mariani

NPM

LOW LEVEL INFEED PALLETISER

Layout example: machine dimensions may vary depending on the application.
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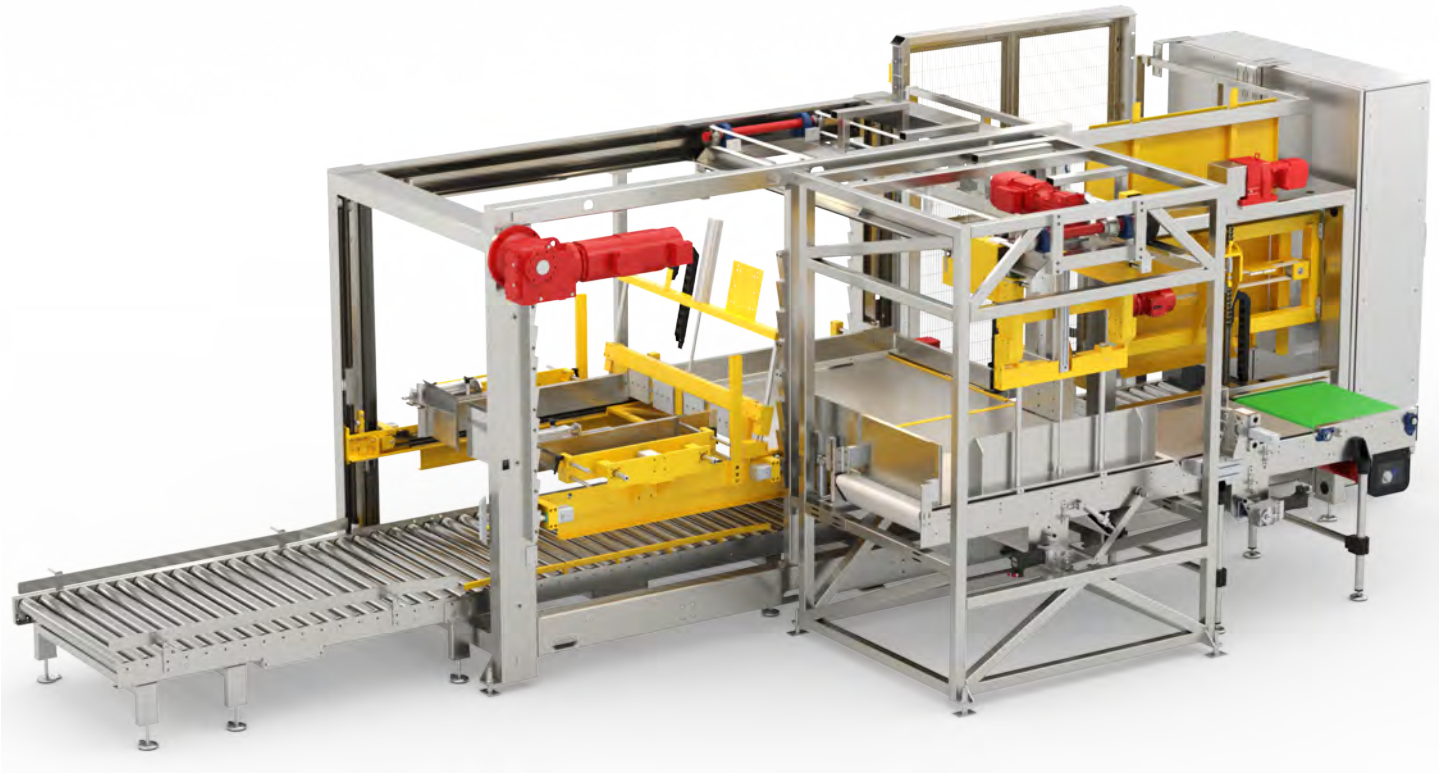

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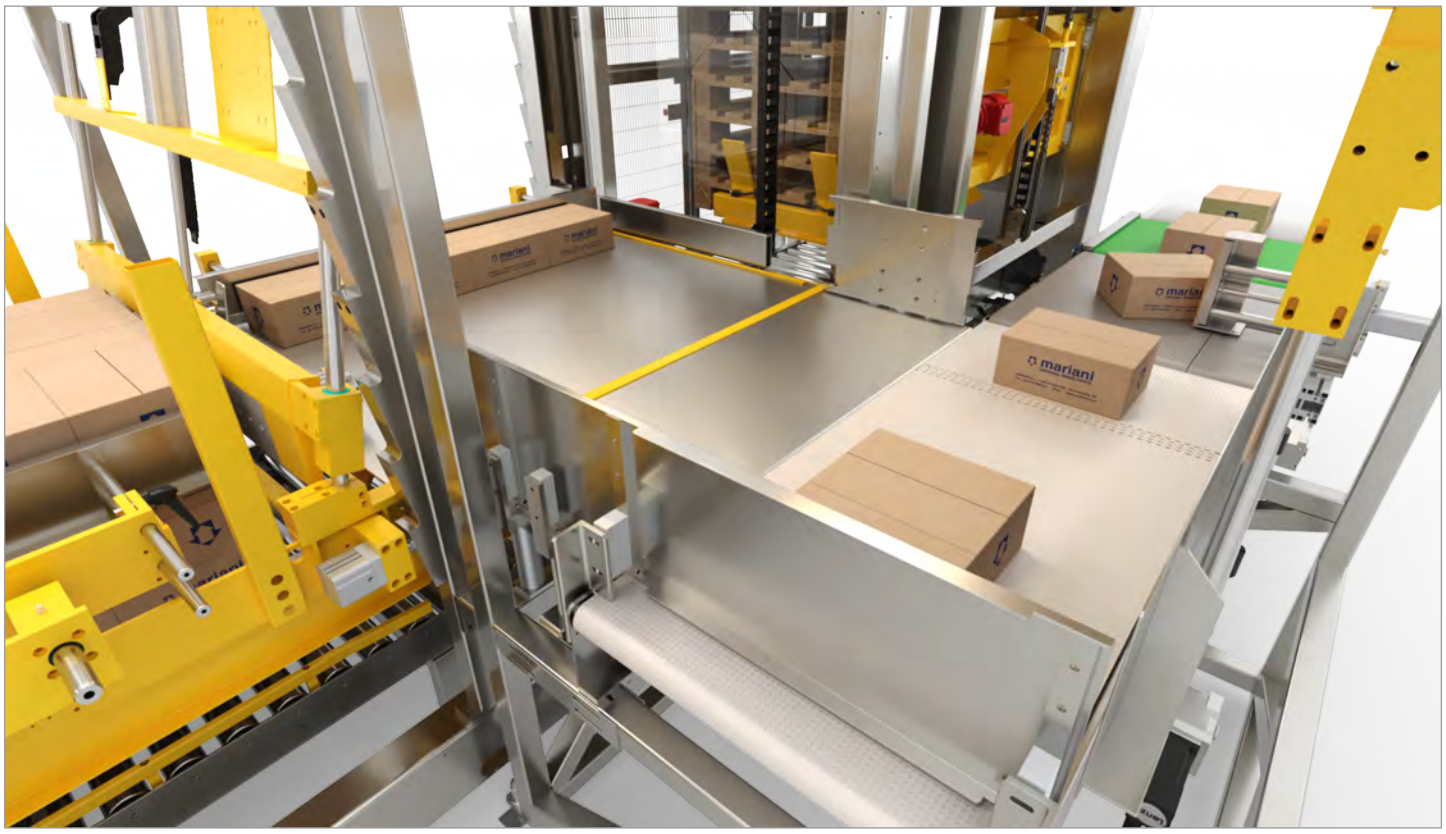
Functional characteristics

Automatic palletizer with product infeed at a working height of about 900 mm, which can use pallets of the specific dimensions used by the customer in its production chain, to palletize packages or form layers of cardboard boxes or trays, shrink-wrapped bundles or similar products.
In order to increase speed, this model can include a station where the layer is pre-formed before the station where packages are placed onto the pallet.



At the infeed the packages are suitably placed according to their final position on the pallet.
Once a row of packages has been completed, a pusher moves it to the pre-formation platform so as to create a layer. Once the layer has been created, another pusher moves the layer onto the mobile sliding structure that places it over the pallet to be filled.
The sliding structure returns to its starting position where it will receive the next layer of packages and perform this operation again. At the end of the cycle the full pallet is unloaded from the machine and an empty one is inserted in the machine.

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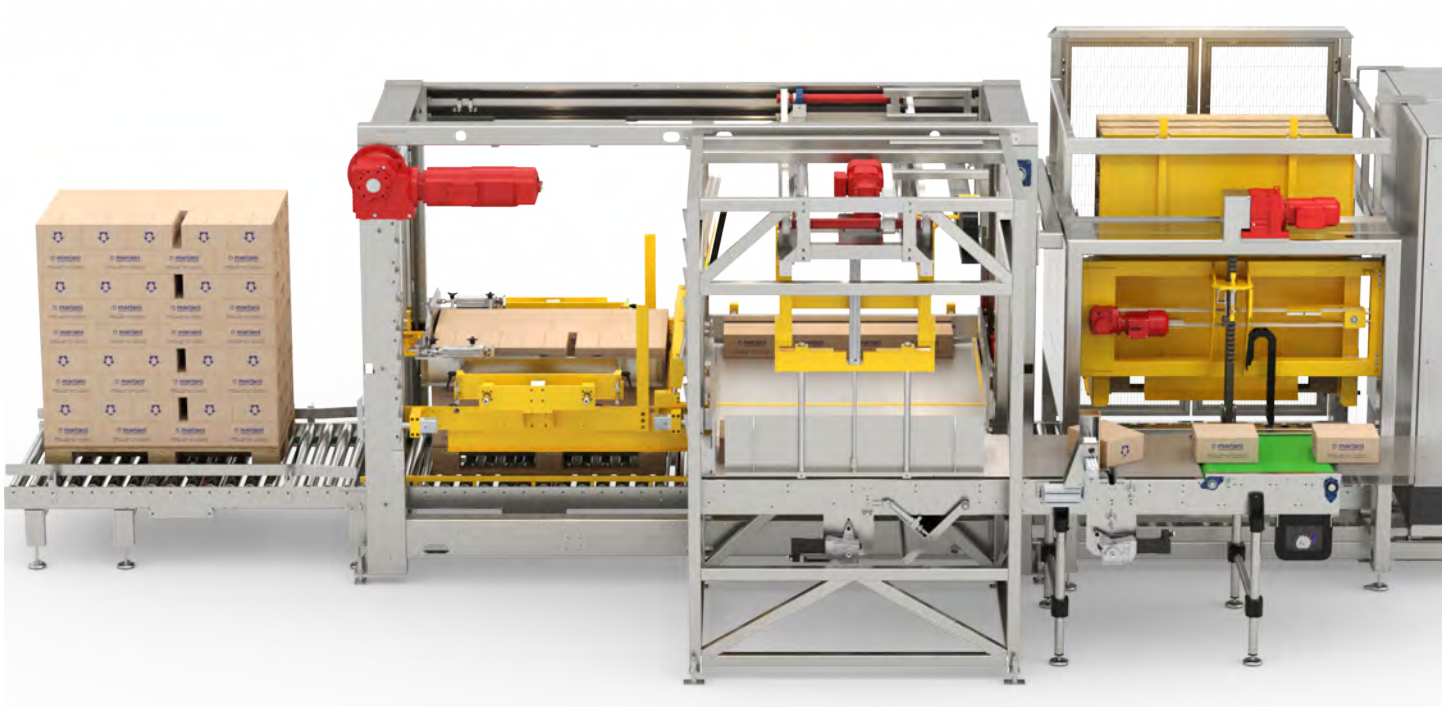
Technical data

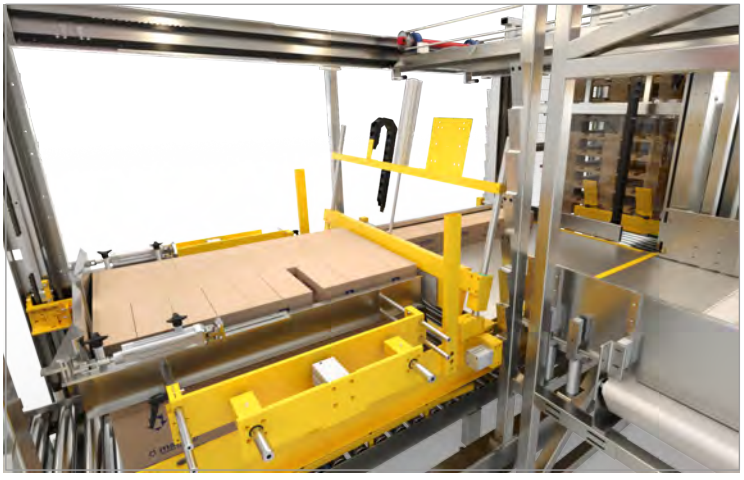
Thanks to its compact size and special design, the machine requires a reduced operating area and is suitable for small spaces since it can be easily placed in various environments, both new and existing.
High reliability over time: our machines are designed and built with systems and components which can withstand continuous use for several years of work, with very reduced costs.
Using the machine is easy and simplified thanks to its special management program with user-friendly functions. The 10" touch screen operator panel allows the operator to manage and monitor the machine operation.
Different palletizing programs can be used on this machine according to the customer's needs.

Optional devices

- empty pallet magazine;
- automatic device for applying intersheets;
- programs for managing and forming layers;
- additional devices, such as label, tape, and cap applicators;
- belt conveyors and relative equipment.



1. Modular design
2. Infeed belt with modular belts and independent automations
3. Perfect alignment of the layer thanks to motorized compacting side frames
4. Safety barriers complying with EC standards
5. High reliability over time
6. Maximum accessibility and visibility of the layer formation area
7. Low maintenance costs
8. Robust steel structure



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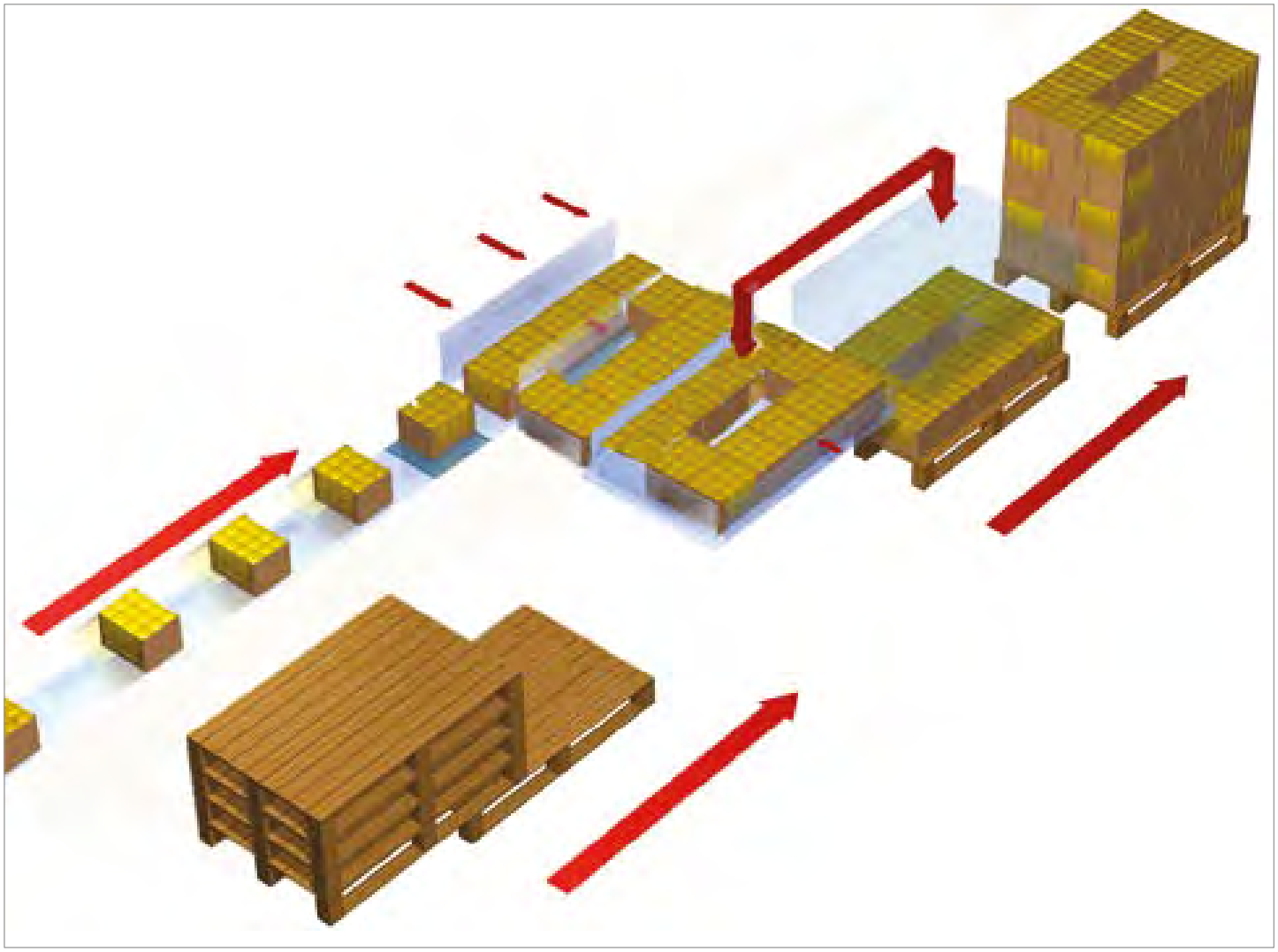
Working cycle



DESCRIPTION

When the products go inside the palletizer:

- they are counted so as to determine the necessary number to create a row and the machine checks whether they need to be rotated;
- the row is shifted from the infeed roller conveyor to the layer pre-formation area;
- this operation is repeated as many times as necessary to complete a layer which is then moved on the shutter plate;
- the lifting device, which includes the shutter plate, positions itself above the pallet being created;
- the shutter plate moves forward and above the pallet;
- the formation stop lowers, the layer compacting devices close, and the shutter plate moves backward so as to allow the layer to be deposited on the pallet underneath;
- when the pallet has been completed according to the number of layers set, the full pallet is unloaded from the machine and an empty pallet is taken from the magazine and loaded in the machine.

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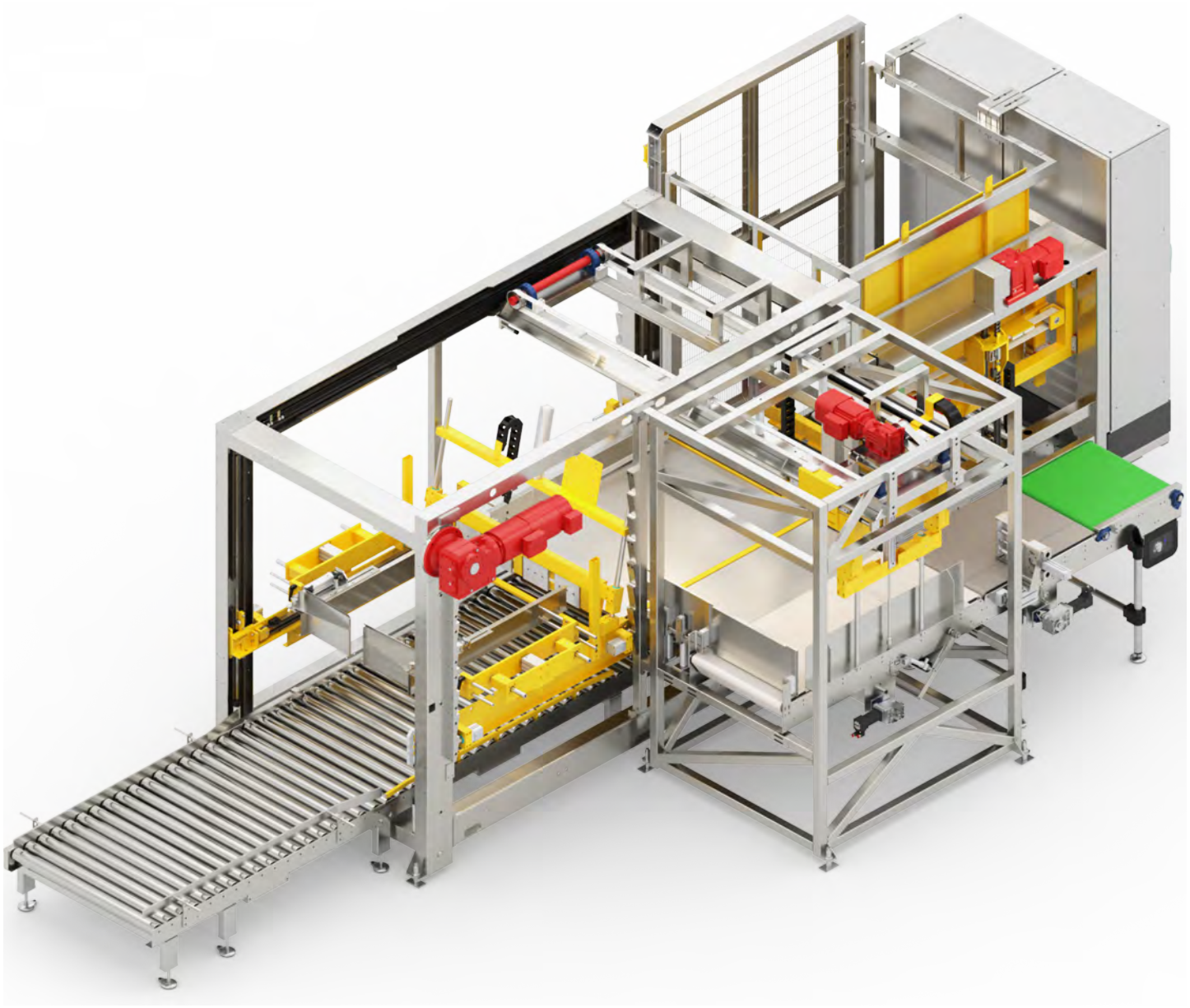
Machine data



NPM TECHNICAL FEATURES	
Operating speed	30 bundles or boxes/minute per each infeed
Pallet dimensions	800x1,200 mm - 1,000x1,200 mm
Electrical connection	Power: 16 kW - 3 x 400 V, 50 Hz - neutral + earth
Electrical consumption	Average: 7 kw - Maximum: 9 kw
Pneumatic connection	minimum 6 bar, clean, dry
Pneumatic consumption	Average: 450 nl/min -> 24 m³/h - Maximum: 600 nl/min -> 36 m³/h

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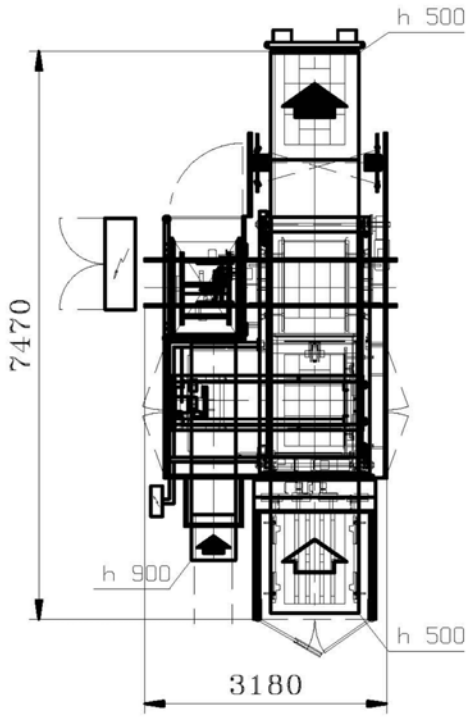
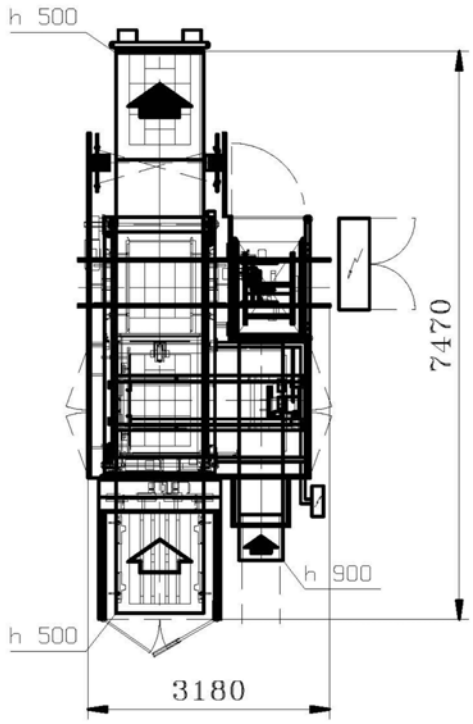
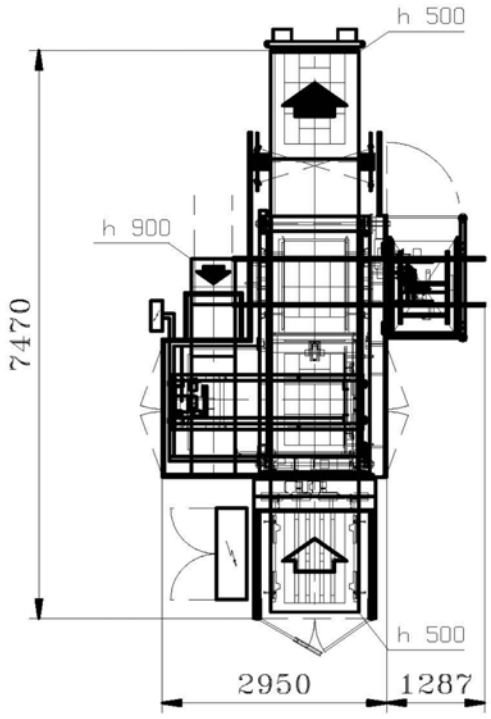
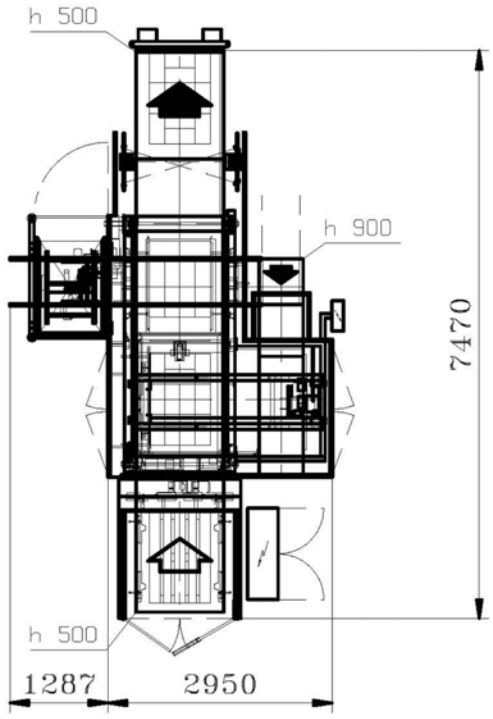
Machine lay-out









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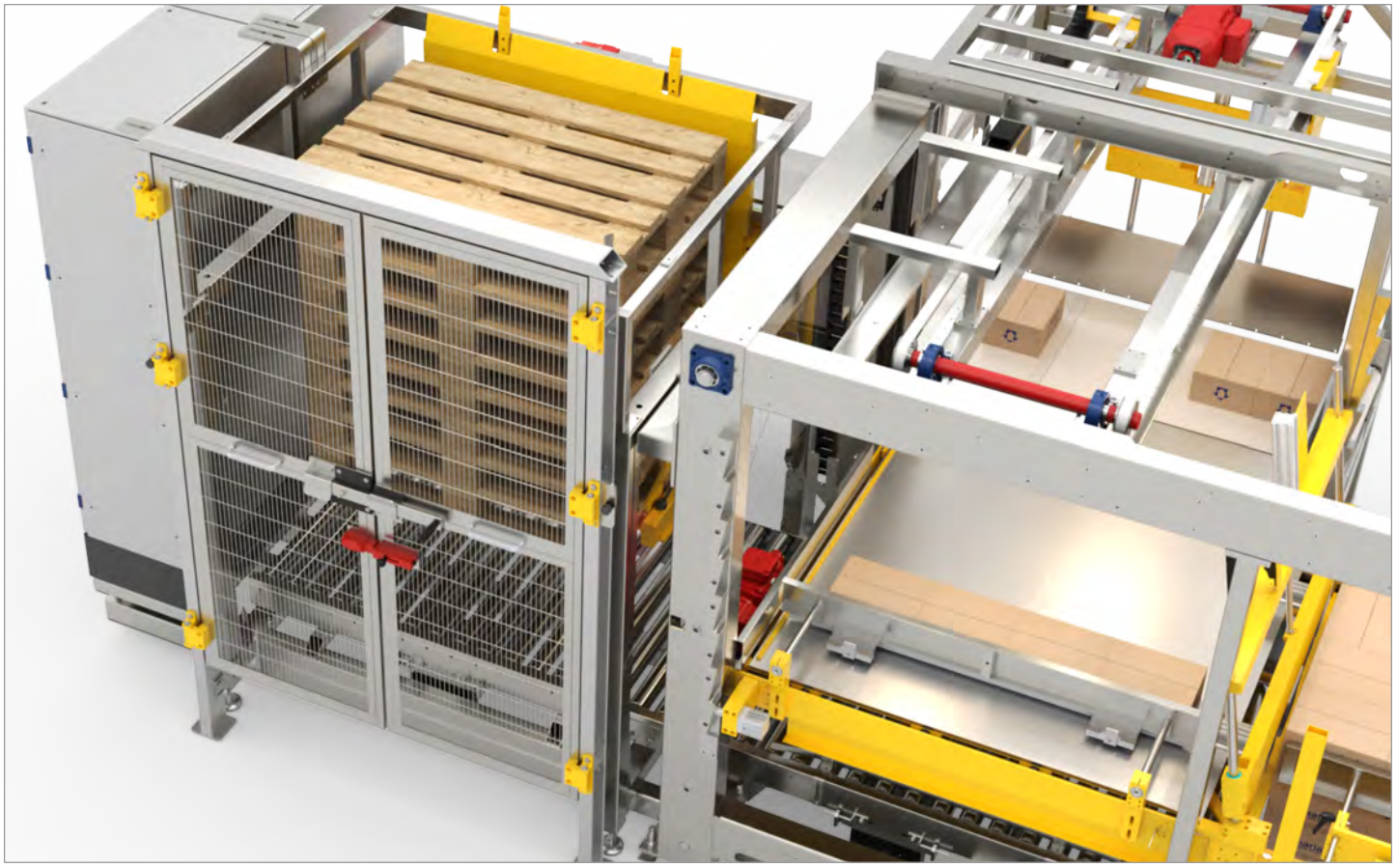

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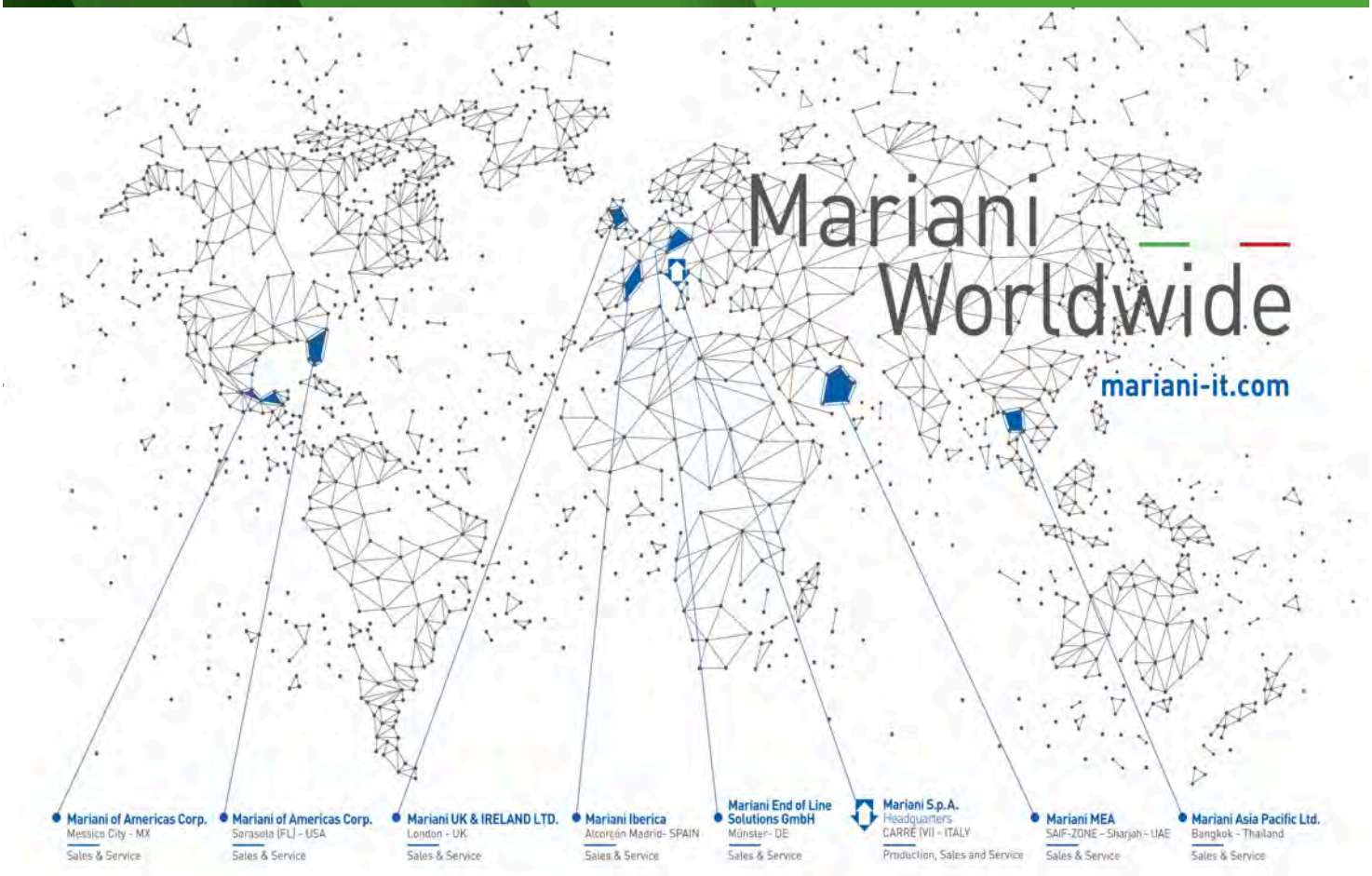

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