

SOFTWARE

Optimised software processes

HARDWARE

Individual machine components

HARDWARE + SOFTWARE + CONTROL MODELS HIGH-TECH MACHINERY

COMPONENTS FOR PACKAGING MACHINES

CONTROL MODELS

Efficient drive and control techniques through the use of optical sensors, communicative packaging and modular interfaces

INDUSTRY 4.0

SMART FACTORY

70% LESS MATERIAL ENERGY USE

Innovative hard and software and drive technology controlled by sensors and microprocessors

70% LESS NOISE

Use of low-noise machinery with greater energy efficiency

15%

SPEED 45 M

PER MINUTE

Conveyor belts with x-ray inspection system for liquid food detect metal, plastic, glass, stone and hard rubber impurities.

BOTTLING SYSTEMS

80,000 BOTTLES PER HOUR

Automated bottling with electronic vibration diagnosis for a smooth production process. Detection of wear limit on engine-transmission block through the use of sensors.

CLEANING SYSTEMS

63,000 GLASS BOTTLES PER HOUR

Cleaning and disinfection machines with immersion baths, several spray zones and a runtime of 15 to 20 minutes at a caustic soda temperature of approx. 80°C for glass and approx. 54°C for PET bottles.

Cleaning machines for PET bottles can manage up to 42,000 per hour.

State-of-the-art servo drive systems with load sharing ensure that the system runs gently and efficiently.

Fast communication between drive and control components through coordinated Ethernet-based bus systems.

2,400 PER HOUR

Labelling of bottles under strict quality control, using camera systems with 360° panoramic viewing

PACKAGING

2,300 SWEETS PER MINUTE

Continuous operation of the production line, placing a wide variety of product shapes and sizes into matching final packaging.

PICK-AND-PLACE ENGINEERING

1,500 COFFEE PADS PER MINUTE

PACKAGING ROBOTS

2,000 BISCUITS PER MINUTE

The use of camera systems for homogeneous products ensures smooth procedures in the filling of plastic trays, blisters and flowpack bags.

VISION SYSTEMS

12.5 MM CAMERA LENSES

Precise and automatic detection of images and product positions on the conveyor belt

SERVO DRIVES

30% LESS

KINETIC ENERGY

Final packaging of about 1,000 units per minute – the servo-driven oblong bag filler (up to 110 strokes) fills and closes two oblong bags per stroke in parallel (up to 222 tubes per minute).

BANNER ENGINEERING

PHOTO DETECTOR

Detection of boxes, triggered by two detection systems: LED and 2-Mpixel – thus reaching an input speed of over 3,000 rpm.

700 BLISTERS

500 BOXES PER MINUTE

Blister Express Center 700 works in combination: three lines can be used simultaneously, allowing two output categories.

TRANSPORTATION OF GOODS

58 METRES PER MINUTE

Use of chain conveyors and a tray conveyor system