

viapick

Automated Pick'n'Pack Solution



viapick is a fully-automated picking system for average-moving and slow-moving products. The autonomously working system replaces the picker. As a picker on the pick station, it grips into the storage container and places the products in the order container or in the shipping carton as defined (Pick'n'Pack).

viapick provides the following advantages:

- Increased productivity
- Order processing 24/7
- Support of the multi-order principle: different customer orders are picked from one storage container into several shipping cartons
- Approx. 450 picks and defined placing processes per hour
- Increased process reliability
- Lower processing costs
- Lower expenses of investment and installation
- Considerations concerning ergonomics and occupational safety not applicable

viapick components:

- Extensions of the conveyor system for the automated transport of the pick containers and the storage containers
- Pick station for the viapick robot
- Linear axis with a measuring system for the position identification of the items in the storage container
- Software to control the robot
- Analysis software for the measuring system
- Extension of the existing viad@tWMS software by the viapick functionality



And this is how the fully automated picking system viapick works:

1. A pick container arrives at the pick station.
2. The respective storage container is transported to the automatic pick station.
3. Fixation of the storage containers.
4. An image recognition sensor is directed over this container. The warehouse management system viad@t analyzes the recorded image data.
5. When the optimum grab position has been calculated by the viapick software, the robot takes an item from the storage container.
6. The picked item is put onto a constructed, defined position in the pick container.
7. The storage container is released and then put away.
8. When the last item has been put into the container, the pick container is put away as well.
9. Optionally, return to mini-load system (also suitable for pre-picking) or routing to shipping point.



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