



BM-364

CARTON SLEEVE WRAPPING MACHINE



Technical overview

The practical sleeve multipack, thanks to the efficient closure by means of “hot-melt” glue, results in a particularly strong and elegant pack.

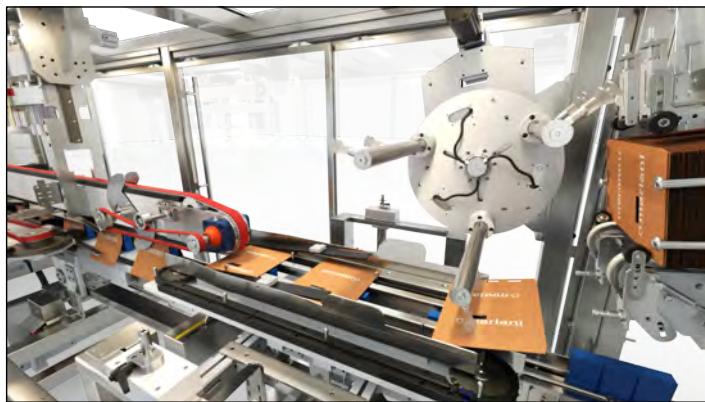
The upper flap and cap through steady the container inside and allows easy and rational use during the packing phases and when it is picked-up by the end-user from the store.



Products arriving on the in-feed conveyor are arranged and laned by means of special parallel belts at machine's entry, distributed into one or two rows and grouped according to the required formats to be packed.

This phase and all subsequent phases of the packing process are controlled through electro-mechanical devices driven by brush-less motors and electronic synchronising systems.

The single product enter the multi-pack and are laned by means of a special product guiding system arriving at the wrapping/collation station of the sleever.



At the same time, the flat carton blanks previously fed from the automatic carton blank magazine by means of a special rotary feeder designed with 3 alternating arms complete with suction cups, places the blank



directly above the products in the collation station. The product positioning is synchronised with the blank feeding and the blank is then wrapped around the collation and glued on the base.

The machine has been designed based on a “user friendly” interface concept, with text and graphics with instant explanation thanks to the support of the touch screen panel.

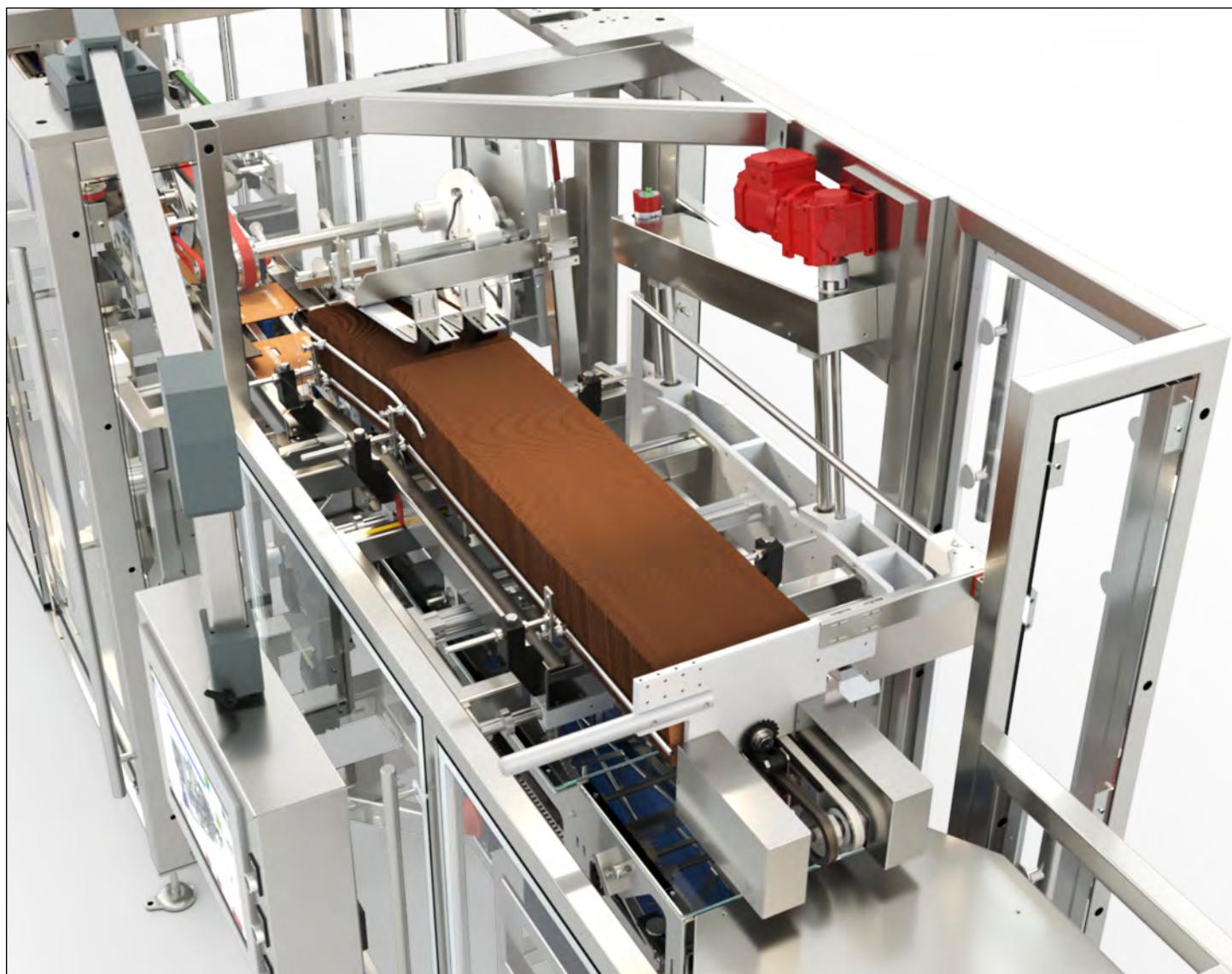
Completely electronic machine controlled by independent brush-less motors, each motor mounted onto single guiding axes. The touch-screen control panel of the BM-364 sleeve wrapping machine has been updated and simplified to allow a fast and efficient operating method.

During the format change operations, a “check-list” displayed on the panel guides the operator through each operation phase.

In addition, the totally open framework of the BM-364 allows easy access for the operators and maintenance personnel.

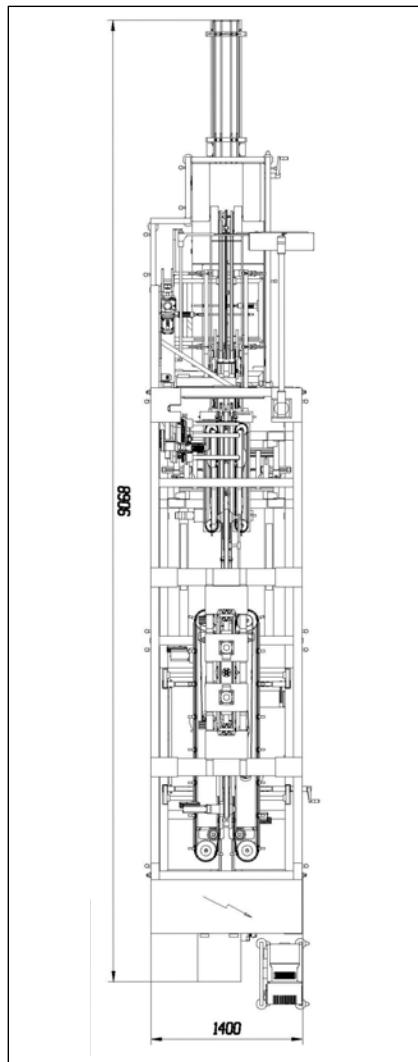
The enclosed base housing makes the cleaning operations easier, should there be any accidental fall of the product and/or liquids.

The toothed transmission belts and the axes movement system reduce maintenance and allow high production rates. It is possible to raise the two driven belt units at machine's entry to remove products and assist with the cleaning operation.



The carton blanks magazine is loaded laterally with a controlled pressure advancing system.
Carton blanks pick-up by means of suction cups with a Venturi vacuum system.

Working cycle



After the packs are conveyed at the machine infeed

- Packs will be conveyed through the dosing device in groups of two, three or four, according to the format have to be produced;
- Blanks carton are then flipped through and dropped off onto the slide;
- Products move forward on the slide together with the cluster so as to allow the cluster to be dropped off onto the formation;
- The upper bucket conveyor hooks the cluster and the products and move them forward: here, the front and the rear sides of the cluster, are folded for the first time;
- Then, after products and cluster have moved forward, the cluster edges are folded;
- Cluster continue their working cycle conveyed by the side pushers and by the bucket conveyor;
- In the final part of the machine, the closure of the lower part of the pack through rotary disks located at the bottom to fold and make the two lower edges, previously sprayed with glue, adhere.

Functional characteristics



“Touch-Screen” operator panel to control the different operation phases and the application of the hot-melt glue. The servomotor technology, standard for this system, makes format changes smooth and simple and requires no tools.

Control panel with display of the possible alarms during the production cycle and output rate indication. Week programme clock for automatic start-up and control of the glue applying station.

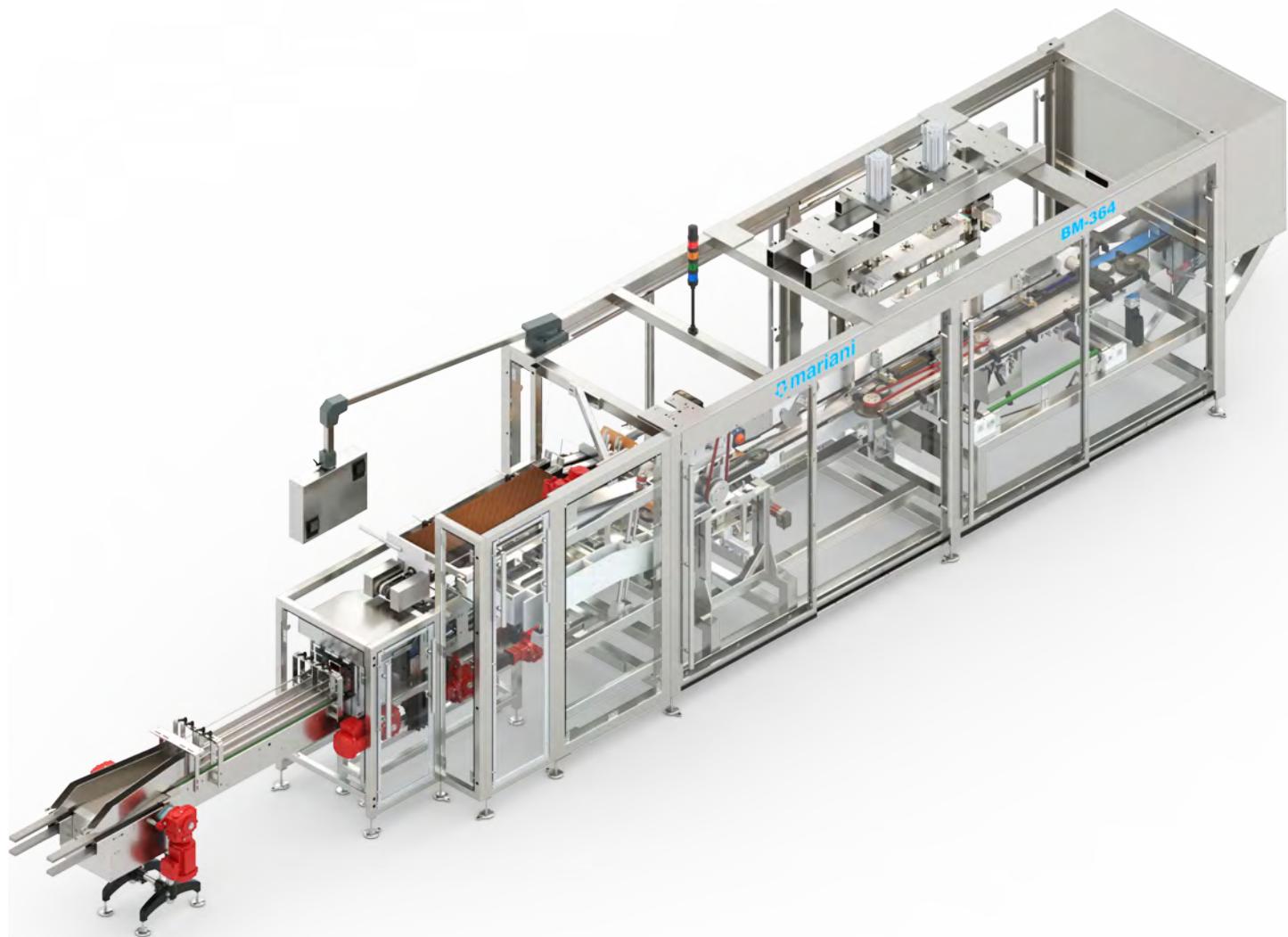
Light signal with 3 colours to indicate: minimum quantity of carton blanks magazine, manual control, machine stopped.

The visualisation of the operating process is displayed on a 19” 3 colour Touch-Screen operator panel which allows:

- Data record recall of the operating formats
- Faults diagnostic guided through a visualisation of the system
- Visualisation and indications with remote connection facility via Ethernet



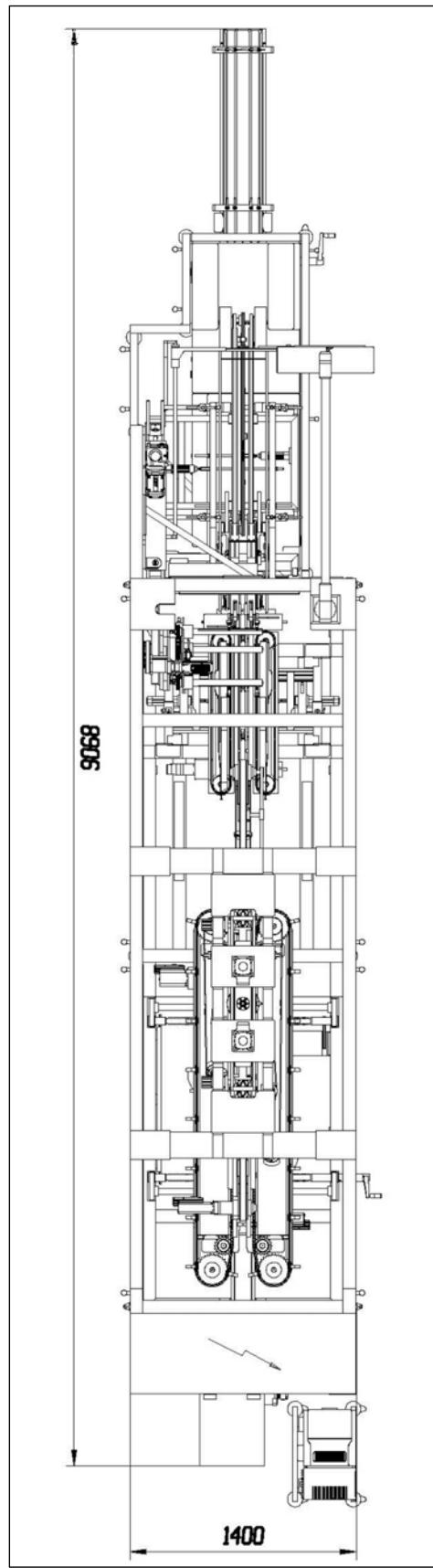
Machine data



BM-364 TECHNICAL FEATURES

Carton blanks magazine	Capacity up to 2.500 blanks according to the thickness
Machine weight	From 4.000 to 5.000 Kg according to the multi-pack type
Electrical Consumption	400 V, 50 hz, 15 kVa, Power requirement: 13 kw, Ip 65
Air supply	6 bar minimum, clean, dry, consumption: 30 m ³ /h
Format changeover	From 5 to 10 minutes according to the packing arrangement.

Machine layout





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