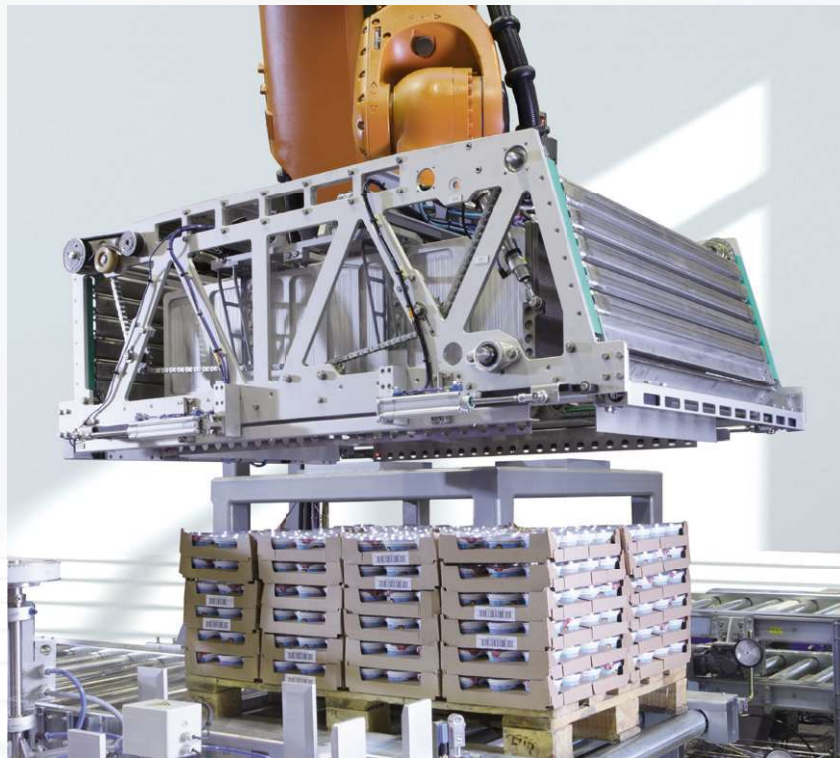


## ROBOT PALLETIZING | MultiLine



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### Technical Performance Characteristics

- Palletizer and pallet transport come with all required safety features. This includes a complete fence around the machine as well as a secured entry to the palletizing and layer preparation area. The interface with the pallet transport is secured by a light curtain.
- Prior to delivery every A + F palletizer is test run using original test materials. A final test record is also carried out.
- All A+F palletizing systems are delivered ready for connection to power and compressed air supplies.
- Use of industrial robots from either ABB or KUKA. Different makes are available on request.
- In support of the customers' operational requirements, gripper systems for handling either semi or complete pallet layers are used.
- The application of slip sheets from either a magazine or dispensing reel can be provided as an option.
- For control of the palletizer a Siemens PLC is used. The operation is by means of a large touch panel.
- As a standard FESTO pneumatic components are used.

### Technical Data

- **performance:** up to 180 layers/h
- **products:** trays, cases, low-wall trays, shrinktrays, plastic crates, etc.
- **pallets:** Euro, Industrial, Chep, half Euro pallets
- **slip sheet supply:** magazine or dispensing reel
- **electrical connection:** 230/400 V; 50 Hz; 19 kVA
- **compressed air connection:** R 3/4", 6 bar; 15 Nm<sup>3</sup>/h supply pipe: R 1"
- **machine dimensions:** depending on the configuration

### Functional Description

Depending on the upstream equipment, every palletizing cell is capable of serving up to 4 production lines.

For each single line a place for empty pallet storage, product palletizing, and full pallet storage is provided inside the palletizing cell. The empty pallet feeding and the full pallet discharge is either by means of pallet trucks or pallet conveyors.

From each line the product is fed to a layer preparation by a belt conveyor. Depending on the requirements in performance and pallet loading, the trays/cases are grouped in either rows or semi-layers.

When a product row or layer is completed, it is picked up by the robot gripper head.

The loading of the product layers is done by means of a servo-driven roller layer. During the transport from the layer preparation to the pallet the trays/cases are secured by a pneumatic centering device. For loading onto the pallet, the roller layer is retracted from below and the product is smoothly placed.

When a palletizing cell serves more than one production line, packing of mixed product pallets is possible by loading in turn product from the single layer preparations.

To stabilize the pallet load slip sheets can be inserted between layers. Vacuum suckers integrated in the gripper system pick up the slip sheets from a carrier pallet. Centering pins on the pallet ensure an accurate alignment of the slip sheets.

For specific operational requirements, a separate slip sheet inserter can be provided for line integration.



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