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World premiere: PH-AMR 750/1500

Autonomous pallet handling in new sizes

Munich. As driverless transport systems for automated pallet handling, the PH-AMR models from DMG MORI are a central component in Machining Transformation (MX). With a free layout design, the autonomous mobile robots move independently on the shop floor in collaboration with humans. Their task is to bridge the distance between the pallet store and the machine. Loading and unloading is done autonomously. Following the success of the PH-AMR 5000, DMG MORI is expanding its range in this area with two additional sizes: the PH-AMR 750 and the PH-AMR 1500. The smaller version of the self-propelled pallet handling system was developed as part of a customer project and navigates through production just as reliably and safely as its big sister model with the help of laser scanning. PH-AMR models are integrated into the CELL CONTROLLER LPS IV for simple production planning and control.

Space-saving and versatile

The PH-AMR 750 can be loaded with 750 kg and is designed for 630 x 630 mm or \varnothing 800 x 630 mm pallets. The maximum component size is 800 x 800 mm. The PH-AMR 750 transports conventional machine pallets as well as zero-point clamping systems. Thanks to a vertical axis, the mobile pallet handler has two levels, eliminating the need for double travel paths. Its lifting height is 1,300 mm. At just 1.5 m², the space required by the driverless transport system is extremely small. The PH-AMR 1500 is suitable for heavier components. It transports up to 1,500 kg at a lifting height of 2,010 mm. The larger model requires 5.2 m² of space.

Accessibility and visibility of the machines are fully maintained when using the PH-AMR models. This means that manual loading or loading by crane is also possible independently of automated operation. In addition, the automation can be easily expanded: both additional PH-AMRs and machines with an automation interface can be integrated into the system at any time. Compatibility with common machining centers allows operation on different models of the DMU and DMC monoBLOCK series, for example, as well as on DMU and DMC duoBLOCK machines.

Free layout design and secure navigation

The free layout design of the PH-AMR 750 allows subsequent integration into existing production environments. The modules can be freely positioned and the travel paths can be adapted at any time. A safety enclosure is not required. This is because reliable and safe operation of the driverless transport systems is guaranteed by laser scanners from Sick, which also detect objects on the sides, and the SIMOVE ANS+ navigation software from SIEMENS. The transport system can move freely in any direction and turn on the spot. The maximum speed of the two PH-AMRs is 6 km/h. The Li-Ion battery enables operation for over ten hours. A charging station supplies the system with power when required - also automatically.

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The PH-AMR 750 is a self-propelled transport system for handling pallets measuring up to \varnothing 630 x 630 mm or \varnothing 800 x 630 mm.

Company Profile // DMG MORI

DMG MORI is a leading global manufacturer of high-precision machine tools and is represented in 43 countries – with 116 sales and service locations, including 17 production plants. In the “Global One Company”, more than 13,000 employees are driving the development of holistic solutions in the manufacturing industry. Under the guiding principle of Machining Transformation (MX), DMG MORI combines four pillars for the efficient, sustainable production of the future: Process Integration, Automation, Digital Transformation (DX) and Green Transformation (GX).

DMG MORI stands for innovation, quality and precision. Our portfolio covers sustainable manufacturing solutions based on the technologies Turning, Milling, Grinding, Boring as well as Ultrasonic, Lasertec and Additive Manufacturing. With technology integration, end-to-end automation and digitization solutions we make it possible to increase productivity and resource efficiency at the same time.

At our production sites worldwide, we realize holistic turnkey solutions for the main sectors of aerospace, automotive, die & mold, medical and semiconductor. With the DMG MORI Qualified Products (DMQP) partner program, we offer perfectly matched peripheral products from a single source. Our customer-oriented services cover the entire life cycle of a machine tool – including training, repair, maintenance and spare parts service.

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