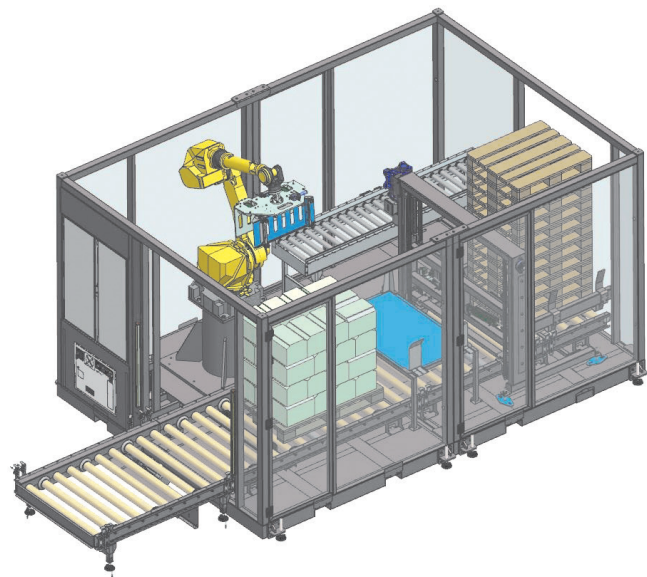
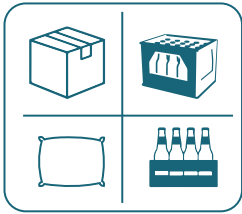




PALLETMAT-AP10

The Plug & Play Robotic Palletizer in a Box – Fully Automatic



Ideal For Carton Boxes, Multipacks, Trays, Totes, Bags
Productivity Operation Up to 12 cycles per minute Fully Automatic Operation

PalletMat series is a Plug & Play Robotic Palletizer in a Box that receives products directly from the production line and palletizes them according to pre-defined patterns.

With the use of a robotic arm from leading Japanese manufacturer **FANUC**, it ensures high speed and precise product handling while its compact design makes it ideal for sites with limited available space.

The “**Plug & Play**” features of PalletMat make its integration to the line extremely easy. Non-specialized personnel can install, commission and even move the system to different lines within the factory (the system is compact and forklift movable).

PalletMat Model AP10 is a fully automatic robotic system. Products arrive at the palletizing position from the infeed conveyor, are picked by the robotic arm and palletized according to pre-defined patterns. When the palletizing process is complete, the system discharges the loaded pallet on a conveyor outside the cell. A pallet de-stacker is included in the system for automatic pallet positioning, which makes the operation of the system fully automatic.

Due to its automatic operation, inherent flexibility, small footprint, and fast ROI, PalletMat-AP10 is **ideal for medium-to-large productions and sites with limited available space**, such as Food & Beverage, Animal Feed, Plastics, Chemicals, etc.

PalletMat AP10 is IoT ready and incorporates all the latest technologies of Industry 4.0.

Benefits

Reliability / Safety / Minimum Maintenance

PalletMat Series incorporates our 30 years of engineering excellence and combines intelligent design, top quality materials and robust construction, providing increased productivity, high precision, minimum downtime and very low maintenance requirements. PalletMat is a system for life.

Flexibility / Productivity Assurance / Minimized Operational Cost

PalletMat is designed to handle various pre-defined products or patterns with quick changeovers. Moreover, the system is forklift movable and can be easily moved to operate on other production lines within the factory. AP10 is fully automatic and requires minimum labour interaction.

Upgradability

PalletMat can easily be upgraded to cover new requirements, such as new products and patterns, increased productivity, stretch wrapping, etc.



PALLETMAT-AP10

The Plug & Play Robotic Palletizer in a Box – Fully Automatic

PalletMat-AP10 FEATURES

SCOPE, PERFORMANCE & OPERATION

Handled products	Carton boxes, Display Boxes, Trays, Multipacks, Bags, Totes
Productivity	max 12 cycles per minute
Operation	Fully Automatic
Pallet Positions	Single Pallet on Conveyor with Auto-discharge

PRODUCTS & PALLET TYPES & DIMENSIONS

Minimum Product Size (LxWxH)	230 x 150 x 100 mm
Maximum Product Size (LxWxH)	600 x 400 x 400 mm
Maximum Product Weight	40 kg
Pallet Type	EUR & CHEP
Maximum Load Height	Up to 1500mm; option 1800mm
De-stacker	Yes - Stack of 12 pallets
Forklift, Pallet Truck	Forklift, Pallet Truck

MACHINE DESIGN

Packed Dimensions (LxWxH)	4.600 x 3.150 x 2.300 mm
Working Dimensions (LxWxH)	4.600 x 3.150 x 3.000 mm
Conveyors (LxH)	Roller Infeed Conveyor 2.440 (L) X 451 (W) mm, Pallet Conveyor +1.665 (L) mm
Approx. Weight	4.800 kg, forklift movable
Standard Robotic Arm	FANUC
Gripper Operation	Mechanical

CONTROL

PLC	Siemens
HMI	Siemens
Remote Access	Pre-installed in the system for remote assistance

SAFETY

Safety System	Full Fencing plus safety curtain sensors, Double Emergency Stop circuit, Door Interlocks, CE Certification
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SUPPLY REQUIREMENTS

Power Supply	3 x 32A / 400V - 50 Hz (3P + N + GND)
Air Supply	6 Bar

WARRANTY

Full Coverage Warranty	1 Year - Unlimited Cycles
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Optional Features

Product Handling	Gripper options for handling various type of products (bags, totes, etc)
Increased Productivity	Multiple product pick - increased productivity
Interlayer	Automatic carton interlayer placement
Extra Pallet Stack	For increased autonomy
Other Pallet Types	Dusseldorf, Plastic
Low-Discharge	Option for Low-Level pallet discharging
Automatic Pallet Handling	Automatic Pallet Handling by Mobile Robots (AMR)
Labelling	Product Labelling on Infeed Conveyor or at Exit
Quality / Product Inspection	Automatic Product Quality Inspection & Rejection (check weighing, vision, etc)

