the MiR robots from running out of power, the control software also monitors their rechargeable batteries to ensure that they are recharged in good time:

“The increase in efficiency results in a very short payback period, which can sometimes be achieved in less than one year”, Krinke says.

Even an entire fleet of up to 100 MiR robots can be programmed and coordinated with the centralized MiRFleet™ control system. The robots work together in a team, irrespective of the accessories with which they are equipped. The system itself simply decides on its own which robot is best suited for the required task.

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With headquarters in Berlin, the company **pi4\_robotics GmbH** is one of the leading producers of image processing systems, automatic inspection equipment and robots. pi4 system solutions are presently used mainly in industries such as photovoltaics, plastics, automotive, glass, medical & pharmaceuticals, and also in the area of ceramics. pi4\_robotics is the leader in the photovoltaic industry with its quality inspection systems based on electroluminescent technology. pi4\_robotics GmbH has become also known through the workerbot™, first introduced in 2010. The workerbot™ is the worldwide first humanoid factory



worker in use and is offered by pi4 in its web shop. Matthias Krinke founded the company pi4\_robotics GmbH in 1994. Its headquarters and production facilities are located in Berlin.

pi4\_robotics GmbH is the only robot producer in Germany which is in 100% German ownership. The company currently employs staff of around 50 employees and five robots. The company has been represented worldwide since 2003 by a network of sales and service partners

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