

SENSITIVE AP400 SERIES

LABELLING MACHINES FOR CARTONS



SENSITIVE AP400 SERIES TRACK & TRACE

IMA LIFE IS READY TO OFFER DIFFERENT SOLUTIONS ON ITS SERIES OF LABELLERS TO ALIGN THE PACKAGING OF PHARMACEUTICAL PRODUCTS TO THE NEW EMERGING REQUIREMENTS IN TERMS OF TRACK & TRACE OF THE FINAL PRODUCTS.

The mass serialization of the pharmaceutical products is in fact a very actual and important issue for the pharmaceutical industry worldwide, in order to avoid the counterfeit of drugs and to guarantee the safety and traceability of each single product back along the entire supply chain.

On the international scene a lot of countries are moving forward at this regard, approving new specific laws. The data to be tracked can be printed both in characters and numbers and in a 2D Datamatrix code, which includes all information to be traced in a very limited space, if compared with traditional bar-codes. This code will be applied on the product by means of a printer and follow checked by a camera vision system.

IMA LIFE can offer different customized solutions for new or existing packaging lines.

Thanks to the displacement of the operative groups, the machines are indeed suitable to accept the installation of either an ink-jet or laser printer for the printing of Datamatrix codes and/or various supplementary data on the cartons. In addition, the application of a camera vision system for data reading and verification (batch no., expiry date; progressive coding) enables the tracking & tracing of all pharmaceutical products labelled. Code readers for RFID labellers are also available. When necessary, IMA LIFE can offer the carton codification only.





WITH THE AVAIL OF INTEGRATOR PARTNERS ALL THE LABELLING MACHINES CAN BE EASILY INTEGRATED WITH INFORMATIVE SYSTEMS LIKE SAP AND MES.

Several solutions of this kind have been already supplied by IMA LIFE to the major pharmaceutical multinationals worldwide and different others can be easily customized according to the productive needs of the specific international market, where the legal regulations in terms of serialization of the products, can be slightly different one from the other.

SENSITIVE AP400 SERIES

SENSITIVE AP400 IS A COMPLETE SERIES OF AUTOMATIC LINEAR LABELLERS FOR CARTONS.

IMA LIFE offer a wide range of labelling machines suitable to apply self-adhesive labels on cartons. The range includes machines for tamper evident seals on both flaps of cartons as well as vignette or Italian bollino application on the top face.

The machines in the range are optimised to respond to the increasing requirements of the pharmaceutical industry in the field of track and trace the packaged products. All the machines of the Sensitive AP Series can print and check tracking codes like 2D or DM on different parts of the carton and customized solutions can be offered for specific needs.

IMA LIFE has gained a vast experience in integrating different and third party solutions in terms of Track & Trace. Various ink jet or laser printers as well as several software and camera vision systems, according to customer's specific requirements, have been integrated on board of our machines.





The new **IMA LIFE SENSITIVE AP400 SERIES** consists of linear labelling machines to apply, at high speed, self-adhesive labels on three of the carton's sides. The machine can actually be equipped with 3 labelling heads for the most complete installations, with just two side heads for application of tamper-evident seals and also with one top head only for vignette labels. The machine can handle both aeroplane style or reverse tuck cartons.

SENSITIVE AP400 has been specifically designed for pharmaceutical type applications; the stainless steel finishing along with the compact overall design are realized according to ergonomic criteria and latest GMP's standards. The machine can run as a stand-alone equipment or be part of complete packaging lines.

The compact and ergonomic design allows an easy access for the operator over the entire labelling process and a quick clearance and cleaning of the machine base. Moreover, the neat machine base surface guarantees the easy installation of several equipment for code printing, reading and verification.

Among its main features, **THE POSITIVE TRANSPORT OF CARTONS** by toothed belt is for sure the most important one; ensuring a smooth transfer of the cartons throughout the machine working areas. The system provides for the cartons to be firmly kept in position thanks to a toothed belt resulting in high precision and accuracy of labelling. A fork photocell provides for detection of the label pitch to check the correct dispensing of labels on the cartons.

The positive transport system of cartons in pitch makes the machine completely fail-safe.

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Cartons in-feed and distribution to main transport system controlled by brushless motors.

Label application takes place by means of two labelling heads opposite each other for tamper evident seals, while vignette labels are applied by means of a top head assembled over the carton transport system. Label dispensing and application group also driven by stepping motor and system for automatic synchronization with the carton transport speed. The dispensing group is provided for vertical and transversal position adjustments, for a quick regulation of the label position on the carton, including a digital indicator hand-wheel.

Safety protection hood are realized in anodized aluminium and transparent plastic panels in compliance with accident prevention standards and are equipped with magnetic retention sensors to stop machine in case of door opening.

Machine output can be up to 400 cartons/min.

HMI suitable for the supervision and monitoring of all machine status, real time production, label management, intervention of safety devices and alarms with clear description of the fault and relevant troubleshooting.

The machine is completely controlled by a PLC with fail-safe logic; on demand an industrial PC can be installed when 21 CFR Part 11 compliance is required. The size change over and the batch information are managed by means of recipes directly from HMI.



Configuration with tamper evident and vignette labelling heads



LABEL REEL HOLDERS SLIDING ON RAILS FOR LABEL REEL MANUAL CHANGE VERTICALLY POSITIONED INSIDE MACHINE BASEMENT; THE HOLDERS ARE COMPLETE WITH AUTOMATIC DE-REELING AND SENSORS FOR LABEL REEL-END DETECTION.

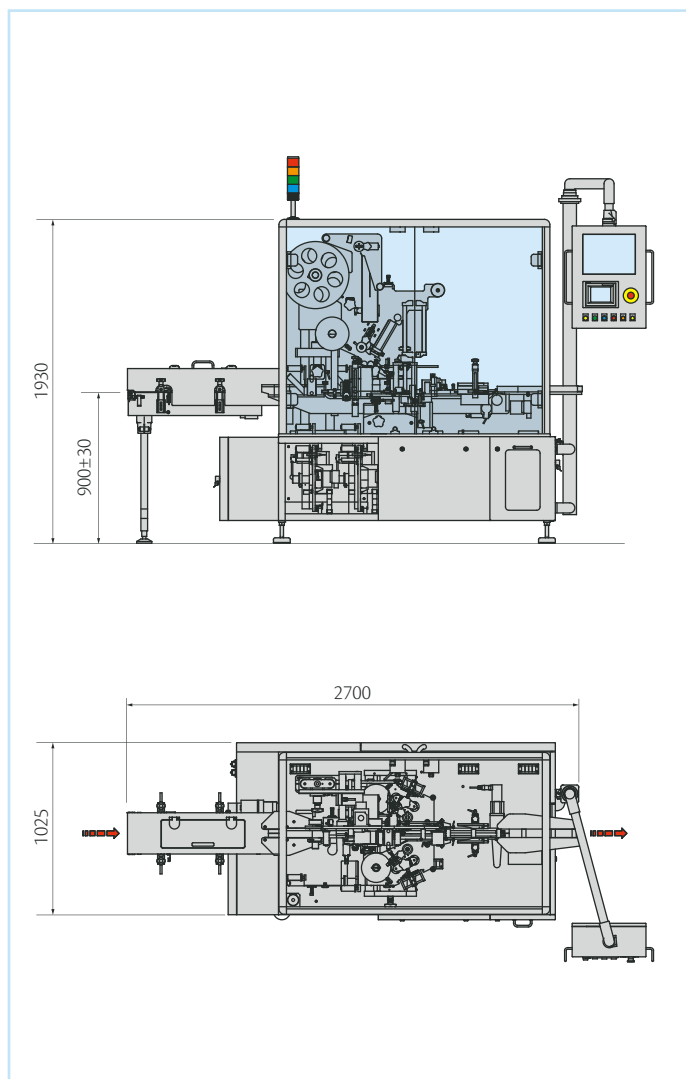


Vignette labeller



The rejection unit is also designed according to the latest GMP's regulations, allowing maximum visibility of the whole labelling process. It consists of a positive logic pneumatic flap to carry out the rejection of non conforming cartons with missing label and/or faulty printed data into a box positioned inside machine basement on operator's side.

SENSITIVE AP400 SERIES TECHNICAL DATA



OPTIONAL UNITS

- LABEL PRESENCE ON CARTON CONTROL SYSTEM
- AUTOMATIC CARTON REJECTION WITH REJECT CONFIRMATION SENSOR
- HOT FOIL, LASER, THERMAL TRANSFER OR INKJET OVERPRINTING UNITS
- OVERPRINT CONTROL SYSTEM
- CAMERA SYSTEM TO CONTROL OCV/OCR; 1D/2D OR DM VERIFICATION, PRESENCE, SLOPE CONTROL, PATTERN MATCHING, ETC...
- SINGLE CHARACTER OVERPRINT CONTROL SYSTEM BY VIDEO CAMERA (OCV, OCR)
- 1D/2D OR DM (DATA MATRIX) CONTROL SYSTEM
- POSSIBILITY TO HANDLE EXTRA LONG LABELS
- POSSIBILITY TO APPLY AND CONTROL RFID LABELS AND INTEGRATION WITH E-PEDIGREE AND SERIALIZATION SYSTEMS
- INDUSTRIAL PC ON OPERATOR'S INTERFACE

Output	Up to 400 cartons/min.
Installed power	2 kW (depending on machine configuration)
Standard voltage	400V - 50 Hz - 3PH + G
Length	2700 mm
Width	1025 mm
Height	1930 mm
Vignette label size	Length 15 - 60 mm Height 10 - 60 mm
Vignette reel diameter	Up to 400 mm
Tamper evident label size	Length 15 - 35 mm Height 15 - 35 mm
Tamper evident reel diameter	Up to 350 mm
Labelling accuracy	+/- 1 mm



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