

SOMIC CoboLoad

somic
Engineered to perform



SMART ROBOTICS – **SOMIC CoboLoad**

AUTONOMOUS AND PRECISE

For automated loading of the carton magazine



The intelligent robotics solution SOMIC CoboLoad – for reliable automatic magazine loading



Manual magazine loading often involves physical strain, interruptions, and process fluctuation. The SOMIC CoboLoad automates this step and ensures a continuous, uninterrupted supply of cartons to the machine for an entire pallet – without the need for human intervention.

Improved efficiency for your packaging line

With the CoboLoad, SOMIC offers an automated solution for loading magazines with cardboard blanks. The system combines state-of-the-art robotics with intelligent sensor technology to ensure a reliable, ergonomic, and efficient material flow within the packaging line.

Automating this essential process step with the SOMIC CoboLoad ensures the following benefits on an ongoing basis:

- Higher line availability
- Continuous material feed
- Improved ergonomics
- Reduced staffing requirements (e.g., during night shifts)
- Fewer manual interventions



The combination of intelligent image processing and sensor-based gripping technology enables reliable handling even with variably oriented stacks – supporting stable, efficient, and future-proof packaging lines.

Flexible integration into existing lines

The SOMIC CoboLoad can be flexibly integrated into various production layouts. It can process any type of cardboard blank:

- **Wraparound**
- **Tray**
- **Cover**

The intelligent control system allows for quick adaptation to different line speeds and production requirements.

Max. size of cardboard blank

900 mm x 800 mm

Max. number of cardboard stacks per loading cycle

15 kg

Cycle time per loading cycle

ca. 2 min.

Maximum safety during operation

With a certified safety control system (FSU), a PL-d certification, and its fully internal cable routing, the system offers maximum safety for operators and the immediate surroundings.

Please contact us

Our team will be happy to advise you on how the SOMIC CoboLoad can be used to create an optimal packaging process that is precisely tailored to your specific requirements.



Using 3D vision technology, the robot automatically detects the position of the stacks, grips them precisely, and positions them reliably in the magazine. Without the need for any manual loading of the magazine, the production line can operate with maximum stability and continuity. The SOMIC CoboLoad allows operators to focus on monitoring and performing other value-added tasks.

3D Vision Technology

- Detection of stack orientation and alignment via camera systems
- Compensation for stack tilt or offset
- Sensor-based gripper control for precise and secure placement in the magazine
- Optional automatic removal of interleaving sheets
- Optional turning device, if orientation change of the cardboard blank is required from the pallet to the magazine

Ergonomic and safe design

- Reduces physical strain on workers caused by manual lifting and repetitive movements
- Promotes a safe and ergonomic work environment

Precise handling of corrugated cardboard stacks

- The exact position of the stack and individual sheets is detected using a camera in combination with a 3D scanner
- Even small quantities of sheets can be picked up and placed precisely in the magazine

Autonomous operation

- Automatic stack detection and pickup
- Continuous processing of cardboard blanks without manual intervention
- Optical system detects the orientation and printing on the cardboard stacks

High process stability

- Reliable continuous operation for high line availability
- Precise placement of carton blanks
- Operator safety through collaboration mode (with optional stop and restart sensors upon request)

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