

COMPANY PROFILE

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BL Mediterraneo

BL Mediterraneo

1980, December - **BL** is founded in the heart of the Packaging Valley, introducing its first FFS, Form, Fill & Seal machines on the market. The **APTA** series became one of the first FFS machinery manufactured in Italy.

1989 - The **COMPACTA** series, with tubular film, is the new technological improvement. This lead to a total redesign the concept of traditional packaging by adopting the pendulum bags transportation system.

1994 - **BL**'s own designed weighing systems starts being manufactured.

1996 - The **CONCEPT** scale is developed, it's the first revolutionary patented servo-driven net weighing system on the market.

1997 - The palletizer division is established, to improve customer support by supplying complete bagging line solutions.

1998 - The engineering division is established, to fulfill requirements coming from EPC contractors.

2006 - CAM, historical worldwide leader in packaging systems, acquires **BL** to diversify its market. The new ownership leads **BL** to a large scale, standardized industrial production.

2009 - Thanks to CAM synergy, a new range of palletizers suitable for boxes, bins, bundles and tailored solutions are developed.

2011 - Robots palletizers increase **BL**'s portfolio.

2013 - **BL**'s Open Mouth solutions is introduced.

2018 - Fully automatic big bag (FIBC) filling machine with bags on reel are now available.

Today - 40 years of experience later, **BL** ensures prompt responses to its partner's requests, either being End Users, OEM Distributors or System Integrators, each one with its own specific exigences and target to achieve. BL is the primary partner supplier of the most respected engineering companies.



Engineering and Sales Division

850 sqm

Via Caduti di Cefalonia 10, 40061 Minerbio (BO), Italy
Tel. +39 051 6619300
Mail: info@bl-bagline.it
Web: www.bl-bagline.it





Bagging Division

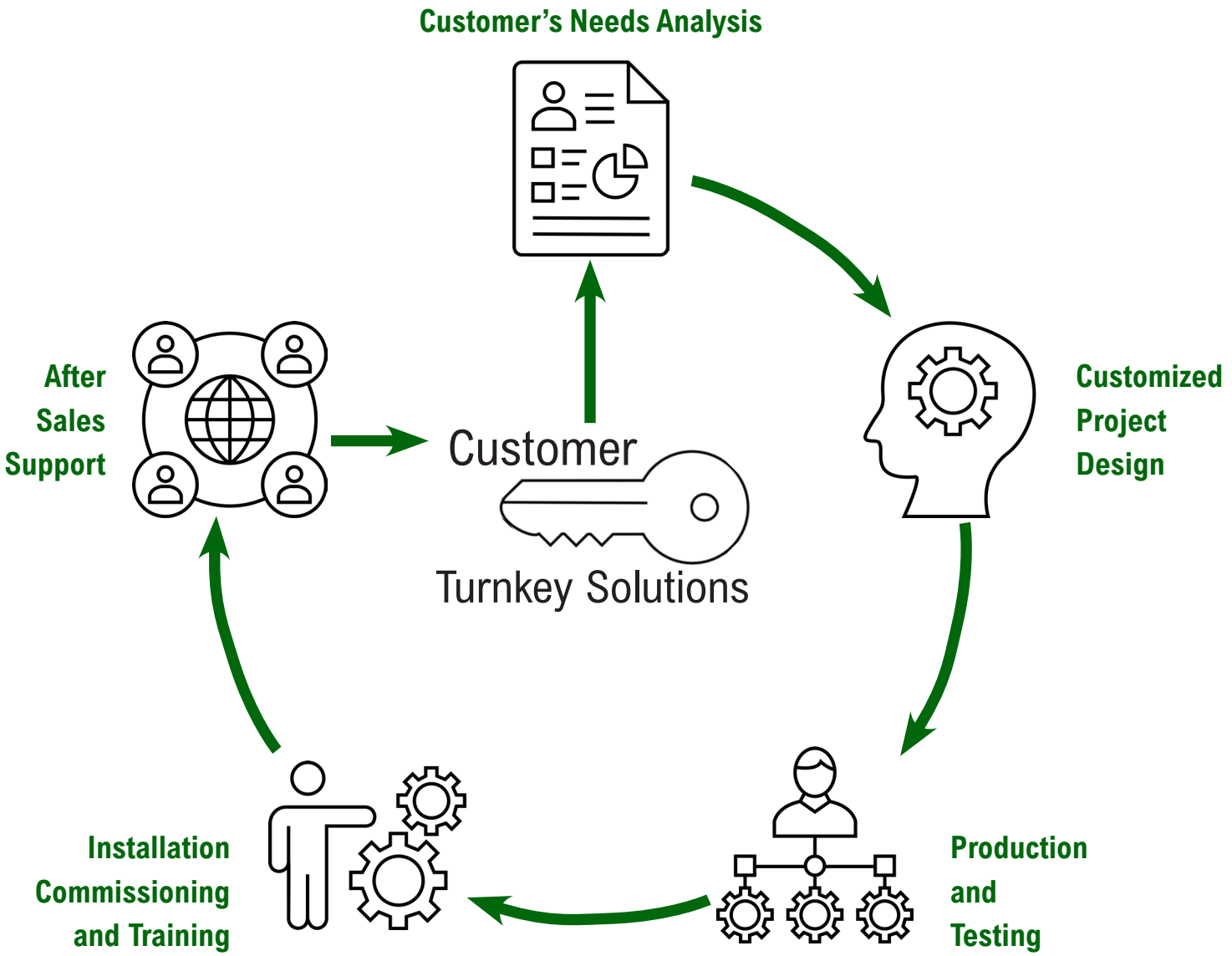
2300 sqm

Via Ronchi Inferiore 30/b, 40061 Minerbio (BO), Italy
Tel. +39 051 6619300

Palletizing Division

6082 sqm

Via Don Milani 21, 43012 Fontanellato fraz. Sanguinaro (PR), Italy
Tel. +39 0521 1944410


Customer's Needs Analysis
Customized Project Design
Production and Testing
Installation Commissioning and Training
After Sales Support
Customer
Turnkey Solutions

Bagging Bulk Materials



Petrochemicals



Building materials



Pet food



Chemicals



Wooden pellet



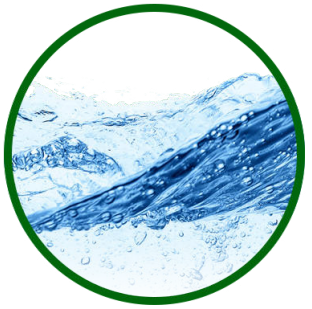
Alimentary



Fertilizers



Salt



Liquids

For Bags

The net weighing scales series include:

The **CONCEPT** type

Electronic scale with servo-driven valve, for granular products

Up to 2400 cycle/hour

Very high accuracy



The **BLS** type

Electronic double screw scale for powdery products

Up to 1000 cycle/hour

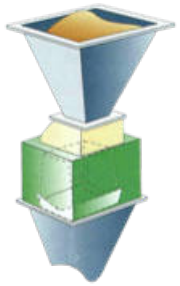


The **BLG** type

Electronic scale with pneumatic catch valve, for granular products

Up to 1200 cycle/hour

Very high accuracy





The **BLCV** type

Electronic vibratory scale for flake shaped products

Up to 500 cycle/hour

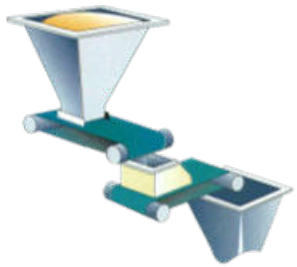
The **BLN** type

Electronic belt scale, for fine and humidity products

Up to 1000 cycle/hour

Very high accuracy





The **BLNN** type

Electronic belt on belt scale for fine, humid and low flowing products

Up to 600 cycle/hour

Very high accuracy

For Big Bags, Octabins and Containers

BLG-BN HS is a weighing system with high capacity and accuracy for big volumes of product.

Up to 108 m^3/hour

Optionals

- Dust collector and filter
- Integreted gravity metal detector
- Mobile version including:
  - › Platform on wheels or rails and lowered feed for stationary position
  - › Telescopic connection joint to silo
  - › Telescopic feeding sprout for truck/train loading



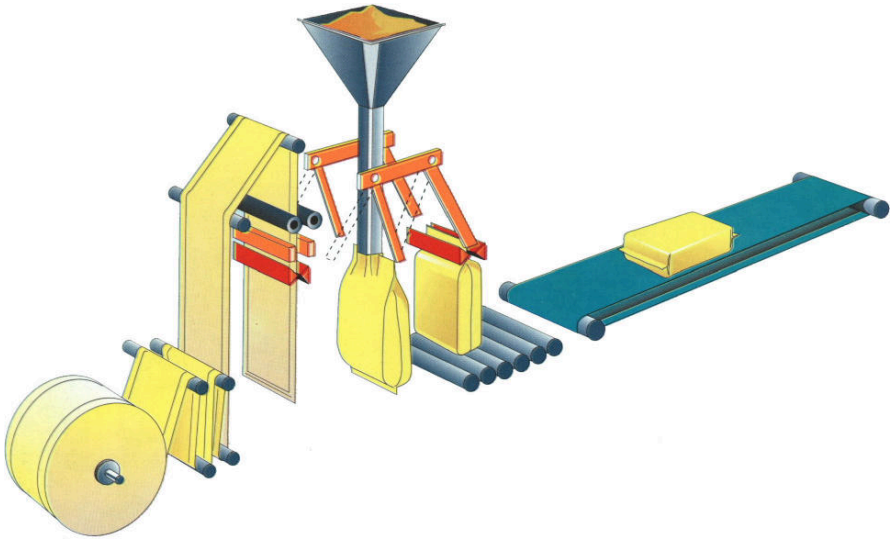
FFS COMPACTA

The **COMPACTA** bagging series represent the state of the art FFS machine with the capacity up to 2800 bags/hour



Key features

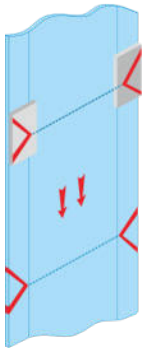
- Smart modular design
- Highly configurable and customizable
- Durable and reliable
- Easy access
- User friendly operation and maintenance
- Top notch component list
- Touch panel HMI with synoptic and trouble shooting
- Automatic reel change device upon request
- Tele-service device for remote assistance upon request



FFS Bags advantages

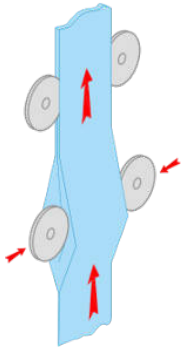
- Cost effective
- Heavy-duty and highly protective
- Suitable for various product types
- Available in reels for an high production autonomy
- Gusseted type for better squared shape to allow a perfect palletization

Optionals



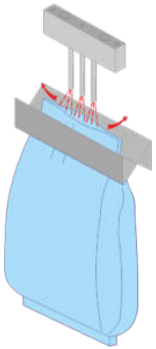
Corner Sealers “K”

- Bag stability
- Bag Strengthening
- Ensure 100% bag is emptied



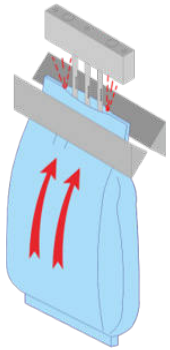
In-line gusseting unit

- Double reel duration
- Operation cost reduction
- Warehouse smaller room required
- Transport cost reduction



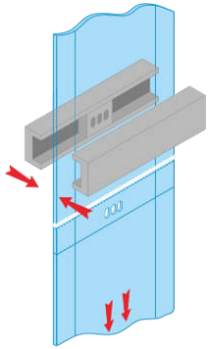
Top seal cleaning system

- Allow to run with dusty materials



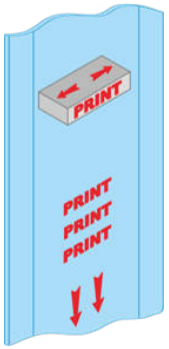
Air evacuation system

- Vacuum pack bags (no pin holes)
- Allow to run hygroscopic products



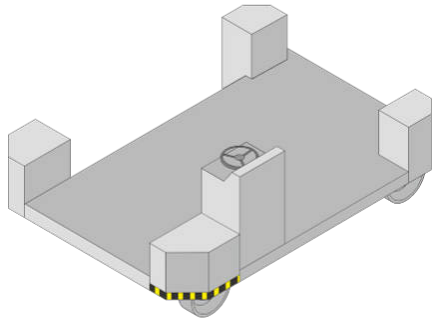
Die-cut handle device

- Preform a die-cut handle, for retails product up to 10 Kg bag



In-line thermo transfer printer

- Allow to print A5 size thermo-label in each bag
- Label template and data are transferable locally and via serial or Ethernet communication



FFS movable platform

- Machine can be easily moved under different silos to pack different products

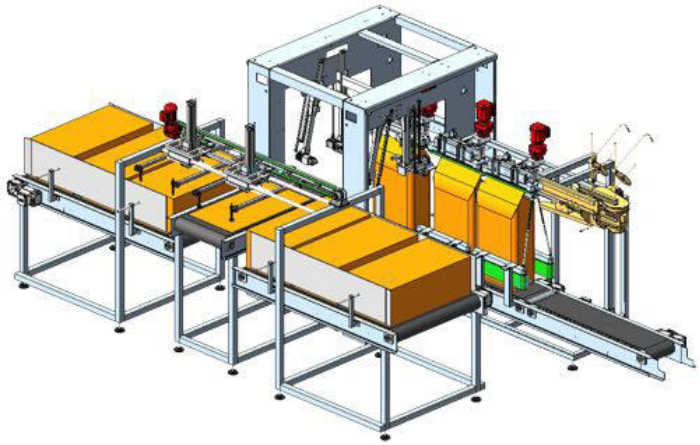
Open Mouth Bagging Machine SELECTA

The **SELECTA** bagging machine is a compact, fully automatic packaging system. Its design allows the bagging of powders and granules into pre-formed open-mouth bags. Up to 1200 bags/hour.

Key features

- Smart modular design
- Highly configurable and customizable
- Automated bag format switching
- High feeding capacity bags magazine
- Durable and reliable
- Easy access
- User friendly operation and maintenance
- Top notch component list
- Touch panel HMI with synoptic and trouble shooting
- Tele-service device for remote assistance upon request





Open Mouth Bagging Machine OMS

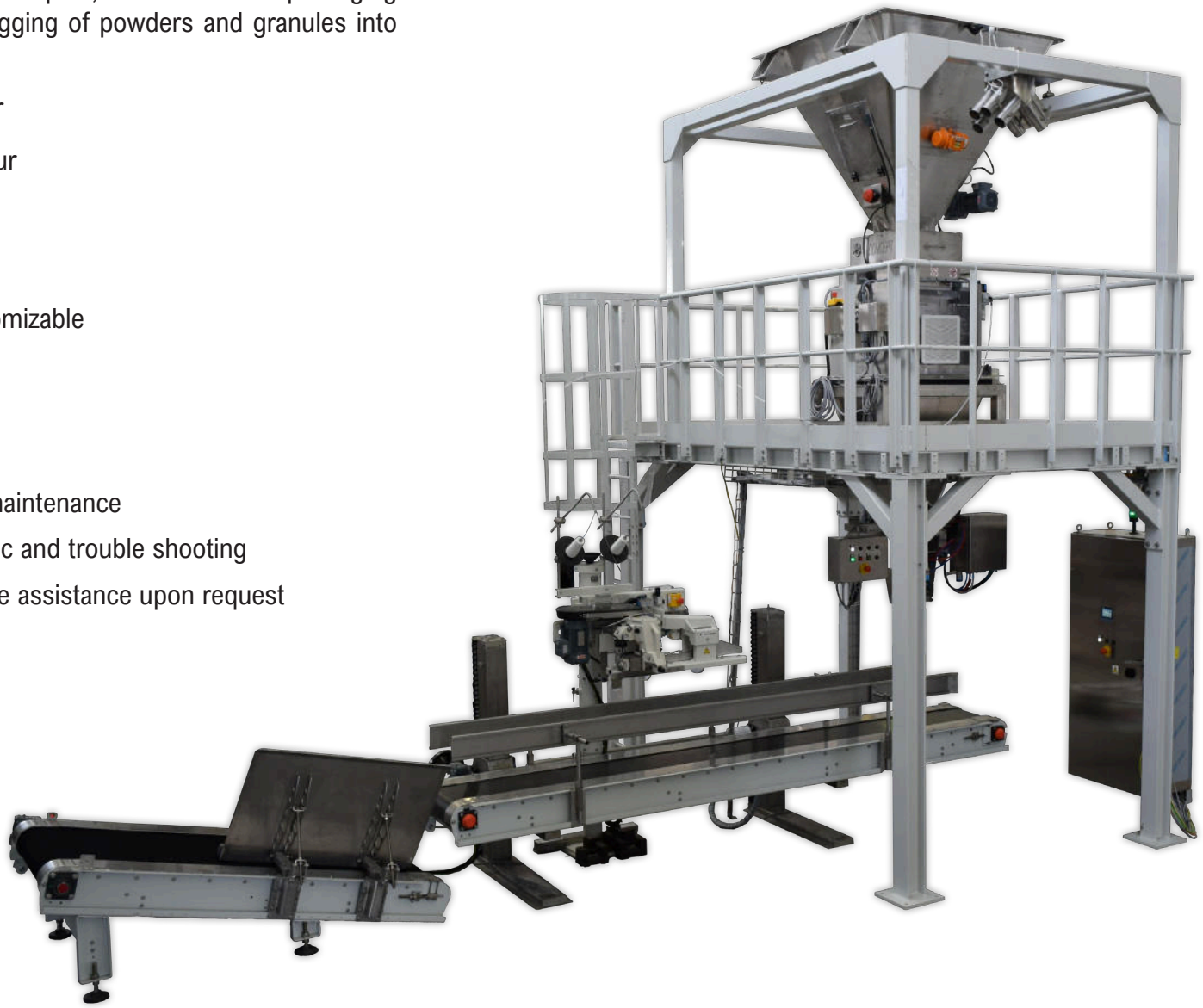
The **OMS** bagging machine is a compact, semi automatic packaging system. Its design allows the bagging of powders and granules into pre-formed open-mouth bags.

Net weight: up to 1200 bags/hour

Gross weight: up to 400 bags/hour

Key features

- Smart modular design
- Highly configurable and customizable
- Cost effective solution
- Durable and reliable
- Easy access
- User friendly operation and maintenance
- Touch panel HMI with synoptic and trouble shooting
- Tele-service device for remote assistance upon request



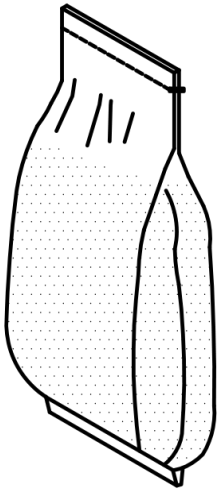
Optionals

- Sewing machine
  - › Single thread
  - › Double thread
  - › Crepe paper
  - › Double head on column
- Sealing machine
- Folding
- De-aeration pad
- In-line bag turning device
- 90° bag turning device

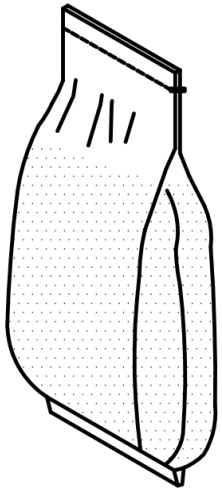


OM Bag Closing Types

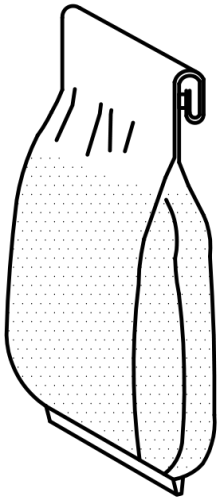
Simple Sewing



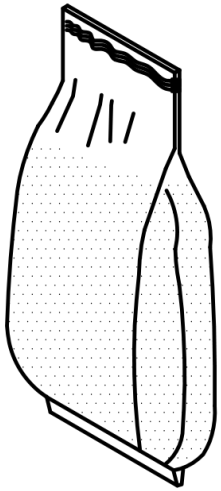
Sewing + Sealing



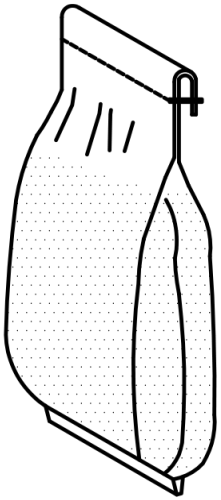
Hot Glue Sewing



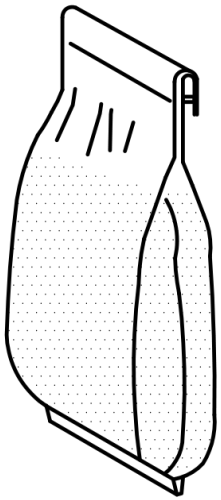
Hot Bars Sealing



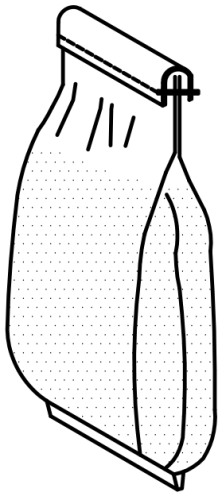
Foldes Sewing



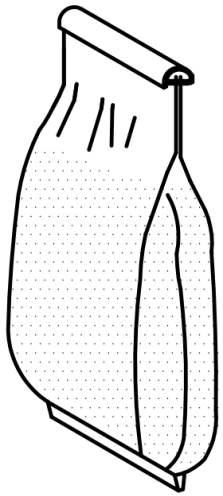
Pinch Top Closing



Crepe Paper Sewing



Hot and Sticker Application



Big Bag and Octabin Filling Machine FORTIS

FORTIS is a semi automatic filling machine suitable for Big Bag (FIBC) and Octabin, net or gross weight system.

250 kg to 1250 kg per bag

Up to 120 cycles/hour

Highly configurable

- 1 to 5 loops type bag
- Multiformat
- Big Bag (FIBC) and Octabin by the same machine
- With or without pallets by the same machine
- Vibration/settling system
- Stacking of Big Bags (FIBC)
- Mouth sleeve automatic sealing
- Monoloop hanging and tensioning system
- Double inclinable output conveyor for track loading by crane
- Available on mobile platform



Big Bag Filling Machine FORTIS HS

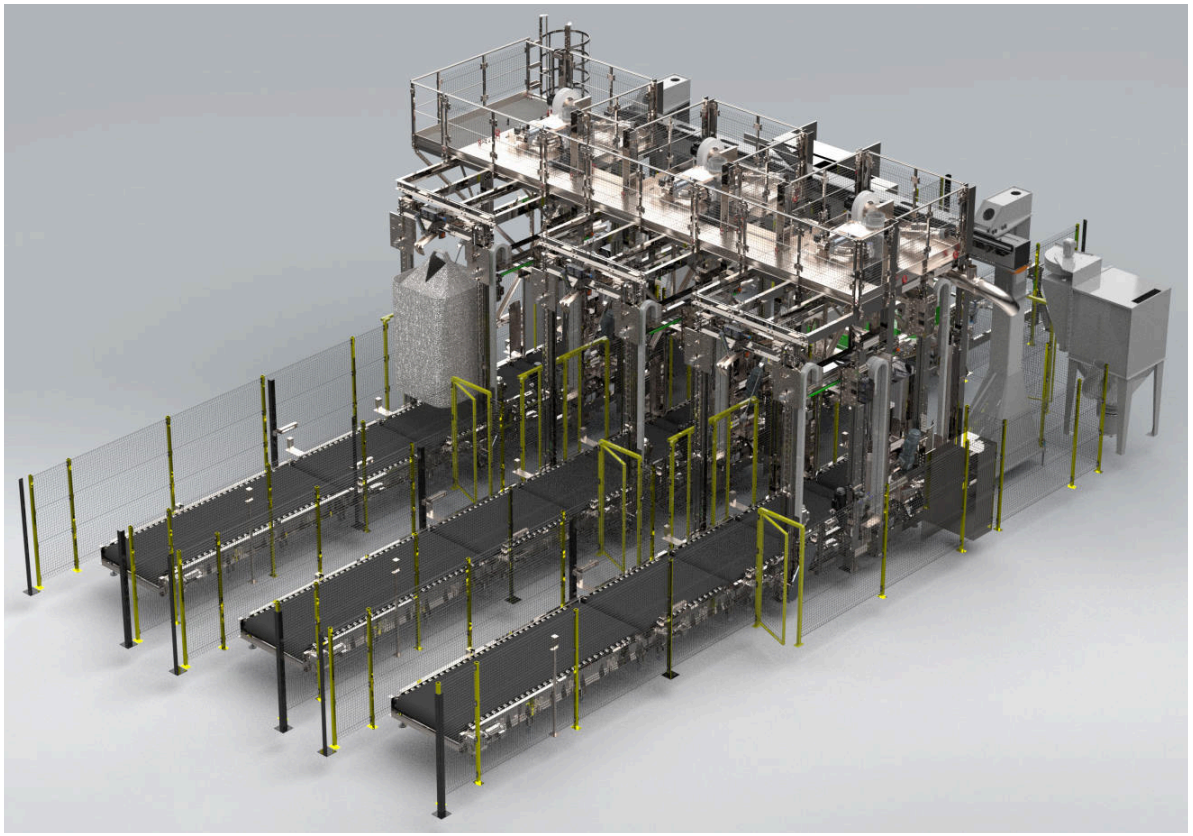
FORTIS HS is a semi and fully automatic filling machine suitable for Big Bag (FIBC), net or gross weight system with three stations (filling, sealing and tensioning).

250 kg to 1250 kg per bag

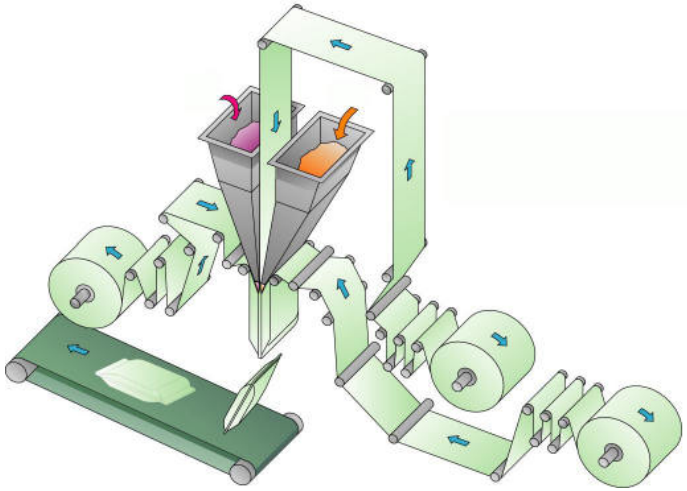
Up to 180 cycles/hour

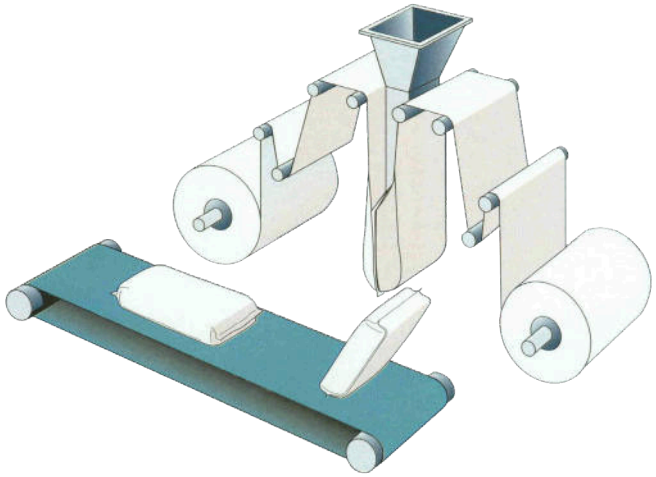
Highly configurable

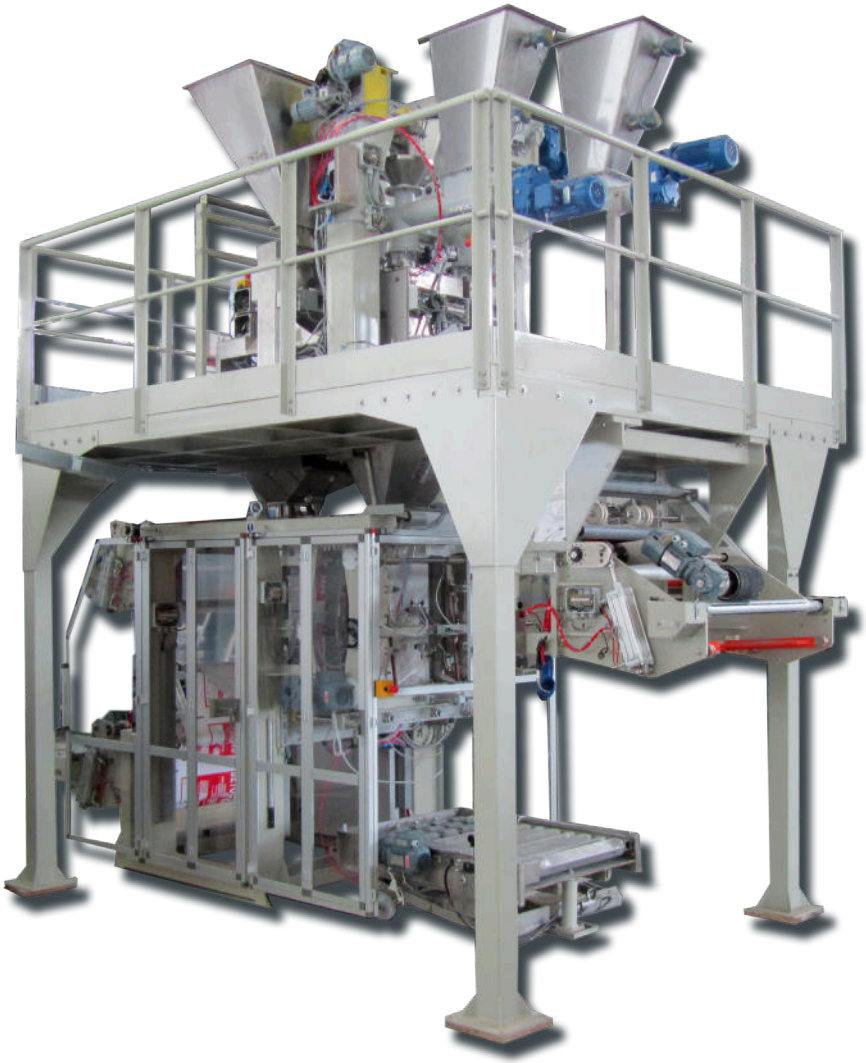
- Empty Big Bag unwinding with automatic bags positioning
- Automatic Big Bag reel change device
- Monoloop
- Multiformat
- With or without pallets by the same machine
- Vibration/settling system
- Stacking of Big Bags (FIBC)
- Double inclinable output conveyor for track loading by crane



APTA is an automatic filling machine for building materials: double bags and putty-lime





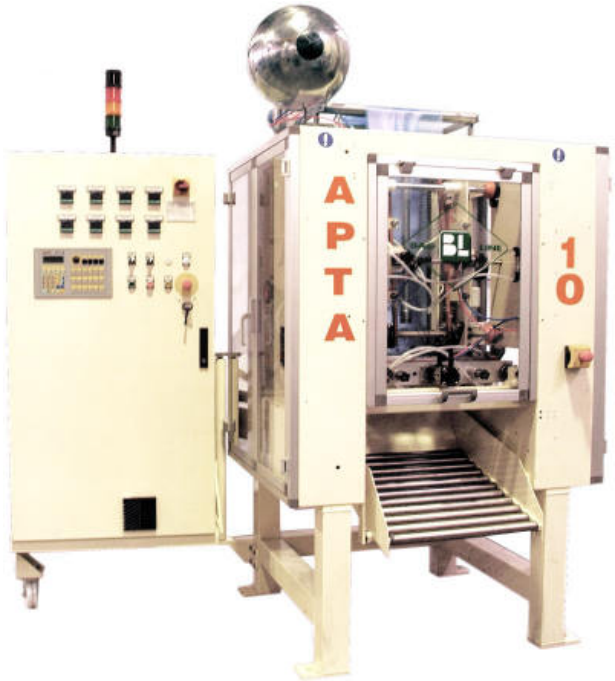


FFS AQUA-BAG

AQUA-BAG is a FFS bagging machine for water and other no-sparkling liquids from 2 to 15 liters, up to 500 bags/hour.

Optionals

- Bag mark system
- Water purification treatment
- Die-cut handle design
- Suitable for fully stand alone container installation, with compressed air and power supply

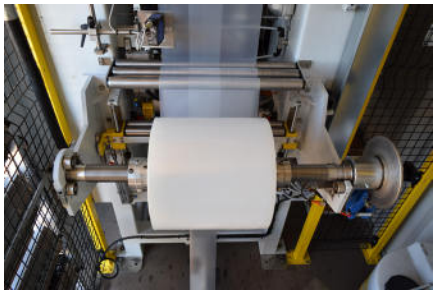
















High Feed Palletizer HF

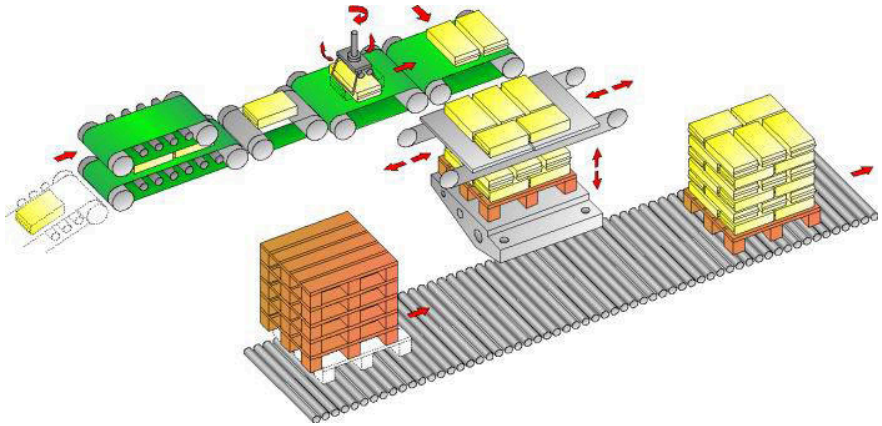
The **HF palletizers** line works with mobile pallet and bag loaded from the top for bags, bundles and boxes.

Up to 4000 cycles/hour

Features

- Empty pallet dispenser
- Slip sheet dispenser on empty, intermediate or finished pallet
- Film sheet dispenser
- Stapler device for slip or film sheet
- Empty pallet centering device
- Bag settling with press and/or square roller conveyor
- Glue applicator
- Single or double servo driven bag turning device
- Single or double preforming bags pusher
- Motorized layers dams
- Low friction or aerated stripping plates





Low Feed Palletizer LF

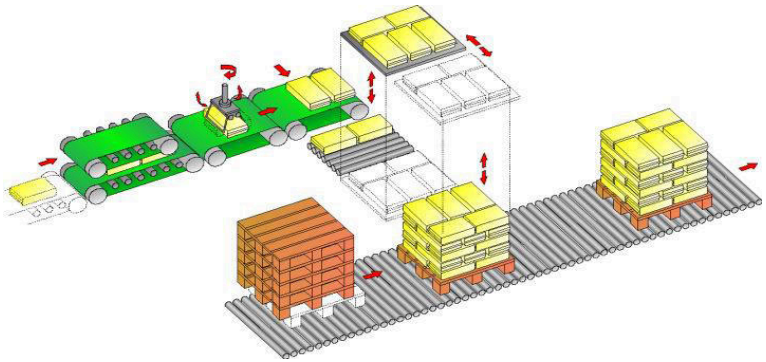
The **LF palletizers** line works with mobile pallet and bag loaded from the bottom for bags, bundles and boxes.

Up to 1200 cycles/hour

Features

- Empty pallet dispenser
- Slip sheet dispenser on empty, intermediate or finished pallet
- Film sheet dispenser
- Stapler device for slip or film sheet
- Empty pallet centering device
- Bag settling with press and/or square roller conveyor
- Glue applicator
- Servo driven bag turning device
- Preforming bags pusher
- Motorized layers dams
- Low friction stripping plates





Robotic Arm Palletizer

Robotic Arm Palletizer for bags, boxes, bundles and drums.

Up to 1200 cycles/hour with single or multiple picking gripper, as described below:

Bags: up to 1800 bags/hour

Boxes or bundle: up to 4000 boxes or bundles/hour

Features

- Multiple product lines handling
- Automatic format switching
- Integrated empty pallet dispensing into gripper
- Integrated slip sheet applicator on empty, intermediate or top of pallet
- Standalone empty pallet dispenser
- Standalone slip sheet dispenser on empty pallet
- Standalone film sheet applicator with integrated stapler
- Empty pallet centering device
- Bag settling with press and/or square roller conveyor
- Glue applicator
- Servo driven bag turning device
- Stripping plate and layer dams module



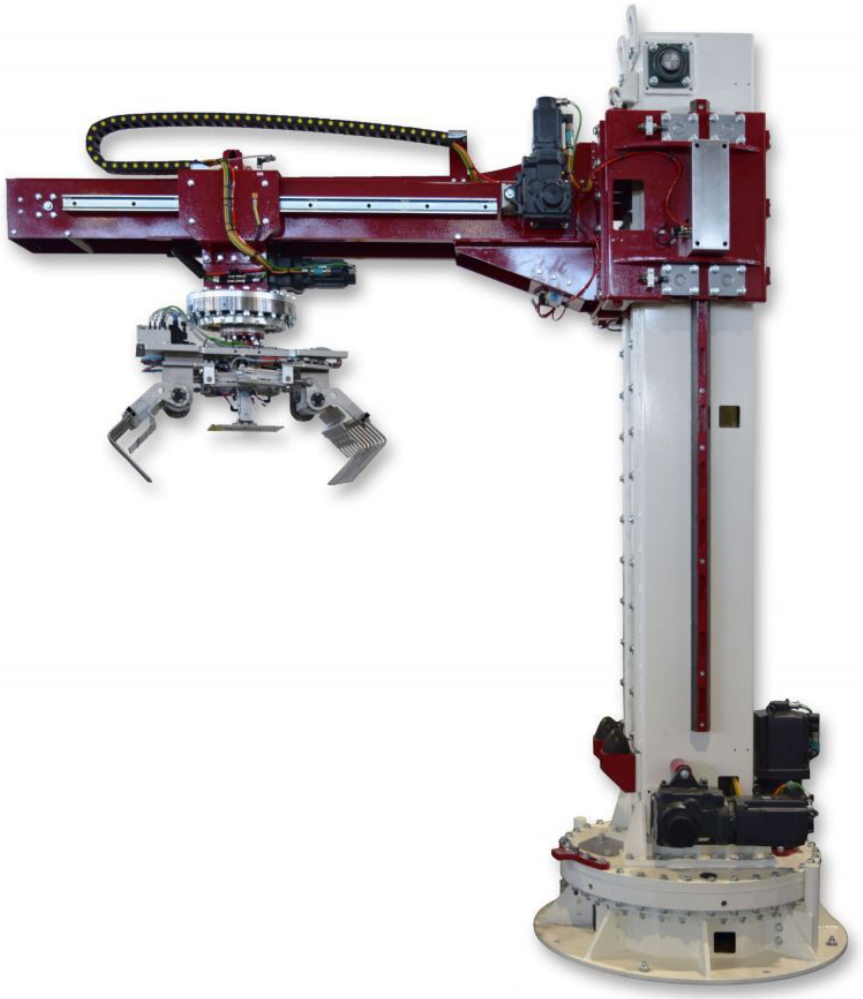
Robotic Cartesian Palletizer

Robotic Cartesian Palletizer for bags, boxes, bundles and drums.

Up to 500 cycles/hour with single or multiple picking gripper, as described below:

Bags: up to 500 bags/hour

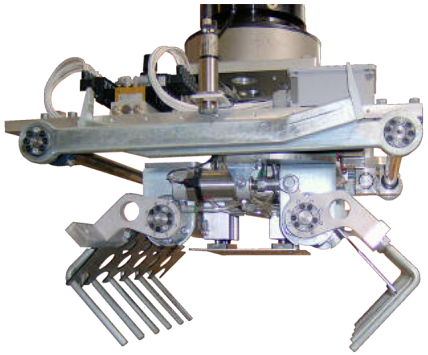
Boxes or bundle: up to 2000 boxes or bundles/hour



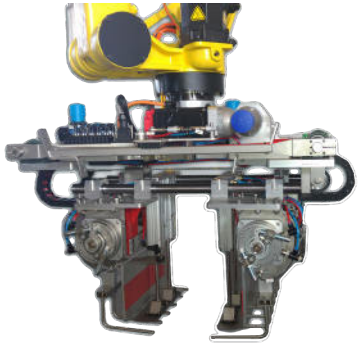
Features

- Multiple product lines handling
- Automatic format switching
- Integrated empty pallet dispensing into gripper
- Integrated slip sheet applicator on empty, intermediate or top of pallet
- Standalone empty pallet dispenser
- Standalone slip sheet dispenser on empty pallet
- Standalone film sheet applicator with integrated stapler
- Empty pallet centering device
- Bag settling with press and/or square roller conveyor
- Glue applicator
- Servo driven bag turning device
- Stripping plate and layer dams module

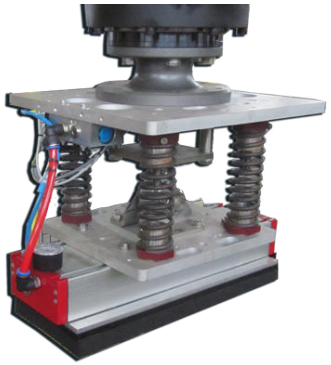
Robot grippers



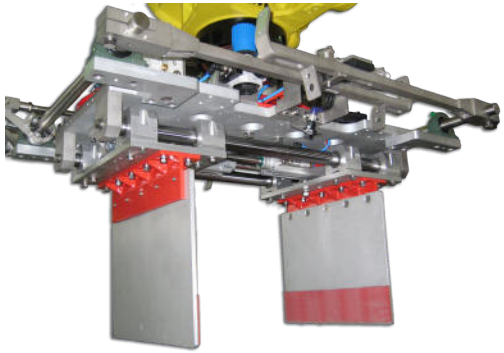
Single bag pick gripper



Gripper for bags and bundles



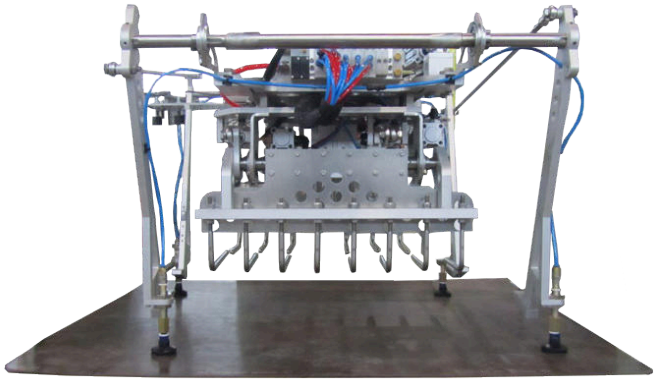
Suction cups gripper for bundles and boxes



Gripper for boxes



Multiple bags pick gripper



Sheet applicator for robot gripper



Empty pallet picking and positioning system

Rotary Arm or Turning Table Machine

A high performance wrapping machine. It's perfectly reliable and protects the load from any weather conditions.

- High quality components
- Adjustable arm rotating speed and acceleration ramp
- Number of spire pre-settable
- Automatic pallet height scan
- Reel end check
- Top cover and corner protection
- Mechanical wrap film pre-stretch
- Hem sealer
- Electronic wrap film pre-stretch with frequency driver
- Special execution for aggressive products

The wrapper places a film top sheet over the pallet during the wrapping in order to give hermetic protection to the pallet load.

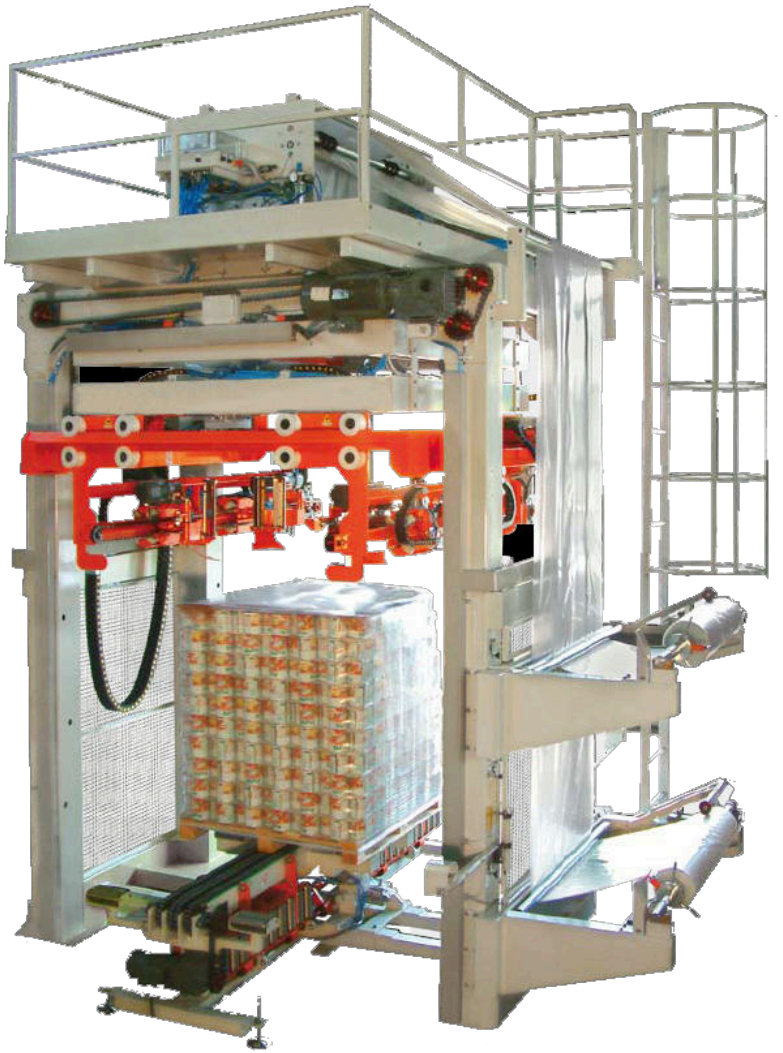




Stretch and Shrink Hooding Machine

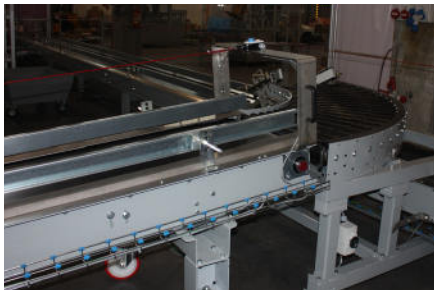
Stretch and Shrink hooding machine, suitable for any kind of application and pallet type.





Conveyors and Accessories

- Belt, Roller or Chain Conveyor
- Broken Bag Detector
- Check Weigher Conveyor
- Metal Detector
- Ink-jet Printer
- Off Specs Bag Marking and Rejecting System
- Goods Diverter System
- Thermal Transfer Printer
- Turning Table
- Shuttle Conveyor
- Orthogonal Diverter
- Pallet Lifting
- Pallet Labeler
- Pallet Press







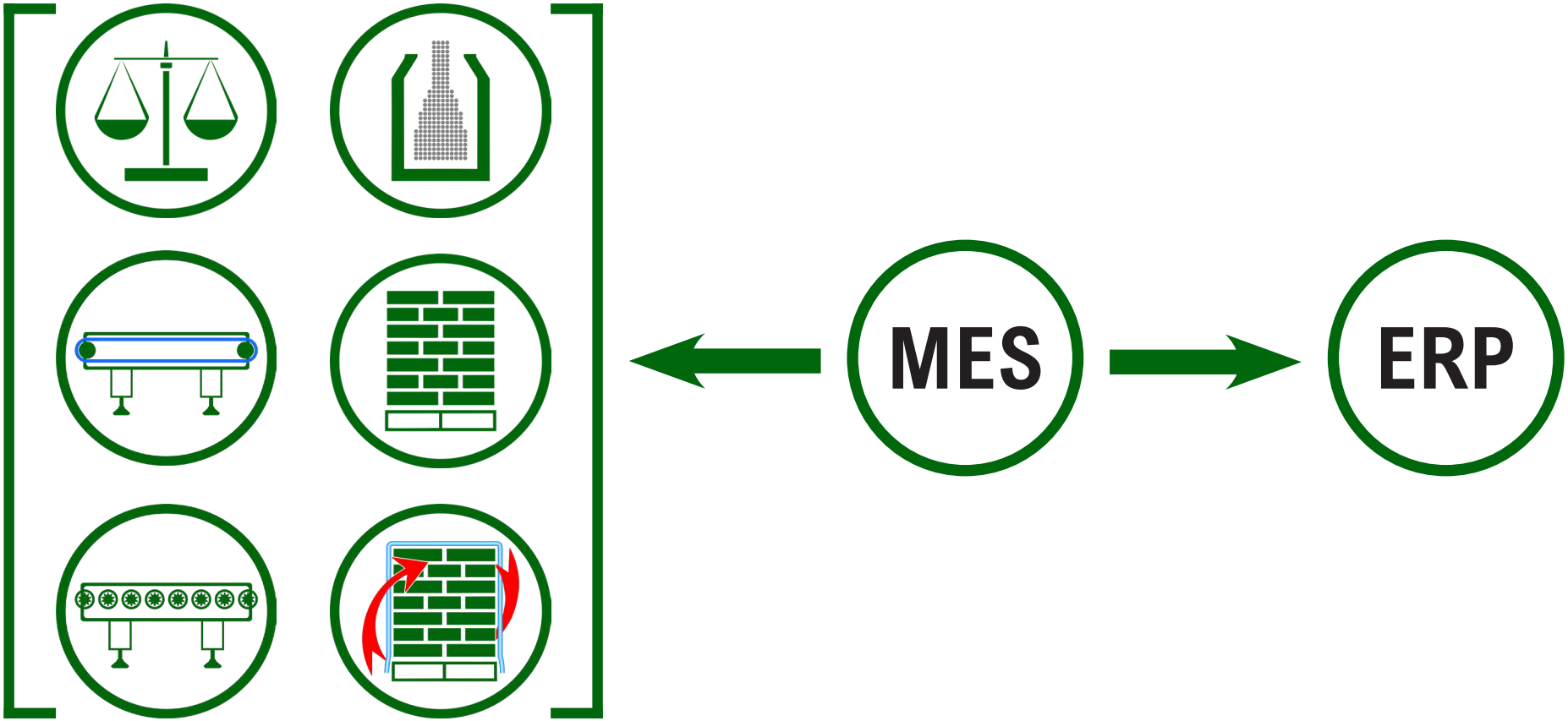



SCADA for exchanging data with MES

We provide data such as:

- Machine and production status
- Sensors signal and alarm exchange
- Counters

More data will be made available upon customer's request



After Sales

Remote access gateway and software is offered to reduce equipment downtime and intervention costs. Customers will remotely control their own HMI's for plant production monitoring

- Troubleshoot and program PLCs remotely
- Remotely view and control your HMIs
- Connect to a web camera for assistance
- Support field technicians for commissioning





Industry 4.0

Why BL:

- **We understand your product, your environment and your needs** - We provide equipment to meet your requirements
- **We have the latest technology** - Our policy of continual development grants you the benefits of the most up to date technology
- **Our tailor made solutions** - Every machine is built to order, giving you a system which meets your personal requirements
- **We help you get it right** - A new packing system is part of a successful production strategy, to meet customer's demands
- **Our experience** - A 40-years-old expertise with more than 1500 systems installed all over the world
- **Our Service & Support** - Spare parts and service available from our local partners



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