

Storage
Order Picking
Handling & Automation

Case Study 020

Machinery



STORAGE AND ORDER-PICKING OF MACHINE COMPONENTS

The Customer

The Schmid Group/Gebrüder Schmid GmbH is a global supplier of integrative process solutions for printed circuit board technology, flat panel displays and applications in thin film photovoltaics, solar wafers, cells and modules. The company's product portfolio stretches from innovative individual equipment to the complete turnkey production lines. The family-run business with headquarters in Freudenstadt in the Black Forest, Germany, employs around 2,500 people worldwide. Apart from production facilities in Germany, Switzerland, Taiwan, Japan, China and the USA, the group has several service centers all over the world.

Further Information:
www.kardex-remstar.com



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Task definition

At its headquarters in Freudenstadt, Schmid produces mainly wet processing systems for the photovoltaic industry. As a result of the ever-growing demand for its products, the company needed additional storage capacities and production spaces. In the production area, more than 16,000 machine components of different sizes and dimensions needed to be stored and efficiently provided as and when required. With a new storage solution, the manufacturer wanted to increase productivity by implementing more effective storage and retrieval processes, faster picking operations and optimized stock control strategies.



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Solution



With a new building, Schmid managed to extend its existing warehouse. As a new storage solution the company decided in favour of 19 Shuttle XP 500, each of them equipped with two access openings. To make their processes more efficient, the inbound and outbound goods stations were separated from each other. Today, incoming goods are stored on the first floor; all picking operations take place on the second floor. Material requirement planning is handled by the customer's SAP software. For the time and cost-efficient management of the 16,000 articles, Kardex Remstar integrated its own Power Pick Global software into the existing SAP system. Free space on a tray can be optimally used with the random storage strategy; goods are picked according to the FIFO (First In, First Out) principle. An innovative user management system allocates individual access rights and guarantees optimal inventory levels. The best thing about this solution from the point of view of efficiency, however, is that on each floor, 4 modular lifts are logistically combined into one picking zone. After an operator selects a specific picking order at one of the zone PC workstations, trays in the respective lifts move simultaneously towards the access openings. By separating the warehouse into different zones, the operating staff can process picking orders and store articles – at the same time and on the same floor. After completion of all order positions in one zone, the operator is guided into the next zone.

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Advantages at a glance

- Modular lift system stretching across two floors
- Optimization of intralogistic processes by separating inbound and outbound logistics
- Improved stock control through integration of Kardex Power Pick Global WMS into the customer's SAP system
- Allocation of individual access rights
- Increased production through warehouse separation into different zones

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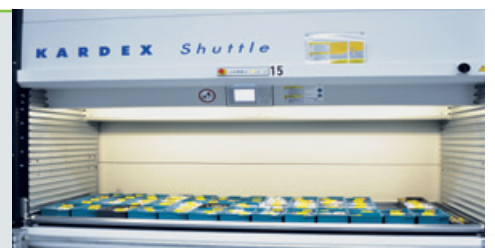
Process description

We would be delighted to explain the different processes in detail in a personal consultation.

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Scope of delivery

- 19 Shuttle XP 500 (W x D x H: 2,450 x 864 x 8,950 mm)
- 2 access openings per unit
(one on ground floor, one on top floor level)
- Kardex Software: Power Pick Global with connection to SAP
- Fold-down front construction to remove goods from the unit



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