

Buhrs Palletisers

Automatic and manual pallet handling



Buhrs has taken over and integrated the activities of Roboxis Packaging, the producer of Palsys palletisers. These systems have been further developed and enhanced with our packaging experience. That means that we for the international Food & Beverage market are manufacturers of **palletisers** which distinguish themselves by their simplicity, reliability and practical implementation.

Buhrs P40-M

Basic palletisers for **manual handling of pallets**. The P40-1M has one pallet position: Once this pallet is fully stacked, it must be replaced with an empty one. Stacking is interrupted, thus a sufficient buffer just before the palletiser is needed or paused stacking should be allowed. For un-interrupted stacking the P40-2M is applicable. Once a pallet is fully stacked, the machine switches to the other pallet, allowing the fully charged pallet to be changed.

Options

- A wide range of input conveyors with stoppers, shifters, ...
- Modular gripper system.
- Telescopic Z-axis to reduce max. height.
- Dual gantry, to simultaneously handle two streams of different products.
- Interlayer (friction) sheets or cards.
- Hot-melt station for stabilising purposes.
- Product grouping to increase performance.
- AGV interfacing for un-manned operation.
- Management Information System integration.



Technical specifications Buhrs P40-M

• Dimensions WxDxH	Differs per application
• Product weight	Standard up to 25 kg <ul style="list-style-type: none">• Euro (800x1200 mm)• Euro + 1000x1200 mm• Or to specification
• Max. stacking height	1.800 mm including pallet or to specification
• Capacity	Depends on specs above and options in use
• Remote support	Standard
• Connections	3x400VAC, 16 A Compressed air 8 bar
• Colour scheme	frame RAL5007 fences/doors RAL9011

Buhrs P40 Stainless Steel Palletisers

As good as all palletising systems may be executed in **Stainless Steel**. Depending on their application (eg. packed or open food) a choice between AISI 304 and AISI 316 is offered. This leaflet depicts some applications.



P40-AISI304 palletiser ready for acceptance test.

Buhrs P40-A

Palletisers with augmented autonomy due to **automatic pallet handling**. The P40-A range has typically one pallet stacking location. From a pallet magazine, holding up to 15 pallets, an empty pallet is transported to this location. Once fully stacked the pallet moves to an output buffer, that can hold a (by customer specified) number of pallets. This systems ensures an un-interrupted production proces.

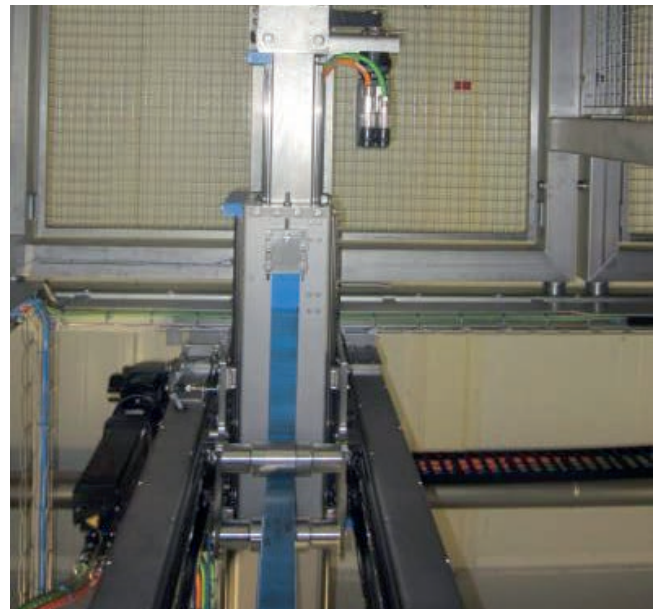
Options

- A wide range of input conveyors with stoppers, shifters, ...
- Product grouping to increase performance.
- Modular gripper system.
- Floor plan designed to match proces.
- In-line pallet wrapping/strapping.
- Automatic change of pallet size.
- Telescopic Z-axis to reduce max. height.
- Interlayer (friction) sheets or cards.
- Hot-melt station for stabilising purposes.
- Management Information System integration.



Technical specifications Buhrs P40-A

• Dimensions WxDxH	Differs per application
• Product weight	Standard up to 25 kg <ul style="list-style-type: none">• Euro (800x1200 mm)• Euro + 1000x1200 mm• Or to specification
• Max. stacking height	1.800 mm including pallet or to specification
• Capacity	Depends on specs above and options in use
• Remote support	Standard
• Connections	3x400VAC, 16 A Compressed air 8 bar
• Colour scheme	frame RAL5007 fences/doors RAL9011



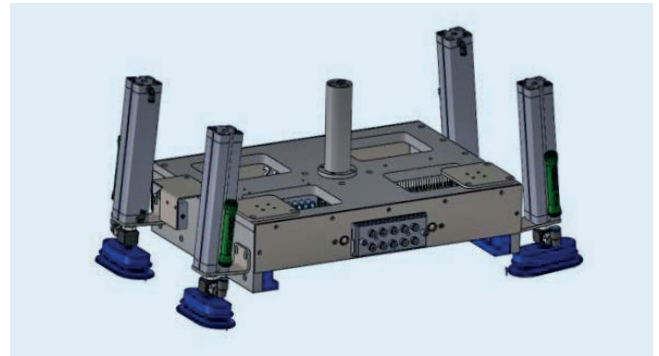
Under test: AISI304 palletiser with integrated automatic pallet magazine, sheet and foil dispenser and interlayer pallet placement.

Buhrs Modular Gripper System

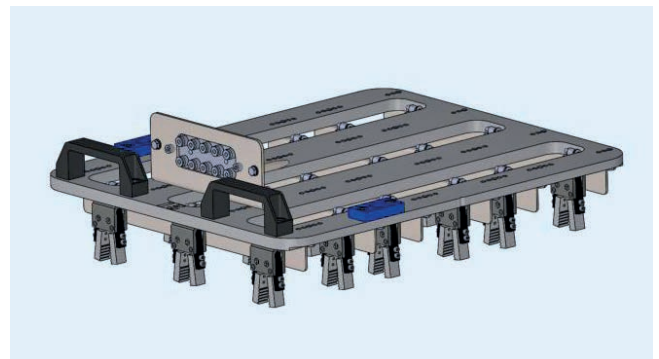
To allow for short set-up times and easy conversion between stacking jobs, a **modular gripper system** has been developed. A base gripper (image 1) is mounted to the Z-axis of the palletiser. This base comprises all 'expensive' parts, that are common for any gripper function (pneumatics, vacuum generation, distance measurement, product detection, ...). Gripper modules (images 2 and 3) can be slid into the base gripper. These may have mechanical gripping functions, an array of suction cups, suited for any type of products. Electrical and pneumatical connections are made while putting a module in place. The slide-in unit is locked on program start and the software checks whether the correct unit is mounted to do the selected job. Extending the range of products to be handled becomes easy and economical: gripper development is now restricted to specific slide-in units.

Options

- Handling of interlayer sheets or cards (blue suction cups in sample image 1).
- Stack height detection of interlayer cards.
- Product detection (by height measurement, vacuum underpressure or gripper plate position).
- Integrated magazine for grippers in machine frame or a separate cabinet for slide-in units can be supplied.
- Depending on the application the modular system can be supplied in Steel, Stainless Steel or Anodised Aluminium.



1. Base gripper



2. Sample of slide-in unit



3. Sample of slide-in unit