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Blistering Machines MARCHESINI GROUP FC420

Images





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Product details

Category:	Blistering Machines
Machine:	FC420
Machine code:	IT306
Manufacturer:	MARCHESINI GROUP
Year of construction:	n/a

Description



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, PC-controlled.

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. Pick-and-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.

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



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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