



ATIS
MANIPOLATORI PNEUMATICI



COMPANY CASE STUDY

Moving 3 or more boxes the same time with
an industrial manipulator ATIS

Pneumatic Manipulator ATISmirus200 for multiple boxes

Rigid Arm Pneumatic Manipulator for Cardboard Box Handling. The rigid arm pneumatic manipulator presented here is a versatile and efficient solution for handling cardboard boxes in industrial environments. Designed to optimize loading and unloading processes, the manipulator offers precision, safety and reduced physical effort for operators.

Request: Collection of 3 taped cardboard boxes from roller conveyor and release onto pallets, managing different loading heights.

Produced by Move:

- Boxes: 3 taped cardboard boxes at a time
- Maximum Weight per Box: 26 kg
- Total Moving Weight: 78 kg (max)
- Maximum radius: 3000 mm

Grip system Optimized

The manipulator is equipped with a customized suction cup gripping system for simultaneously gripping 3 boxes side by side. It is also equipped with adjustable suction cups to adapt to the different heights of the boxes.

Pneumatic activation for a reliable and fast secure hold.

- **Movements:** Fluid and precise thanks to the pneumatic system, with the possibility of speed regulation to optimize cycle times.
- **Commands:** On two heights to maximize operator ergonomics.
- **Safety:** Integrated safety devices to prevent accidental load drops and ensure operator safety.
- **Flexibility:** Unique gripping system adaptable to different box heights reducing the need for multiple equipment.

Advantages

- It offers great flexibility in handling and positioning of boxes.
- Product protection: gripping system designed to avoid damage to boxes during handling
- Increased efficiency: Simultaneous handling of 3 boxes by a single operator with significant reduction in cycle times.
- Improved ergonomics: Reduction of physical effort on the operator

Safety

Safe and stable grip thanks to the custom-designed suction cup system!

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Ergonomics and Operator Control

Designed for comfortable and safe use by the operator:

- Pneumatic balancing: Keeps the position of the load stable once lifted, ensuring precision in movement.
- Intuitive Controls: special layout of controls to facilitate the operator's activity at different picking and placing heights.
- Industrial manipulator with rigid arms, without the use of heavy counterweights, light and easy to handle for continuous use throughout the work cycle without operator fatigue

Versatility

- **Different applications:** Suitable for various industrial applications, especially for loading and unloading from roller conveyors and palletization



Typical applications:

- Loading and unloading from production lines
- Palletization
- Storage and retrieval operations.
- Warehousing

ATIS:solutions cutting edge

In the dynamic world of manufacturing, the efficient and safe handling of complex materials such as rubber strips is a constant challenge. ATIS manipulators, a leader in ergonomic solutions for industrial handling, presents an innovative and high-performance answer: an industrial manipulator specifically designed to overcome the difficulties associated with gripping multiple boxes at the same time