

Flexible parts supply and availability Palletizer

Powered by pi4



Customer benefits

- + Short cycle time
- + Container and pallet types freely selectable within maximum dimensions
- + Layer patterns freely selectable by the operator
- + Product size freely adjustable within the maximum dimensions
- + Stacking with different layer patterns possible
- + Comfortable operation with clear, structured operator guidance
- + Remote maintenance via Internet



Automated production is only really efficient if it runs smoothly. Important aspects here are part feeding to the robot or the provision of high-quality parts into pallets or boxes. Since these parts can be large and heavy, as well as small and very light, flexible and intelligent solutions are required. The palletizing robot from Voith Robotics provides one such solution. A compact handling system that operates via three linear axes in a Cartesian arrangement with these linear axes at right angles to each other, supplemented by a rotary axis operating with angles between 0° and 270°.

The products to be processed are fed to the palletizing robot by a roller conveyor and brought and set down at the required take-up position by an integrated positioning unit, so that they can then be taken up from there by a suction gripper. The product is moved to set-down position at speeds of up to 1.5 m/s via the three standardized high-performance linear axes. It can be simultaneously rotated into the desired position by the robot's rotary axis.

Any palletizing or box packing scheme can be realized with the pi4_control operating software, which is real heart of the entire system. The nature and size of the parts supplied no longer play any role, irrespective of whether they are stacked in boxes or on pallets. The complete system is therefore highly flexible and suitable for use in different industries.

Front and side views



Technical specifications

Machine size L x B x H	1 830 x 2 500 x 2 450 mm
Operating terminal width	900 mm
Voltage	400 V AC, 32 A
Weight	1 500 kg
TNS earthing system	

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