

High performance robotic cartoning system

The most flexible and powerful modular system to erect, fill and close display folding boxes for higher speeds of up to 80 boxes per minute. The system is used for all those applications that require precise and flexible grouping and placing of products into display folding boxes, especially in the confectionery and food industries. Flat cardboard blanks are erected, glued and folded. The boxes can be filled with most different accumulatable and non-accumulatable products.



Technical Features

Functioning:

- Folding module: Take-out of flat carton blanks from the blank magazine by means of vacuum suckers. Controlled by upper and lower die, blank is pushed through the folding box. In this process side flaps are erecting and gluing. Transport of empty boxes to the filling area by means of vacuum shuttles. Grouping of products with a race track system.
- Filling module: 2-axis-robot picks layers of products out of the transport cavities. Generating of the required packaging formation.
- Closing module: servo-driven closing-head for several boxes. Discharge of the filled boxes for following packaging

Design features:

- Flexible, powerful cartoning system
- Product-related infeed
- Servo driven race track with transport cavities
- Carton erecting module with swappable blanks magazine, folding box, servo driven transport and hot melt applicator
- Filling module: servo driven 2-axis-robot. Sucking-head and suction cups designed according to application
- Closing module with servo drive for various closing types
- Servo driven box transports (shuttles)

Special advantages:

- Different box designs, perfect packaging quality
- Use of flat carton blanks for inexpensive cartoning
- Most flexible, quick changeable folding and filling modules
- High product infeed performance with up to 600 products/min.
- High hygiene standard
- Quick cleaning and maintenance through optimum accessibility from all sides
- Space-saving system by integrated "all-in-one" design
- Most attractive price-performance ratio

LoeschPack environmentally-friendly machine series:

- Space-saving, compact design
- Use of consumption-optimised and bio-degradable packaging materials
- Lowest-possible energy consumption for sustainable operation
- Carbon-neutral machine with minimal energy consumption
- Consumption offset by natural regeneration initiatives

