

PRESS RELEASE

Expansion of logistics center is coming to an end: storage and retrieval machines integrated into new high-bay warehouse

Würth Industrie Service
GmbH & Co. KG
Stephanie Kozany
Press and Public Relations
97980 Bad Mergentheim

Bad Mergentheim/Main-Tauber-Kreis. On Tuesday, 28 March 2017, the storage and retrieval machines were delivered and installed for Würth Industrie Service GmbH & Co. KG's new high-bay warehouse at Würth Industrial Park in Bad Mergentheim.

T +49 7931 91-1153
F +49 7931 91-51153
www.wuerth-industrie.com
Stephanie.Kozany@wuerth-industrie.com

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Storage and retrieval machines (SRM) are the heart of the new high-bay warehouse at Würth Industrie Service. They are column-guided vehicles that are used to store and retrieve goods. Five completely automated SRMs operate in the five aisles of the newly erected high-bay warehouse at Würth Industrie Service. The warehouse, which is 45 m high and 120 m long, is among the largest warehouses of its kind in Europe and forms the basis for continued maximum supply security for all customers. It currently has a capacity of 49,000 pallet spaces.

During the night from Monday to Tuesday, three 50-meter-long trucks transported the storage and retrieval machines from Neuenstadt to Bad Mergentheim. For that purpose, several roads in the surrounding area of Bad Mergentheim had to be closed for a few hours.

The installation of the SRMs in the 45-m high-bay warehouse then turned out most spectacular as the storage and retrieval machines, measuring 42.8 m in height and weighing 24 tons, had to be lowered through the warehouse roof. This was a high-precision job for the persons in charge and even the slightest change in the weather conditions had to be taken into account.

The single-masted SRMs of the type B **MSINGLE** form the technical basis with two load-handling devices each (telescopic forks), which are produced by the company **MLOG** in their own manufacturing premises in Neuenstadt. The maximum driving speed of the SRMs is 180 m/min, with a maximum lifting speed of 70 m/min. Both load-handling devices provide a total load-bearing capacity of 2,200 kg. One of the telescopic forks can carry up to 1 ton and the other one up to 1.2 tons of weight. By using frequency-controlled three-phase power units, the individual speeds can be adjusted variably, thus allowing for high precise and optimal curve handling. This is an economical solution from

the perspective of energy consumption, too, as it consumes significantly less energy than conventional motors. At Würth Industrie Service, the new drive motors save approx. 25 % more energy compared to the existing high-bay warehouse, and energy is fed back into their own power grid.

Around EUR 13.5 million were invested in the expansion of Europe's most advanced logistics center for industrial supplies. The aim is to construct a cutting-edge robot- and computer-controlled warehouse and logistics center.

The inauguration of the new high-bay warehouse is planned within the framework of a large customer event, the Expert Forum for C-Part Management, which will take place on 16 and 17 May 2017.



Figures:

Figure 1+2: Lifting of storage and retrieval machine to be installed in the new high-bay warehouse

Captions 1 + 2: Lifting of storage and retrieval machines to be installed in the new high-bay warehouse

Short profile

Würth Industrie Service GmbH & Co. KG is the principal supplier for the industry sector within the Würth Group. Since it was founded in 1999, the company has operated at its location in Bad Mergentheim, the Würth Industrial Park, with currently more than 1,420 employees.

To its customers, the company presents itself as a full-service C-part supplier with a specialized product range comprising more than 1,000,000 items, including screws and bolts, fastening and connecting materials, tools, technical chemicals, and PPE.

In addition to its comprehensive standard range, the company's main strength lies in the provision of customized supply and service concepts in logistics and materials planning as well as the supply of special parts. With its CPS® brand — C-Product Service — Würth Industrie Service can offer its customers modular solutions, which can easily be adapted to individual customer needs. Consumption- and demand-driven systems help to streamline the processes for purchasing, logistics and quality assurance, enabling the customer to optimize the costs involved in the procurement of consumables.