



WKB

Pallet handling robot application made by WKB Systems

Not only main production areas but any supporting processes in the product manufacturing can be completely automated. The feeding of pallets in the packing line is one of those backup processes. Usually, it is done by an operator who places by hand a ready to be loaded pallet on a conveyor of the packing line. At the same time, he is responsible for destacking and upturning of interlaced pallets.

WKB solution for more efficiency

The engineers of WKB Systems worked out a smart robot application solution for the packing area to arrange all the workflows more effective and well-organised. Furthermore, the logistic costs by using interlaced pallets can be reduced. The robot used is usually an articulated robot with 6 axes that ensures a very high level of flexibility. The robot is fitted with a special pneumatic gripper.

The main task of the robot is to take a pallet from the storage area and place it on a conveyor of the packing line. Before starting the process, the robot recognises with special sensors,

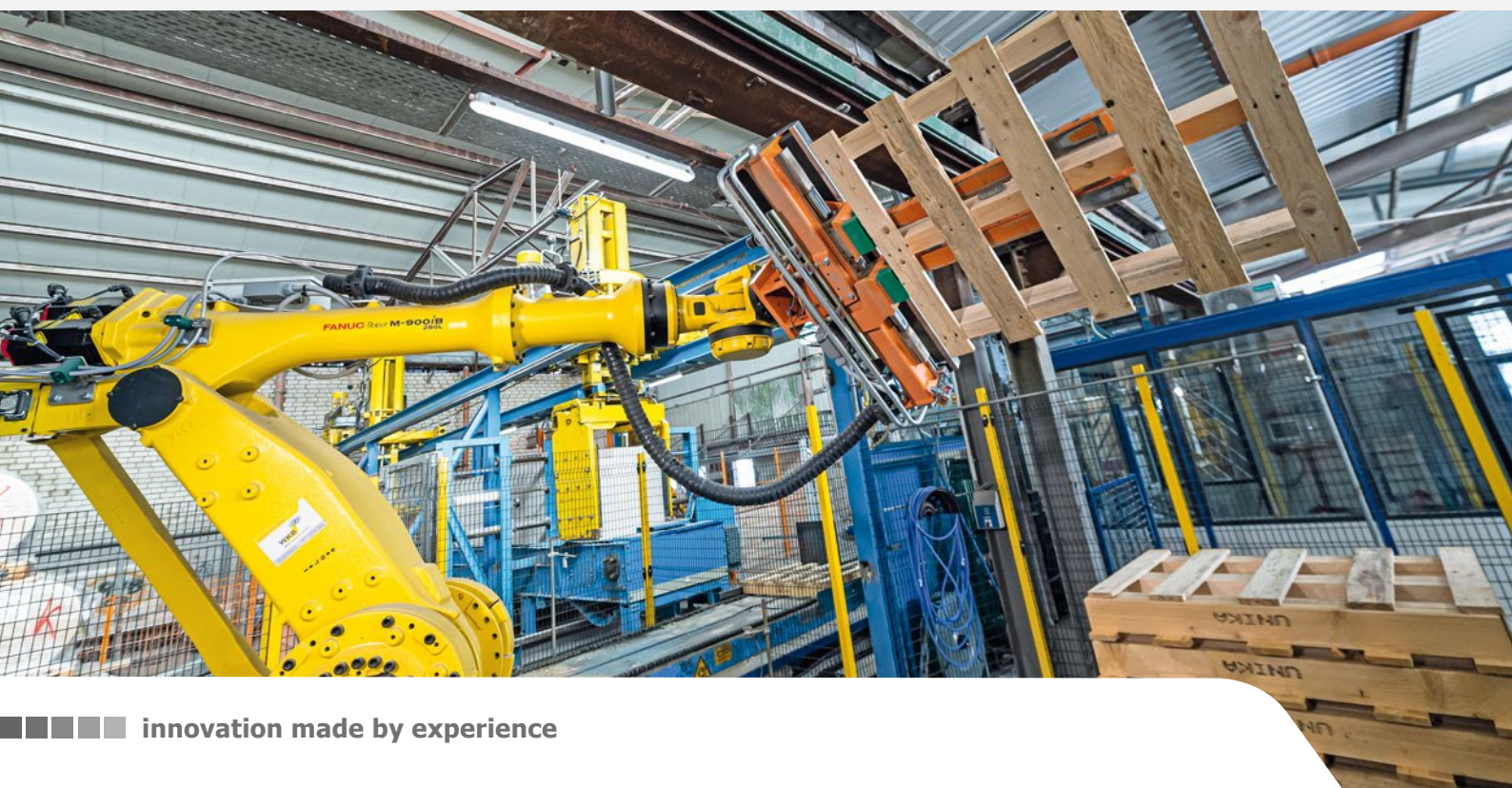
if a pallet is interlaced or not. Then the gripper takes every single pallet, turns it at 180°, if needed, and feeds the conveyor with it. Furthermore, the robot uses special fingers to place the pallet right in the middle of the conveyor or any other point of placement needed.

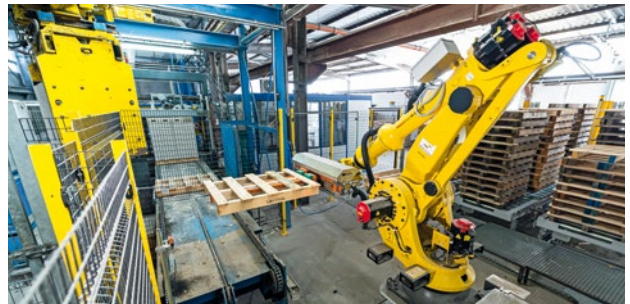
Furthermore, the automatic pallet handling by WKB Systems is completed with a pallet storage and conveying systems up to the packing line.

Technical characteristics:

- Standard or non-standard pallets handling
- High level of precision while positioning of the pallet onto the packing line
- Completely automated feeding process, incl. pallet storage and conveying systems of the customer

The application can be also realised with a control system, safety technology and CE from a single source, with any individual design being possible.





WKB Systems: Innovation made by experience

WKB Systems is a medium-sized company headquartered in Hörstel, North Rhine-Westphalia, Germany. We are specialists in developing and manufacturing systems, machines and plants in the areas of building materials production, forging automation and special machine construction.

WKB Systems brings you customized machines from standardized solutions through to individual one-off productions. Our 100+ team of specialists develops individual solutions and concepts to meet your requirements.

We offer our international customers:

- reliable service
- best product quality
- innovative conceptions

True to our philosophy, „Innovation made by experience“, we answer our customers' needs by designing innovative systems thought out down to the very last detail.

Both the effectiveness and cost-efficiency of our production sites, as well as the quality of our products, have been just as decisive for our success so far as our reliable and partner-oriented collaboration with our customers. The success of our customers is our top priority: we offer you numerous specialised machines to enhance your competitive value.

Plant modernisation is also a further priority: we ensure a higher product quality and more effective work processes in your plant. WKB Systems offers you high-performance, reliable and maintenance-friendly (specialised) machines with coordinated and highly innovative technologies for the production of building materials and for forging automation.

We are your partner! Our goal is your success!

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