

Complete line from 2006 for the packaging of pre-filled syringes as follows:

1. De-Nester Corima model MP2 PCN

The machines in the MP series, used for the extraction of disposable syringes from nests, have been designed and constructed in observance of Current Good Manufacturing Practices. Conceived to fulfill the highest quality requirements of pharmaceutical industries, it can be set to cover a wide range of formats to satisfy the needs of every customer.

Standard features

- Manual loading of tubs with nest onto conveyor belt.
- Automatic nest loading.
- Automatic system for pick-up of nest from tub (PCN).
- Tub presence control.
- Complete extraction of syringes from nest.
- Control of unpicked syringes in nest.
- Automatic offload of syringes on single line.
- Nest offload for bulk collection.

Speed 18.000 Syringes per hour

Weight 1100 Kg

Electrical 415 V

Fase 3F +N+T

Frequency 50 Hz

Power installed 4 kW





2. Corima AEC212 Syringe Labeler and Plunger Inserter with Plunger Unscrambler and Label Easy-Splice

It is an automatic, continuous motion machine for syringe plungering and labelling.

Main features:

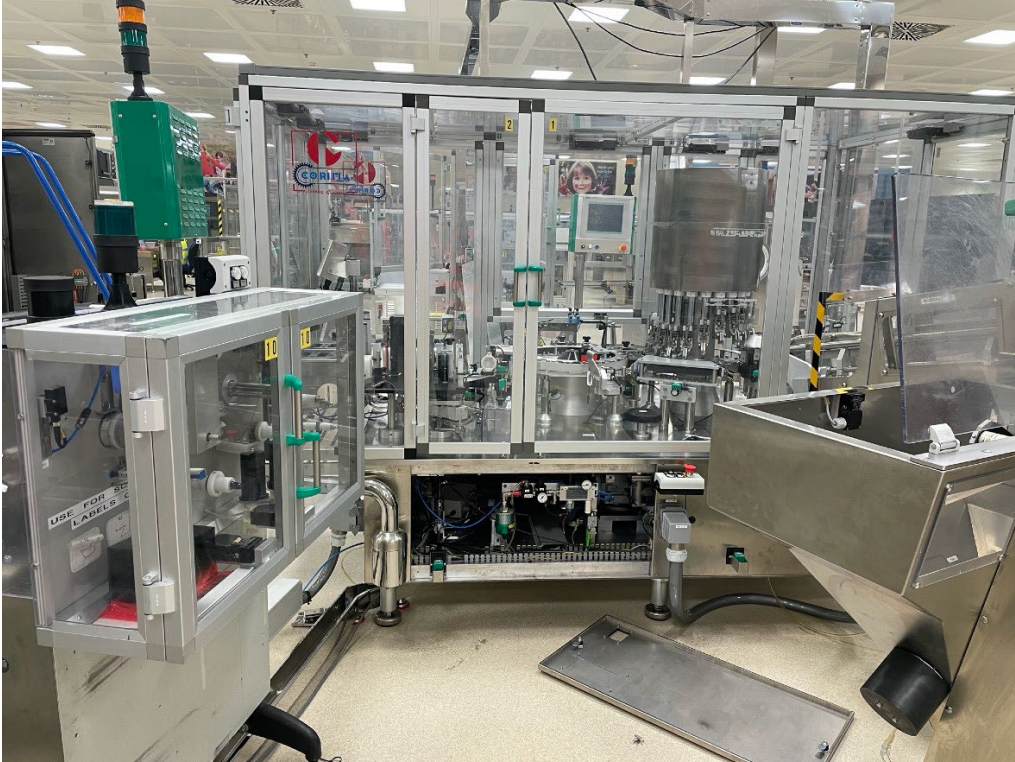
- Perfect operational repeatability;
- Easy to use;
- Minimal installation space;
- Designed to manage each component with positive logic;
- Totally customizable, with wide choice of optional units (e.g. Vision system, printing systems, feeding systems, etc);
- High flexibility and capacity to process glass or plastic syringes.

Standard constructional specifications:

- Automatic syringe loading on roller conveyor;
- Automatic loading of the plungers with elevator and roller conveyor or with vibrating feeder;
- No syringe – No plunger loaded;
- Totally parameterizable screwing unit;
- Plunger assembly control;
- External labelling unit complete with unwinder, printer lodging and rewriter of label tape;
- Label reel management and control;
- Automatic label distribution and application system;
- "Label applied" control;
- "Good/reject" product sorter with motorized flap to ensure great reliability and speed;
- Automatic rejection and counting for each error with collection on external box;
- Compliant and non-compliant product unloading verification.
- Unloading and counting of compliant products on guide or by no-contact robotized systems;

PRODUCT RANGE

Syringes: 0,5 / 20 ml





3. Marchesini FC420 thermoforming machine for pre-filled syringes with feeding system.

High speed mechanical intermittent motion fully automatic packaging machine, balcony structure, independent servo-driven stations, stainless steel finish, PCcontrolled. Designed to fit pharmaceutical-production environments, it thermoforms trays for vials, ampoules, syringes and similar products out of thermoformable films such as PVC, PET, Polystyrene (PS), PP, PLA, multilayer laminates etc.

Its sturdiness, modular structure, simple operation and the easy, tool-less change over make it reliable, highly flexible, efficient and easy to service.

Main features:

Independently servo-driven machine stations. Machine cycle-speed is adjustable from the main HMI, under size dedicated recipes. Two web-index grippers grant the highest precision in pitch repeatability. Easy, tool-less change over: index change and size-related parameters automatically selected from HMI. Pickand-Place for products. Prepared for connection from/to in-line integrated machines. High-speed fully automatic positive products feeding systems are available. High draw depth (up to 42 mm). ZERO-WASTE version (FBZ) with quick die-cutter available (subject to the format configuration)

Heating and Forming Station:

Hardened non-sticking heating plates with individual temperature controls. The film is heated up over multiple pitches. The plates open apart at each machine stop to avoid film overheating. Temperature controllers are integrated in the main HMI. Forming station, mechanically driven through servo motor. Mechanical pre-forming station. The thermoforming is achieved by the use of compressed air combined with the mechanical plug-assist. The thermoforming mould is cooled down.

FORMAT CHANGE

Simple and fast, without the use of tools. The molds, guides and the cutter slide into the stations from the operator side, to a fixed position and are locked with handles. All variable parameters are selectable from operator panel, under recipe to format. A special format trolley is included in the supply of the basic machine.

PICK AND PLACE:

The robotic product feeding system is integrated into the basic machine. The Pick and Place has been specifically designed to gently handle and feed fragile products. The pick-and-place precision, its automatic synchronization with the product pick-up and the formed tray position along with the easy changeover make the system highly reliable, efficient and innovative.

Developed to guarantee:

Quick and accurate tool-less changeover; selectable from the HMI; High flexibility of product range; Efficiency and care in the product handling; Optimization of production time thanks to a higher output; Maximum ease in cleaning and visibility; The pick-and-place system is equipped with the most appropriate infeed systems according to the product to be handled.

The syringes arrive hanging in single line, from an upstream connected machine: a continuous motion synchrodynamic system lays the syringes down in pitch onto the plug-in conveyor pockets, from which they are positively picked-up by the Pick and Place system.

Technical details :

Max forming depth (mm): 42 mm

Mechanical speed,Forming/Sealing (Intermittent motion): 8-50 cycles/min

Mechanical speed Standard Cutter: 8-50 cycles/min

Max forming area:

Film width (A): max 254 mm

Film index (B): 320 mm

Max die-cutting area:

Film width (A): 248 mm

Film index (B): 310 mm

Output: max 48.000/h

Outfeed height: 800-860 mm

Installed power: with sealing station: 36 Kw; without sealing station: 30 Kw

Compressed air consumption (6-8 bar): with sealing station: 1150 NI/min; without sealing station: 1000 NI/min

Cooling water consumption: with sealing station: approx. 370 L/h; without sealing station: approx. 300 L/h

Net weight: 7000 Kg





4. CARTONER MARCHESINI MA 305 WITH ROBOT

Horizontal movement of continuous movement, completely realized with construction, designed in turn to three basic concepts: versatility, ergonomics and maximum efficiency in a reduced space.

Because it is the ideal solution to enter pharmaceutical products.

Principal characteristics:

Balcony construction, in the amount of GMP standards.

All food groups are located in an ergonomic position, to facilitate the load of the operator. This is a reduction in maintenance and level of redness.

Easy and fast change, completely realized from the operator's side and machine control.

Autodiagnosis and help functions.

Installed in the machine a Rontech booklet feeding unit, always in an easy and accessible position for the operator.

Includes a Rontech leaflet feeder system.

Automatic and safety functions:

Automatic operating cycle with steps and recognizability of folders only in the presence of the product.

Cruise control of the products-boxes -leaflet presentation.

Minimum load sensors for product-boxes -leaflet.

Mechanical safety device of the mechanical switch

Mechanical control unit for machine.

Security guards complete with open doors.

Product insertion in the MA 305 study:

Front loaders in the load of the operator and securing each transport and carton transport.

Mechanical speed: has 240 pcs / min

Box feeder

The motorized loader loader is located at an inferior level in comparison with the transport of the product. The principal sales are:

Ergonomics: the load of the sheet is very easy

Cleanliness: without a carton on the product and mechanical parts

Constant food

Optimum recovery and aperture.

Format change:

For a simple and fast change, the machine has a design for making adjustments in the place of redeployment of pieces.

The one of the indicators makes the exchange as easy and as fast as possible.

Rango de trabajo de los estuches min. 25 x 15 x 65 mm Max. 100 x 85 x 150 mm

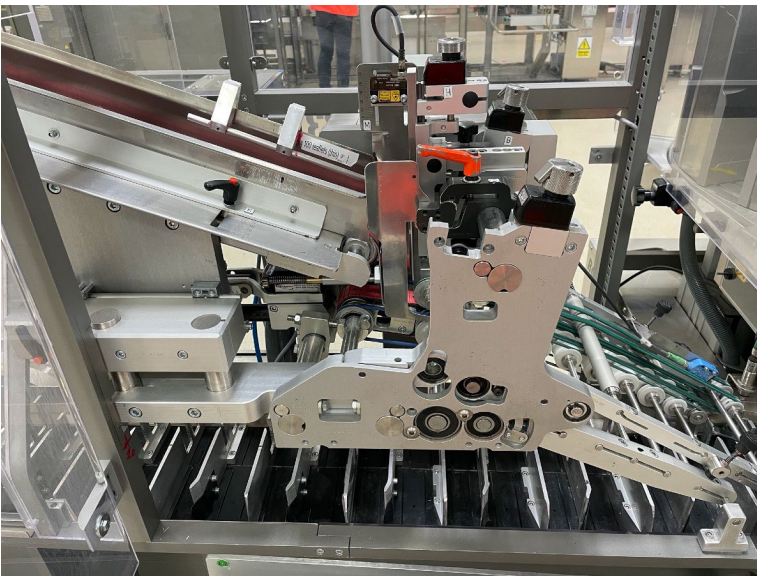
Electric data 380 V 3PH 50 Hz installed power 5 Kw



PICK AND PLACE UNIT



RONTECH LEAFLET FEEDER



RONTECH BOOKLET FEEDER



+ Complete documentation of the machines