

PRESS RELEASE

Supply of material right up to the workstation: Mobile ORSY®mat

Würth Industrie Service/Bad Mergentheim. How about a mobile vending machine that provides the required materials directly at the workplace? How about a robot that takes the vending machine wherever it is needed? The two partners Würth Industrie Service GmbH & Co. KG and W. Gessmann GmbH, a supplier of robotics and system solutions, are conducting a feasibility study to show how this can be achieved in the future.

Practical technologies in line with modern C-Parts management succeed hand in hand with one's own customers as well as with partners from science, trade and industry. A joint discussion results in future-oriented solutions that make existing processes even more efficient and make working even easier in industry. The ORSY®mat mobile vending machine is another example of how intelligent technologies are shaping the industry of tomorrow. With the GESSbot Gb350, an autonomous mobile robot (AMR) from Gessmann, which automates internal transport quickly and cost-effectively, the vending machine can potentially supply materials right up to the workstation. The special solution of the two partners aims to optimise decentralised material dispensing, reduce the workload on employees and at the same time increase efficiency, flexibility and safety. Apropos safety: Thanks to the special sensors that map the surrounding, the robot follows every defined route, travels to workstations and charging stations and makes itself aware of obstacles. In future, it will even be possible to use lifts across several floors. The controls are absolutely reliable and intuitive. In combination with the digital iDISPLAY and Würth Industrie Service's own software solution, the mobile GESSbot including ORSY®mat can be navigated from A to B easily. Each workstation is equipped with an iDISPLAY, which displays the pre-programmed routes that can be selected and requested by the respective employee. These are clearly structured and are sorted in the order of incoming orders. It is also possible to request urgent requirements immediately by prioritising the route. The GESSbot Gb350 itself is also equipped with an integrated display that can communicate with employees in the immediate vicinity. With a possible load capacity of 350 kilograms and a weight of 150 kilograms, the mobile ORSY®mat reaches a maximum speed of up to 4.3 kilometres per hour – equivalent to half a walking speed – on a maximum gradient of 5 percent. Power is easily supplied by the robot, which finds its own way to the charging station in a timely manner, docks

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11.07.2024

and charges fully automatically. In the series version, the ORSY®mat will be installed in future on an autonomous rack that is supplied inductively via the GESSbot. This means that the racks remain mobile and a single GESSbot can transport several vending machines to different locations. Absolutely flexible.

The smart solution for materials management

Auxiliary and operating materials like sanding discs, drills, hand tools or protective gloves have a major impact on procurement due to their irregular requirements and a wide variety of items, and their shortage can bring the entire production to a standstill. The key to efficiency is achieved with the reliable ORSY®mat vending machine solutions by Würth Industrie Service – and it has been so for over 10 years: Today, more than 1,800 vending machines at over 400 customers in 650 different storage locations are already ensuring all-round more productive materials management. Customers from manufacturing industries can benefit from perfect and organised stocking, automatic replenishment, transparent inventory control and, thereby simply from more productive materials management for indirect materials – from tools and technical chemicals to personal protective equipment (PPE). The system communicates directly with the ERP system of Würth Industrie Service, thus allowing the customers to monitor their inventory and material withdrawals in real time. Different variants of the vending machine models are available in order to fulfil individual customer requirements optimally. Whether it is the ORSY®mat FP flap vending machine, ORSY®mat HX helix vending machine, ORSY®mat RT rotating vending machine, ORSY®mat DR Light drawer vending machine or even the latest developments like the ORSY®mat WGT weighing system as well as the ORSY®mat CHE hazardous materials system: work gets done better with these stocked vending machines!

Therefore, the tried and tested vending machines have become indispensable when it comes to production-related consumables. Ultimately, these allrounder talents achieve contactless and fully automated procurement thanks to the holistic inventory overview and lead to a significant reduction in costs and time thanks to the decentralised provision. This allows the purchasing team to concentrate more on their core competences. Above all, what is convincing is the fact that the items are available directly at the customer's place of use as required, independent of material dispensing. Decentralised placing at the place of use also eliminates the need for walking distances and frees up valuable time for core processes in purchasing, logistics, production and maintenance. With the feasibility study of the mobile ORSY®mat, the two partners Würth Industrie Service and Gessmann are making it possible to supply materials right to the workstation. Absolute safety is also guaranteed: Moreover, the storage is secured and loss is reduced to a

minimum through a secured access authorisation for withdrawal. However, the prototype is not only impressive in terms of safety as high-quality items in particular can be stored securely, but it also proves to be an ideal co-worker thanks to its mobile transport from workstation to workstation. The complete transparency of all transactions, withdrawals and orders enables an immense reduction in consumption. Customers benefit from maximum savings in their process costs by taking over the requirement assessment, requirement notification, reordering, goods delivery and optional on-site system replenishment.

Unimaginable yesterday, real today, smart tomorrow: With the feasibility study of the mobile GESSbot in combination with ORSY@mat vending machines, the two partners are paving way for material supply right to the workstation.

Photo material

Captions:



Photo 1: Mobile ORSY@mat.jpg

Caption 1: Potential supply of material right up to the workstation: Mobile ORSY@mat

Photo source 1: Luisa Heller, Prime Holding



Photo 2: ORSY@mat vending machines.jpg

Caption 2: The invisible hand in materials management - ORSY@mat vending machine for reliable and efficient materials management.

Photo source 2: Scanner GmbH

Brief profile of Würth Industrie Service GmbH & Co. KG

Within the Würth Group, Würth Industrie Service GmbH & Co. KG is responsible for supplying to the industrial sector. Since its foundation in the year 1999, the company is located at the Würth Industrial Park in Bad Mergentheim, Germany with over 1,800 employees.

As a one-stop C-Parts provider, the company offers its customers a specialised product range with over 1,400,000 items: from screws and tools to connection and fastening technology, technical chemicals as well as occupational safety solutions. Aside from the extensive standard product range, the strength of the company lies in its customer-specific, logistical and dispositive supply and service concepts as well as special parts. Under the service brand "CPS® - C-Product Service", the company offers modular solutions customised as per the customer's requirements. These consumption-based and demand-based systems streamline the processes for purchase, logistics and quality assurance while enabling the procurement of small parts in a cost-optimised manner. Logistic and dispositive services such as shelving systems that use scanners or a just-in-time supply using Kanban bin systems play a significant role in increasing productivity.