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MRP Robotic Palletizing



Robotic palletizing planned around package specifications, line speed, and pallet arrangement. A controlled transition from the production line to dispatch.

APPLICATIONS

Bag palletizing · Case palletizing · End-of-line automation

Operation and maintenance.

Every movement, from gripping the package to placing it on the pallet, impacts the rest of the line. The robot, gripper, and pallet pattern are planned in conjunction with production requirements.

01

Package preparation

Products are positioned correctly at the end of the line.

02

Gripping and transfer

The robot picks up the package using the gripper and moves it to the palletizing area.

03

Placement

Packages are stacked according to the designated layer and arrangement pattern.

MACHINE DETAILS



01 **Gripper**

Package weight, dimensions, and surface characteristics are key inputs for gripper selection.

02 **Pallet pattern**

Pallet dimensions, layer structure, and stacking pattern are determined based on product specifications.

03 **Line integration**

Conveyor flow, robot reach, and the working area are evaluated within a unified layout.

APPLICATIONS

Bag palletizing

Gripper and stacking pattern tailored to package specifications.

Case palletizing

Assessment based on dimensions, weight, and pallet pattern.

End-of-line automation

Integrated planning of conveyor and palletizing processes.

Technical data.

Evaluate model selection together with material properties, target capacity and plant layout.

Technical specification	MRP-01	MRP-02
Gripper type	Single gripper	Double gripper
Payload kg	≤ 50	Project-specific
Cycle time s	5-7	7–9
Palletising rate bags/h	600-800	800-1000
Reach mm	2400	2600
Pallet type	Euro / ISO	Euro / ISO
Layer pattern	Column / Interlocking	Column / Interlocking

Selection notes

The specified capacities and cycle times are theoretical and approximate values; actual performance may vary depending on parameters such as bag weight and fill rate, bag type and surface structure (kraft, PP, valved, open-mouth), product flowability and bag shape stability, line feed speed, conveyor layout and line geometry, robot reach, pallet pattern type, number of layers and layer pressing requirements, and gripper type (vacuum/mechanical).

Technical data support preliminary selection. Final capacity, power, dimensions and supply scope are defined in the technical quotation.

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From machine to plant. Engineering in every detail.

Metkan develops machinery and plant solutions for construction chemicals, minerals and aggregates. At our manufacturing centre in Elbistan, we consider equipment together with feeding, conveying and production flow.

Four inputs for selection

01 **Material and product**

Material properties; for bagged products, bag type, dimensions and weight.

02 **Process target**

Inlet conditions, required product and the next production stage.

03 **Production target**

Target hourly capacity, operating hours and production pattern.

04 **Installation**

Inlet/outlet levels, connections, drive and maintenance access.

Projects and sales

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Catalogue data support preliminary selection. Final capacity, power, dimensions and supply scope are defined in the technical quotation. Images represent the product family; configurations may vary.