

Press information

The next level of warehouse automation - more efficient order picking with artificial intelligence

Due to the strong growth of e-commerce and ever increasing just-in-time requirements, companies are facing new challenges in intralogistics. While material flow and production logistics have been increasingly automated over the past few years, manual "reaching into the box" still predominates in order picking. Together with its partner robominds, HÖRMANN Logistik offers an ingenious, productive, and AI-supported pick-by-robot solution for optimizing picking stations with high throughput, a large variety of articles and 24/7 operation.

Picking with artificial intelligence - what is that?

Seeing, feeling, processing and learning. These are the essential components of artificial intelligence. robominds has created the robobrain® solution, a modular platform for process intelligence that operates based on true artificial intelligence. Modern hardware components and smart software modules form a unique system that enables customized pick-by-robot picking.

Hardware heart is the flexible cobot arm. With mechanical power, speed, easy programming, ergonomic design and integrated sensor, the cobot handles all picking tasks. Different gripping tools (parallel pick) or a vacuum picker guarantee the most versatile application possibilities. The robobrain eye takes care of visual detection: The award-winning robobrain.vision solution enables the cobot with the industrialized 3D camera to coordinate hand-eye without prior teach-in - the smart picking system of the future.

AutoStore® and robo-Pick - two innovative systems for maximum efficiency

HÖRMANN Logistik has already implemented around 40 AutoStore® systems in Germany and Austria. AutoStore® is a modern and innovative system for the automatic storage and picking of small parts in plastic containers (bins). The compact storage solution, which dispenses with aisles and shelving, reduces space requirements by around 75%. The bins are placed on top of each other in stacks on the floor. A rail system (grid) is mounted above the bins stacks, on which high-speed robots travel. They tirelessly pick up containers, re-sort them and deliver them to the directly coupled ports for goods receiving and picking.

At these picking stations, robo-Pick now creates significant advantages with artificial intelligence:

- 24/7 operation
- Low operating costs
- High productivity
- Error-free picking
- Uncomplicated commissioning and integration into existing picking stations

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The overall system is flexibly adaptable to various industries, e.g. pharmaceuticals, fashion, e-commerce, returns handling, etc.

Complete intralogistics solution from a single source creates valuable synergies

The future of logistics belongs to robots equipped with artificial intelligence. In order to offer this next level of warehouse automation in the highest quality, HÖRMANN Logistik, with over 35 years of intralogistics know-how and the modular HiLIS Warehouse Management System, has formed a partnership with robominds, who have already been successfully working with AI for years. Together, the two Munich-based companies will design and implement fully integrated intralogistics systems with pick-by-robot solutions. This will make intralogistics technologies more future-oriented, efficient and flexible.

Key facts HÖRMANN Logistik

- Founded in 1987 in Munich
- Member of the HÖRMANN Group
- Approx. 90 employees
- AutoStore® distributor
- Top 100 Company 2020

Key facts robominds

- robotics startup from Munich
- Founded in 2016
- More than 20 employees
- Pioneers in the field of artificial intelligence

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