

Main features

- The compact structure and reduced footprint allow easy line integration even in limited production spaces.
- The 4-side open configuration ensures high machine accessibility, facilitating inspection, operation, and routine maintenance.
- The Cartesian motion system guarantees precise product placement on the pallet, improving load quality and stability.
- The configurable gripping head allows handling of products with different sizes, weights, and types, offering high production flexibility.
- The machine supports multiple pallet formats and can manage various load configurations, easily adapting to customer requirements.
- The use of ISO-certified components ensures operational reliability, production continuity, and reduced machine downtime.
- The system is designed for ease of use, enabling operators to manage daily operations quickly and efficiently.
- Integrated safety features and light barriers ensure safe operation while maintaining high cycle efficiency.
- Operating speed of up to 10 movements per minute ensures good efficiency in end-of-line packaging and automation.
- A wide range of optional equipment, such as pallet magazines, interlayer sheet systems, roller conveyors, and pallet stretch wrappers, allows the creation of fully automated end-of-line solutions.

Technical features

Model	TRON CARTESIANO
Pallet dimensions:	Up to 1000 x 1200 EUROPALLET
Minimum boxes dimensions LxWxH:	150 x 150 x 150 mm
Maximum boxes dimensions LxWxH:	400 x 600 x 600 mm
Gripper heads:	Suction cups, grippers or vacuum systems
Speed:	Up to 10 cycles per minute Speed: variable depending on palletizer configuration, product dimensions, and packaging type
Integrable components:	• Stretch wrapper • Roller conveyors and transfer systems • Interlayer system • Pallet magazine / pallet feeder • Label applicator • Top and corner cap applicator • Additional bay
Power supply:	400 V 3PH+N+T
Power:	10 KW
Compressed air:	6 bar
Standard colours:	RAL 9007 + 5018
Working height:	900+/-50MM
Weight:	1500 kg

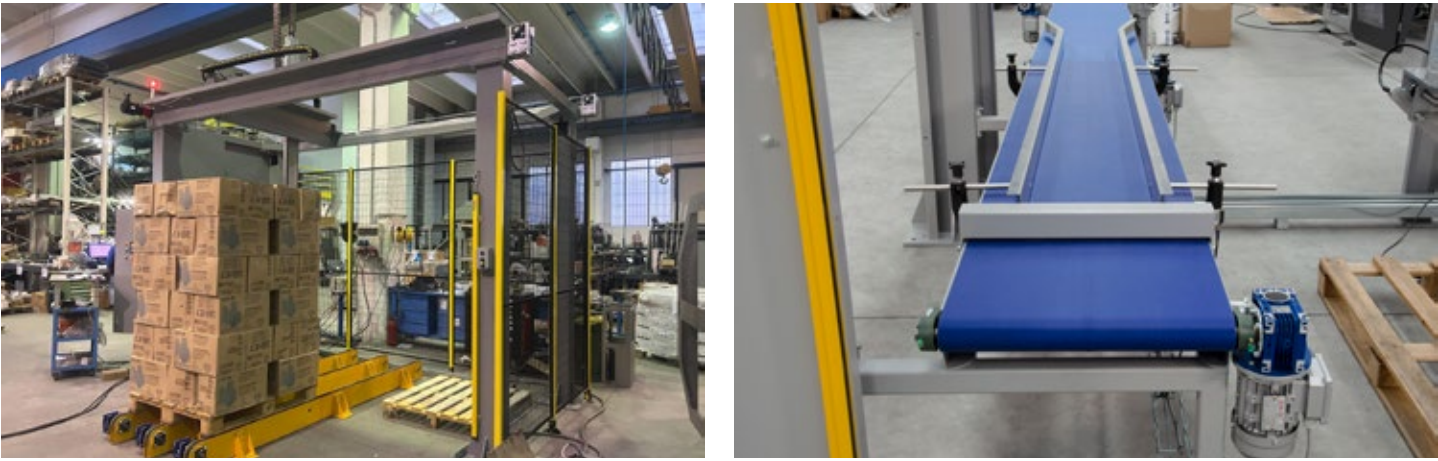
Gripping heads



Interlayer magazine and pallet magazine



Motorized roller conveyors and palletizer infeed belt



DM Pack S.r.l.

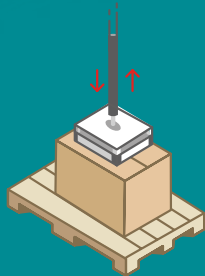
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TRON
CARTESIANO
Automatic cartesian palletizer



TRON CARTESIANO

The TRON CARTESIAN automatic gantry palletizer by DM Pack is designed to automate end-of-line operations in a simple, precise, and efficient way. The machine picks and places products onto pallets through controlled and accurate movements, improving production continuity and optimizing packaging handling.

Thanks to its compact structure and full accessibility on all sides, the system can be easily integrated into existing production lines and is suitable for companies requiring a reliable, flexible, and user-friendly solution. Its modular configuration and customizable gripping head allow it to handle different product types and pallet formats, ensuring high adaptability to production needs.

ISO-certified components and dedicated safety solutions ensure operational continuity, ease of use, and long service life.

The use of brushless motors allows an high precision in the packages positioning.

The gripping head moves along an arm that goes up and down along the main frame structure.

The palletizer is equipped with a centering system that allows it to receive products always in the same point before they are picked up and placed on the pallet; in this way, boxes are centered and their correct positioning on the pallet is guaranteed. After picking, the product will be placed on the pallet inside the structure, following the chosen palletization scheme.

OMRON safety barriers ensure safe operator access during machine operation.

Controlled by Siemens or Omron PLC. Intuitive HMI.

