

# **BL** Mediterraneo

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## **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

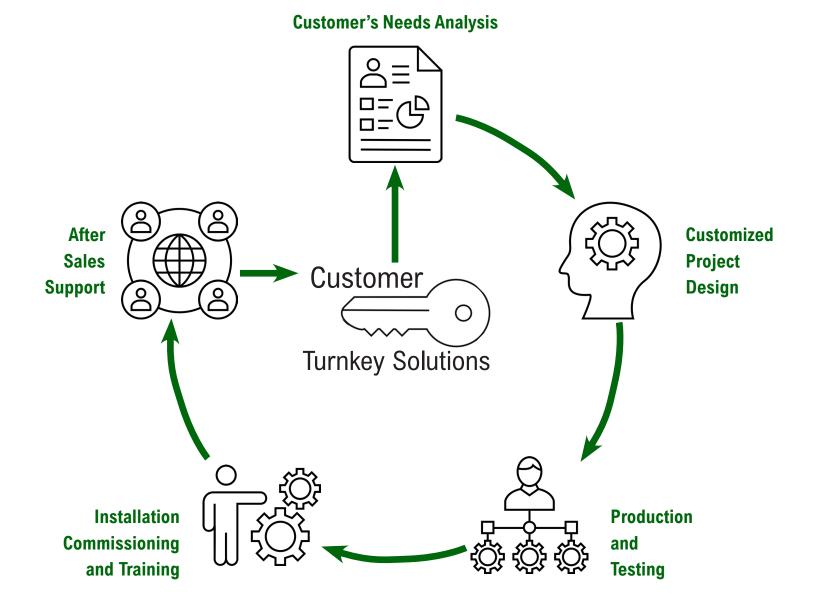


## **Palletizing Division**

6082 sqm

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









Petrochemicals



Chemicals



Fertilizers



**Building materials** 



Wooden pellet



Salt



Pet food



Alimentary



Liquids



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

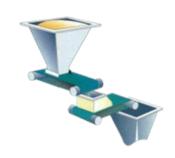




The **BLCV** type Electronic vibratory scale for flake shaped products Up to 500 cycle/hour

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<sup>3</sup>/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

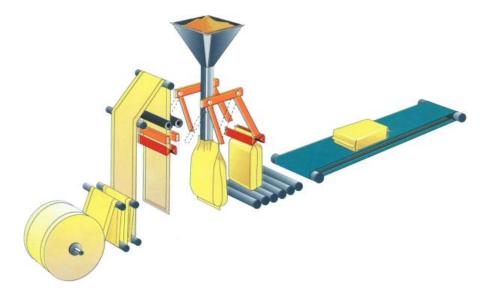
#### **Key features**

- · 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

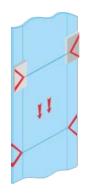






# **Bagging Systems**

## **Optionals**



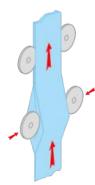
#### Corner Sealers "K"

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



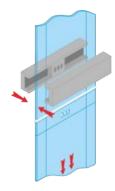
### Air evacuation system

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



### In-line gusseting unit

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



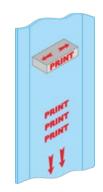
#### Die-cut handle device

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



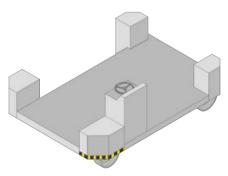
#### Top seal cleaning system

Allow to run with dusty materials



#### 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



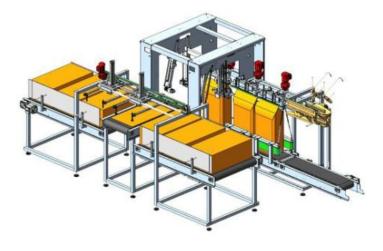
# **Open Mouth Bagging Machine SELECTA**

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





# **Open Mouth Bagging Machine**

# **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

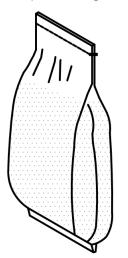




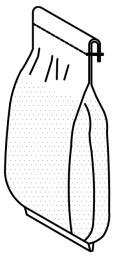
# **Bagging Systems**

# **OM Bag Closing Types**

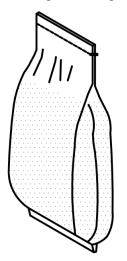
Simple Sewing



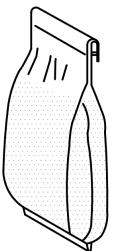
Foldes Sewing



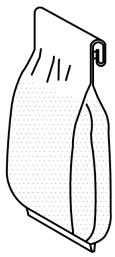
Sewing + Sealing



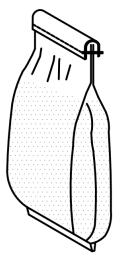
Pinch Top Closing



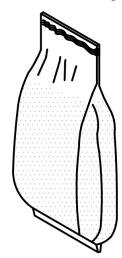
Hot Glue Sewing



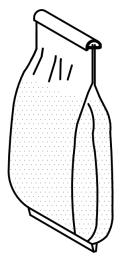
Crepe Paper Sewing



Hot Bars Sealing



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).

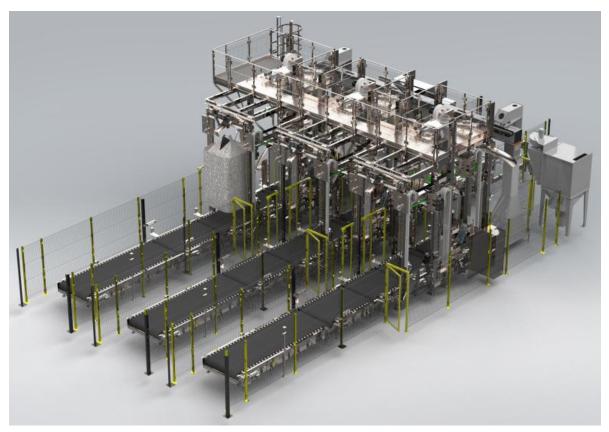
250 kg to 1250 kg per bag

Up to 180 cycles/hour

## **Highly configurable**

• Empty Big Bag unwinding with automatic bags positioning

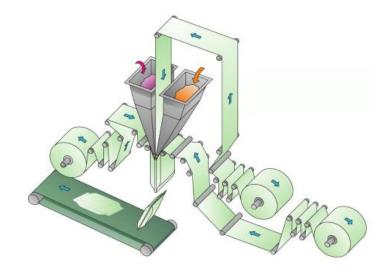
- · Automatic Big Bag reel change device
- Monoloop
- Multiformat
- · With or without pallets by the same machine
- · Vibration/settling system
- Stacking of Big Bags (FIBC)
- Double inclinable output conveyor for track loading by crane

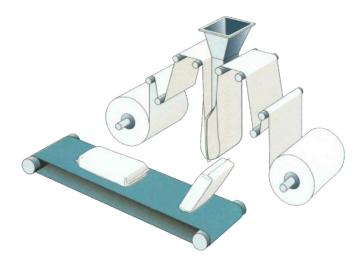




**Bagging Systems** 

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









**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



















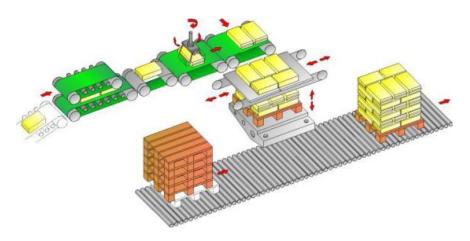
# **High Feed Palletizer HF**

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

Up to 4000 cycles/hour

- · 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

- · 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

- · 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

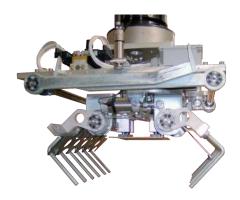
Boxes or bundle: up to 2000 boxes or bundles/hour

- · 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**



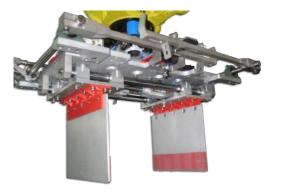
Single bag pick gripper



Gripper for bags and bundles



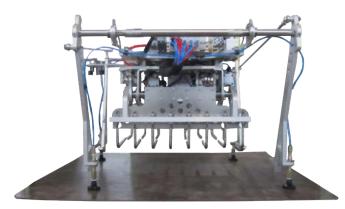
Suction cups gripper for bundles and boxes



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

















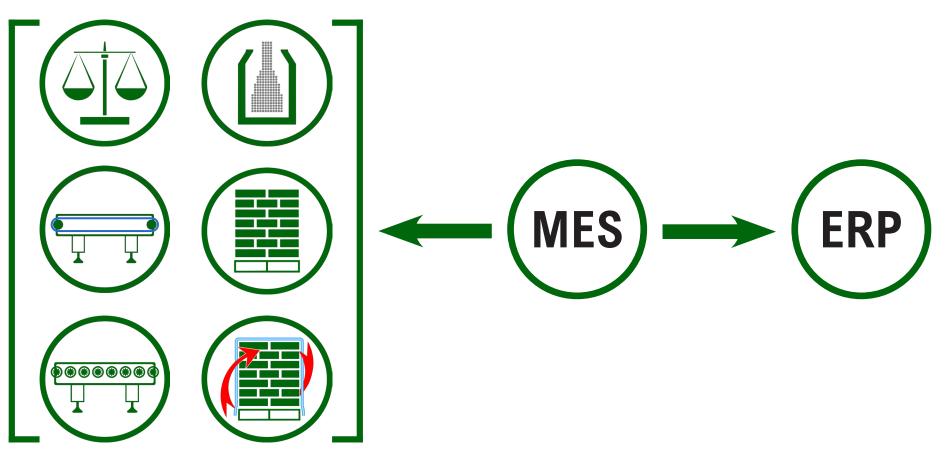


# **SCADA for exchanging data with MES**

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





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







- 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







## **B.L. Mediterraneo S.r.l.**

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