

› INCORPORATING RODA

CASIERMATIC

Assembling and gluing into boxes
of "U" partitions



"U ELEMENTS" PROCESSING



Products are fed into the hopper magazine by hand and then inserted into the machine and pushed forward through a hook, which folds the elements into the "U" shape. The elements are kept upright by a pressure system and moved to the injection area by means of belts.

CROSS ELEMENTS INTERLOCKING



The cross dividers feeder is placed on the top of the interlocking area where the elements are kept upright by a pressure system and moved to the injection area by means of belts. The short stroke piston pushes the cross elements through 2 high speed rollers to ensure a precise penetration within the U-shape.

MERGING TOWER



Partitions are brought forward by the hook and pushed into the gluing device where two special guns shoot hot melt glue on the "U" face and on the flaps located on the side of the partitions. At this point, through an arm, partitions are pushed down and fitted into the carton boxes coming from the side.

COLLECTING DELIVERY TABLE



After coupling, boxes are folded by a closing guiding system. Once reached the finished product, cartons are counted, divided into batches and delivered /stacked onto a table, ready to be strapped from the operator.

CASIERMATIC has been conceived to answer the increasing demand of automation in the process of assembling, inserting and glue locking of partitions inside pre-formed boxes, saving for some applications additional hand processing by means of a very flexible, productive, user friendly solution.

The machine, designed for handling accurately a high range of products, is able to assemble partitions (6-9-12-15 cells) made in corrugated board (B-E-F flutes) and even solid board.

Partition's coupling to the box is assured by hot melt glue shots, on specific points of the partition with special and precise guns. Partition is therefore fixed by means of glue inside the boxes in 1, 2 or 3 spots.

SOLEMA CASIERMATIC - integrating RODA technology - offers many advantages and unique points combining into the same machine all the operations requested by this unique application, bringing to the minimum the labor costs.

Operator feeds the three parts composing the product (u-elements, crosswise elements and boxes) and stacks them down on a pallet at the delivery of the machine of the assembled product, every other process like assembly inserting and gluing are handled automatically from the machine.

CASIERMATIC is fitted with a PLC with touch screen interface for job setting and to enable the possibility of saving parameters of specific products and recall them in case of a repetitive work. The machine's set up time is also minimized to the very least thanks to the automatic axis size change (it is possible with the installation of 7 new motors, 1 for each axis).

Robust construction of CASIERMATIC makes it a long lasting machine - as proven from many installation in different countries of the world.

BOX LOADER



The pile's pre-feeding conveyor consists of a 5 m. motorized roller conveyor, which automatically feeds the machine boxes storage. The sensor of the storage when reads a low level of products, it calls a pile of boxes from the Box Loader. All the adjustments are quickly carried out by means of a few hand wheels.

BOXES PROCESSING



Pre-formed boxes are stacked into the hopper to form a vertical bundle. From the box magazine cartons are fed into the machine and opened by suckers. Once the boxes are in position under the pushing station, partitions are fitted into the cartons.

TOUCH SCREEN / ELECTRICAL CABINET

The machine is controlled and operated from the touch screen panel installed on electrical cabinet. From this HMI the operator processes and saves data related to the different products to be recalled for next productions.

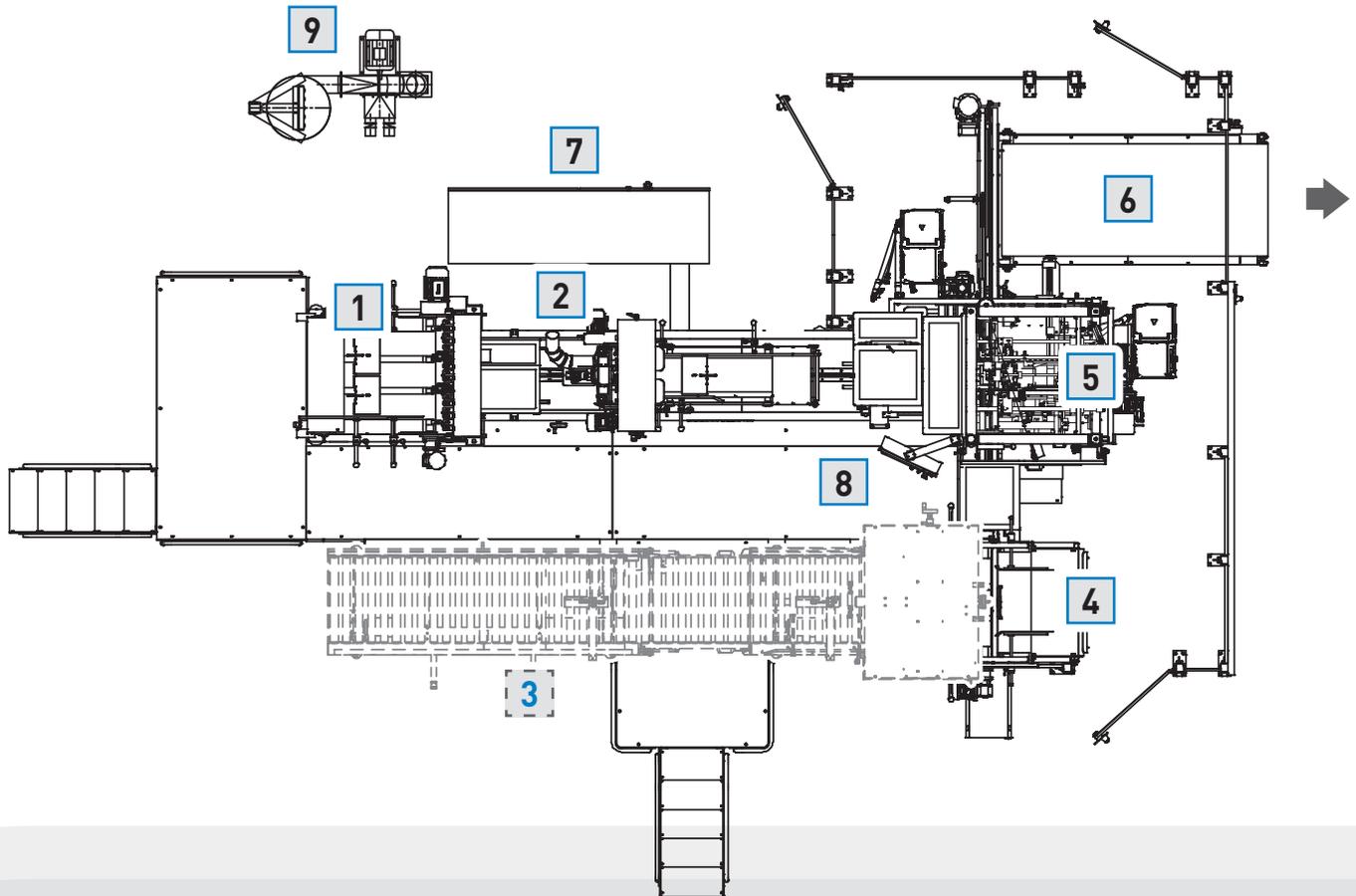
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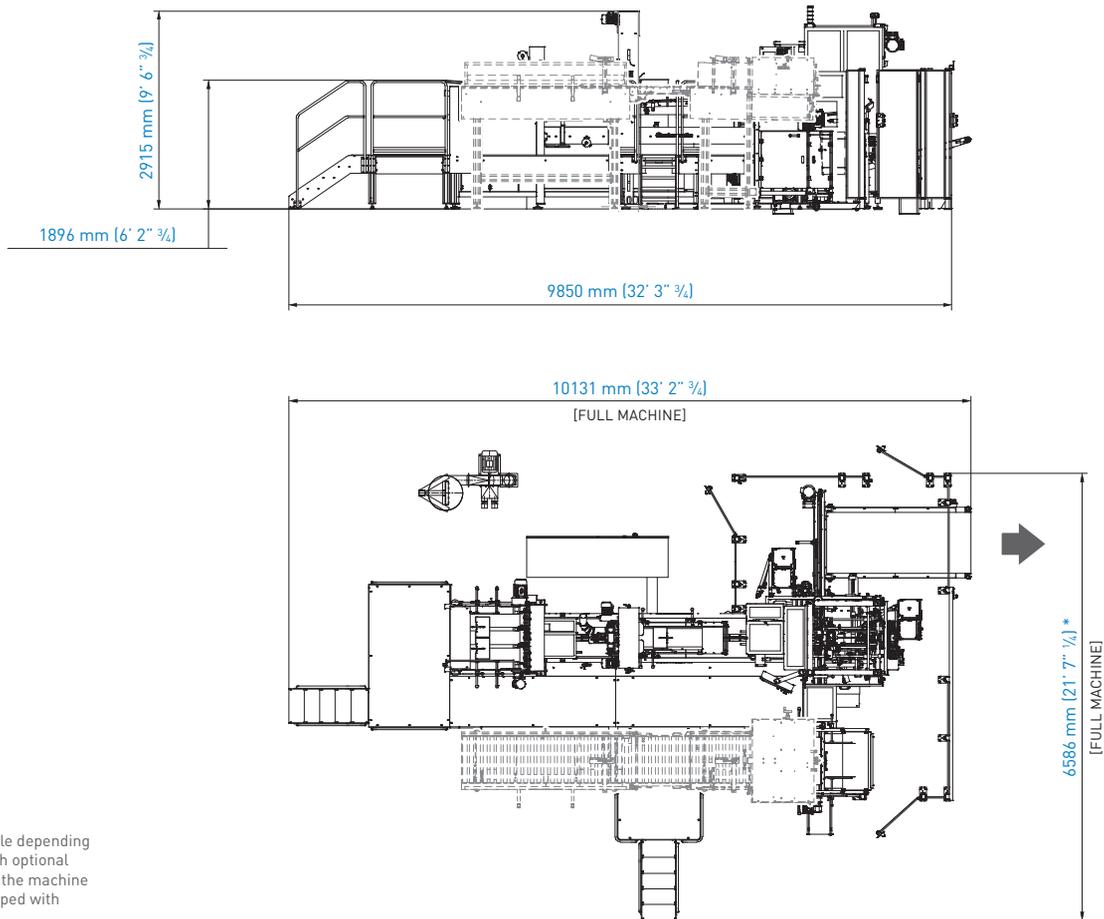
SUCTION SYSTEM

A suction system is installed on the side of the machine, to optimize the assembling process. It acts as a dust extractor, but mainly it creates vacuum on the injection area especially for solid boards fiber which tend to be more flexible.

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CASIERMATIC



* variable depending on which optional devices the machine is equipped with

■ weight 6250 Kg (13779 lb)

TECHNICAL DETAILS

PRODUCTS

- B — E — F flutes and solid board fiber

BOARD THICKNESS

- min. 0.7 mm [1/128"]

PRODUCTION

- 6 — 9 — 12 — 15 cells

"U" ELEMENT WIDTH (A)

- min. 380 mm [14 61/64"] — max. 850 mm [33 15/32"]

TRANSVERSAL ELEMENT WIDTH (B)

- min. 160 mm [6 19/64"] — max. 330 mm [12 63/64"]

"U" ELEMENT LENGTH (C)

- min. 160 mm [6 19/64"] — max. 395 mm [15 35/64"]

"U" ELEMENT HEIGHT (D)

- min. 160 mm [6 19/64"] — max. 340 mm [13 25/64"]

CLOSED BOX WIDTH (E)

- max. 760 mm [29 59/64"]

FOLDING EDGE HEIGHT (F)

- min. 50 mm [1 31/32"] — max. 155 mm [6 7/64"]

BOX HEIGHT (G)

- min. 400 mm [15 3/4"] — max. 630 mm [24 51/64"]

MACHINE THROUGHPUT

- max. 25 boxes/minute

ELECTRICAL REQUIREMENTS

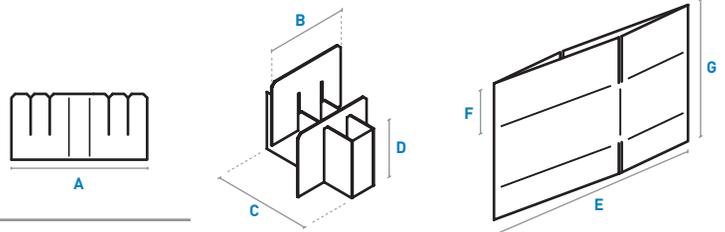
- electrical power supply: 3 × 400 V PNE 50 Hz
- controls voltage: 24 V DC

PNEUMATIC SYSTEM

- pressure: 6 bar

OPTIONAL DEVICES AVAILABLE

- Automatic BOX LOADER



> PERFORMANCES DEPEND ON PRODUCT'S SIZES, PRODUCT'S QUALITY AND OPERATING CONDITIONS

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