

SENSITIVE SERIES

LABELLING MACHINES FOR CARTONS



TRACK & TRACE SOLUTIONS

IMA LIFE PRODUCTION INCLUDES A WIDE RANGE OF CARTON LABELLING MACHINES WHICH CAN BE AN INTEGRAL PART OF COMPLETE PACKAGING LINES OR SERVE AS STAND-ALONE MACHINES

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 issue and very important 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 now moving forward at this regard, approving new specific laws. The data to be tracked and traced as the batch number, the expiry date, the productive plant, etc.; all of these data are summarized 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 following read and verified by a camera vision system.

In view of this new requirement of the pharmaceutical industry, 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 various data on the cartons and the application of a camera vision system for data reading and verification (batch no., expiry date; progressive Matrix), in order to allow the track & tracing of all pharmaceutical products labelled. Code reader for RFID labellers are also available. When necessary, IMA Life can offer the carton codification only.

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.

With the avail of our integrator partners all the labelling machines can be easily integrated with informative systems like SAP and MES.



Sensitive A400 TE 3T



Sensitive A400 TE



IMA LIFE CAN WORK WITH ALL THE MAJOR SUPPLIERS OF SOFTWARE AND CAMERA VISION SYSTEMS ACCORDING TO THE CUSTOMER'S SPECIFIC REQUIREMENTS



Sensitive A400 IT



Sensitive SVL



Sensitive 300 TB

SENSITIVE A400 TE 3T

SENSITIVE A400 TE 3T IS A COMPLETE AUTOMATIC LABELLING MACHINE SUITABLE FOR APPLYING SELF-ADHESIVE LABELS.

Sensitive A400 TE 3T guarantees the tamper evident sealing of closed cartons and for applying vignettes and Italian Bollino on the top of 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 labelling as well as optical vignette application on top face and on both flaps of cartons.

The machines in the range are optimised to respond to the increasing requirements of the pharmaceutical industry in the field of track-and-tracing the packaged products. All the machines of the SENSITIVE Series can print and check tracking codes like Datamatrix on different parts of the carton and customized solutions can be offered for specific needs.



Label application

Designed for easy application in line with packaging machines, SENSITIVE A400 TE 3T can handle straight or reverse tuck cartons and applies seals of either transparent plastic materials or paper. The machine can reach an out-put speed of up to 500 cartons/min. Built in accordance with cGMP standards and completely made of st. st., SENSITIVE A400 TE 3T is featured by a high degree of flexibility.

According to the working system of the upstream cartoner, the machine can apply labels:

- on both lateral sides of cartons
- on top of cartons only
- on both lateral sides and on top of cartons.

The self-checking control system of the machine features reverse logic. Carton spacing is allowed through two lateral belts (with independent motorization), that, moving at a speed lower than that of the conveyor belts, keep the cartons constantly spaced. Thanks to PLC and a very friendly HMI, the machine is equipped with state-of-the-art electronic control system.

Bar code, DATAMATRIX printers and code readers or Camera Vision systems can be installed as optional units.

LABEL REEL HOLDERS FOR LABEL REEL CHANGE VERTICALLY POSITIONED IN THE MACHINE BASEMENT



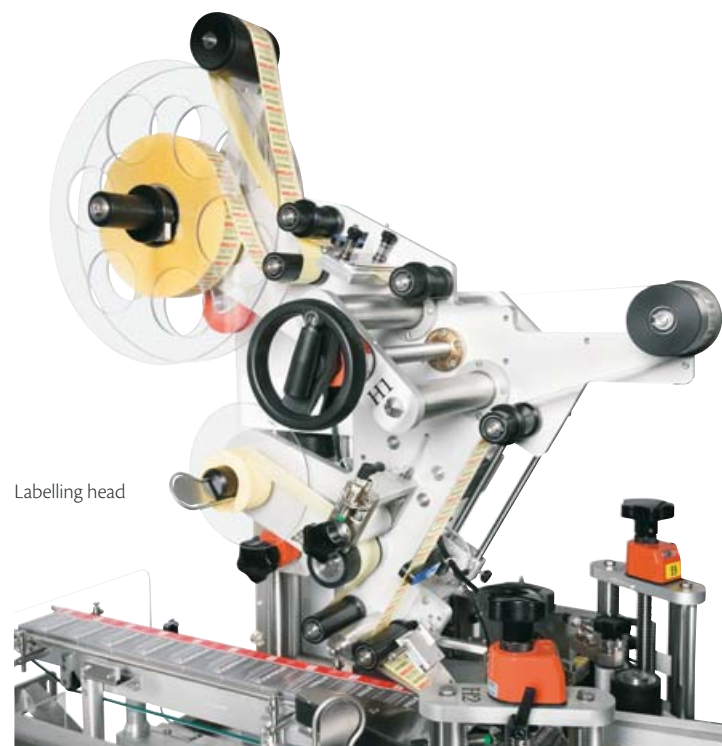


Rejection device

THE SYSTEM ENABLES THE STEP-TRANSPORT OF CARTONS AND, THEREFORE, MAKES IT POSSIBLE TO STORE ALL REJECTIONS AND THE WORKING SELF-CONTROL OF ALL PHOTOCELLS AND SENSORS.



Label application takes place by means of two labelling heads opposite each other, while vignette labels are applied through a third head fitted above the carton transport system and controlled by a stepping motor. The transport system consists of lower belts driven by inverter with encoder for synchronization with the two side heads.



Labelling head

SENSITIVE A400 TE

SENSITIVE A400 TE COMPLETE AUTOMATIC LABELLING MACHINE, SUITABLE FOR SELF-ADHESIVE LABELS TO GUARANTEE THE TAMPER EVIDENT SEALING OF CLOSED, TUCK FLAP CARTONS.



The machine can handle aeroplane or reverse tuck cartons and applies seals of either transparent plastic materials or paper. Label application takes place by means of two labelling heads opposite each other. The machine is finished throughout in stainless steel.

The self-checking control system of the machine features negative logic.

The infeed group introduces cartons into the main transport conveyor by means of plastic lugs mounted on continuously running belts.

The carton spacing is made by means of two side motorized rollers (each one with independent motorization) which are fixed on the conveyor belts side.

The transport group is made by two belts (transporting the cartons by keeping them from the bottom) with continuous motion.

The transport unit is even equipped with an upper contrast conveyor, independently motorized, that moves at the same speed of the lower conveyor.

The riveting units are made of two helical guides placed on the conveyor belts sides. The machine is equipped with PLC and a very friendly operator interface.

Bar code, DATAMATRIX printers and code readers or Camera Vision systems can be installed as optional units.



THIS TRANSPORT SYSTEM ENABLES A RECORD OF ALL REJECTIONS TO BE MADE AS WELL AS THE FUNCTIONING OF THE SELF-CHECKING NEGATIVE LOGIC CONTROL. THE TWO TRANSPORT BELTS ARE ADJUSTABLE FOR CARTON WIDTH BY MEANS OF A CENTRAL HANDWHEEL WITH POSITION INDICATOR.

A double eccentric continuous motion device folds the labels as the cartons pass



The transport system is easily adjustable from a central handwheel. The distributing heads are adjusted by the same mechanism.



Two side motorized rollers pillow a correct spacing in between cartons. The upper contrast conveyor keeps the cartons in the correct position during labelling and riveting phases.



The upper contrast conveyor keeps the cartons in the correct position during labelling and riveting phases.

SENSITIVE A400 1T

SENSITIVE A400 1T IS A COMPLETE AUTOMATIC LABELLING MACHINE SUITABLE FOR THE APPLICATION OF 1 VIGNETTE LABEL OR SIMILAR ON THE UPPER FACE OF FORMED CARTONS.

SENSITIVE A400 1T is the IMA Life latest development in the field of vignette labelling.

The machine offers great advantages from a cGMP and operator accessibility point of view. Conceived to guarantee a high level of label accuracy, flexibility and reliability, the machine can reach an output of over 400 cartons/min.



Rejection station



The label dispensing and application group is driven by a stepping motor and system for automatic synchronization with the carton transport speed; the dispensing group is provided with vertical and transversal position adjustments, for a quick regulation of the label position on the carton, complete with digital indicator hand-wheel.

The control panel is positioned out of the machine hood and is placed on a swinging arm, the labelling head is easily accessible for label reel change over and other working operations

Thanks to PLC and a very friendly HMI, the machine is equipped with state - of-the-art electronic control system.

To cope with the track & trace process, Printers & vision system (components as bar code, DATAMATRIX printers and code readers) can be installed as optional units.

CARTON REJECTION UNIT PLACED UNDERNEATH AND INSIDE THE MACHINE BASEMENT FOR DIRECT RECOVERY OF REJECTED CARTONS INSIDE THE MACHINE BASE FRAME. MACHINE STOP AFTER A CONSECUTIVE NUMBER OF REJECTIONS OF THE SAME TYPE.



Independent **servo driven** motorization for in-feed carton spacing. Label application: positive carton transport through the whole labelling phase. The machine is provided with a confirmation sensor for the automatic rejection of the non conforming cartons.



SENSITIVE SVL

SENSITIVE SVL AUTOMATIC LABELLING MACHINE SUITABLE TO APPLY VIGNETTES, ITALIAN BOLLINO OR HOLOGRAPHIC LABELS ON THE TOP FACE OF CARTONS.

WITH A TOTAL LENGTH OF 600 MM, THE MACHINE IS SPECIFICALLY DESIGNED TO BE INSTALLED IN EXISTING PACKAGING LINES, WHERE SPACE CONSTRAINT IS A MAJOR ISSUE.

The machine is completely made of st.st. and although a very short length, all units are elevated slightly above its base for easy access and cleaning operation. Feeding and transport of cartons is done by means of self-driven fabric-finish conveyor belt. At labelling station, the cartons are transported by two lateral belts that guarantee the correct positioning of the cartons themselves during label application.

The size change over is quick and easy thanks to knobs with micrometric adjustment through digital indicators. Additional tools are not required.



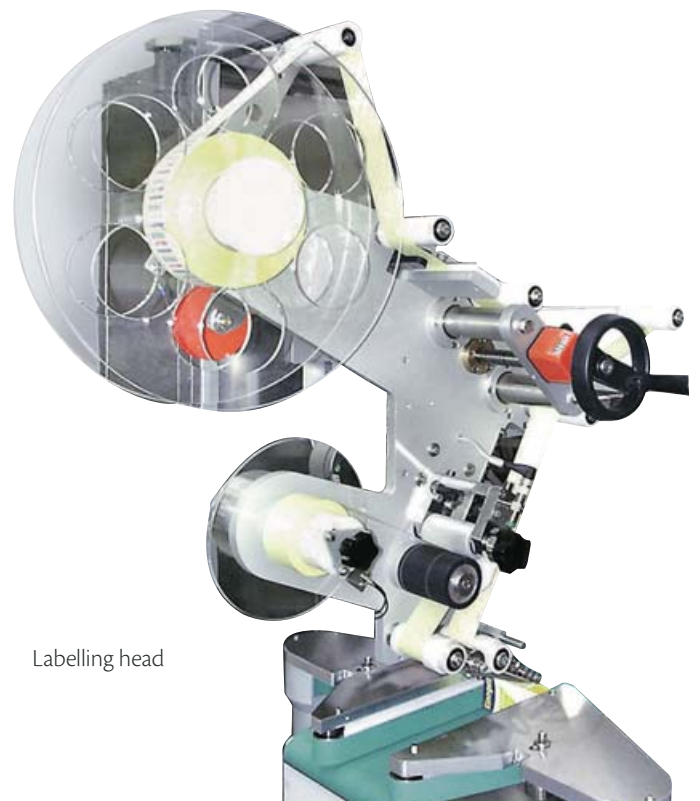


Label application



Rejection device

Thanks to PLC and touch screen panel operator, SVL is equipped with state-of-the-art electronic controlling system. Bar code, DATAMATRIX code readers or Camera Vision systems can be installed as optional units and even a thermal transfer printer, still in 600 mm. With a maximum speed of 400 cartons/min SVL is the right machine to be positioned downstream a High Speed Blister Machine.



Labelling head

SENSITIVE 300 TB

SENSITIVE 300 TB COMPLETE AUTOMATIC LABELLING MACHINE, FOR SELF-ADHESIVE LABELS, SUCH AS OPTICAL LABELS, VIGNETTES, HOLOGRAPHIC LABELS ON UPPER AND/OR BOTTOM FACES OF CLOSED CARTONS.



The machine is designed to be installed inline and integrated with packing machines.

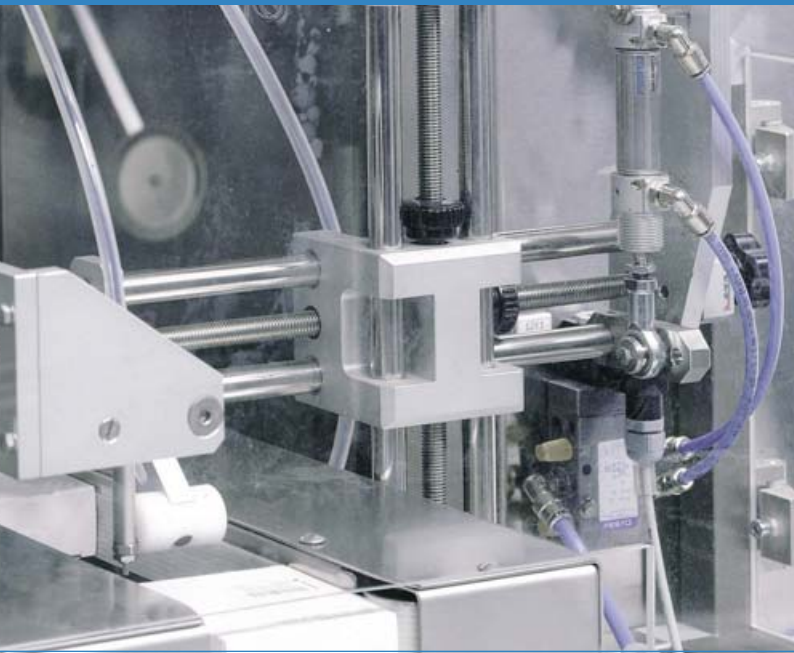
The feeding and the transport of the cartons is made by means of an independently driven conveyor the speed of which is synchronised to that of the label application group by means of a shaft encoder. At the labelling station, the cartons are conveyed past the labelling head by two side belts which ensure their correct positioning. The positive drive guarantees effective label application.

A stepping motor that is automatically synchronised with the set speed of the machine drives the label distribution and application unit.

This unit is equipped with hand wheels that permit a rapid adjustment of the transverse and horizontal positions of the labels on the cartons. Fibre optic photocells detect the presence of the carton and signal the start of the application operation. Lead-screws adjust the positions of the fibre optics. Thermal transfer or hot foil printer can be installed on labelling head.

The machine offers the possibility to install either single labelling head, top or bottom, or top and bottom, labelling heads. With this solution labels can be applied either on the top or the bottom or on both faces of carton as required.

Bar code, DATAMATRIX code readers or Camera Vision systems can be installed as optional units.



THE REJECTION UNIT IS EQUIPPED WITH A PNEUMATIC SYSTEM THAT COLLECTS ALL THE REJECTED CARTONS IN A LOCKABLE BIN.



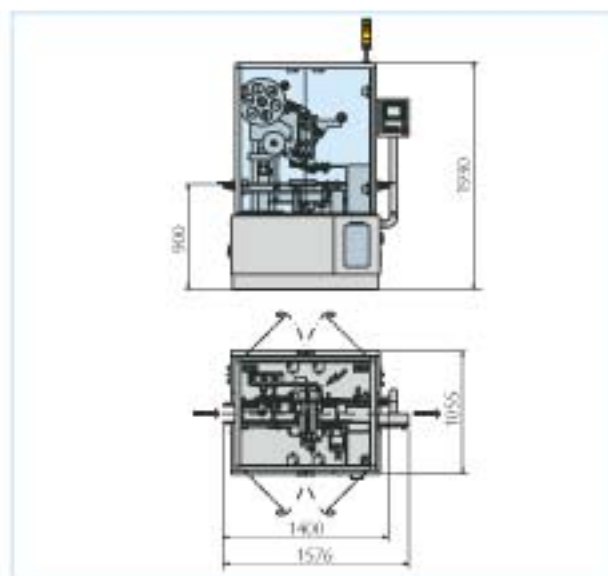
The top labelling head is designed to be easily adjusted on vertical and transverse positions by means of hand-wheels. This permits to apply labels everywhere on the top face of cartons of different heights.



As the top labelling head, the bottom labelling head can be supplied with hot foil or thermal transfer printer. Bar code reader for verification can be also installed to verify labels.

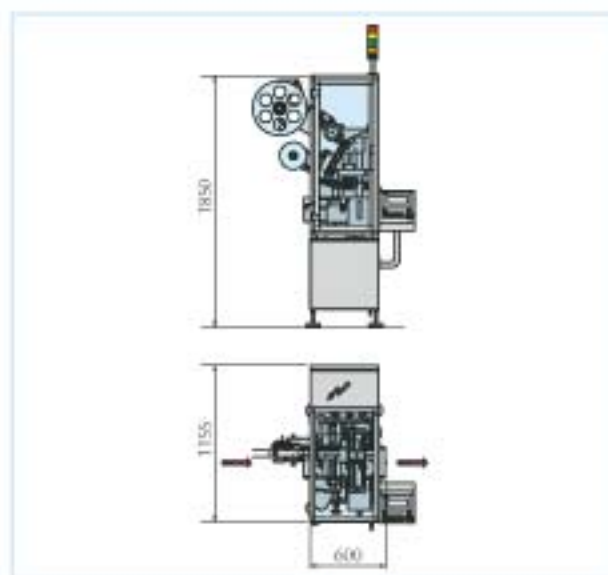
SENSITIVE A400 1T

Output	Up to 400 cartons/min	
Installed power	1,4 kW	
Standard voltage	400 V - 50 Hz - PH + G	
Length	1576 mm	
Width	1055 mm	
Height	1930 mm	
Vignette label size	Length min/max 15 - 60 mm	Height min/max 10 - 60 mm
Vignette reel diameter	Up to 400 mm	
Labeling accuracy	± 1 mm	



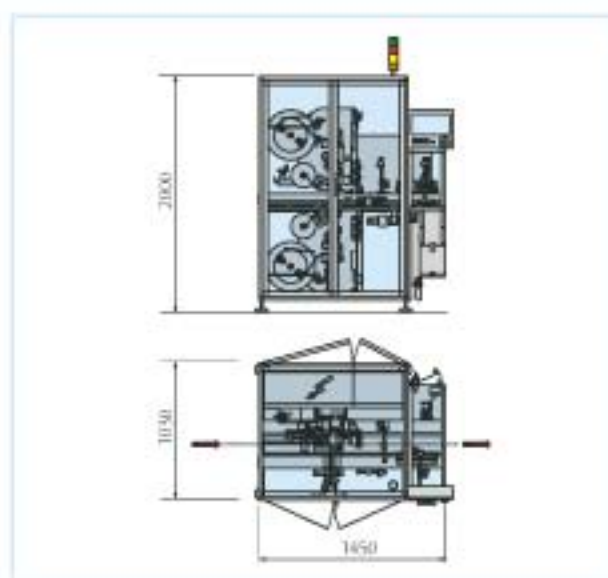
SENSITIVE SVL

Output	Up to 400 cartons/min	
Installed power	1,4 kW	
Standard voltage	400 V - 50 Hz - 3 PH + G	
Length	600 mm	
Width	1155 mm	
Height	1850 mm	
Vignette label size	Length min/max 15 - 60 mm	Height min/max 10 - 60 mm
Vignette reel diameter	Up to 400 mm	
Labeling accuracy	± 1 mm	

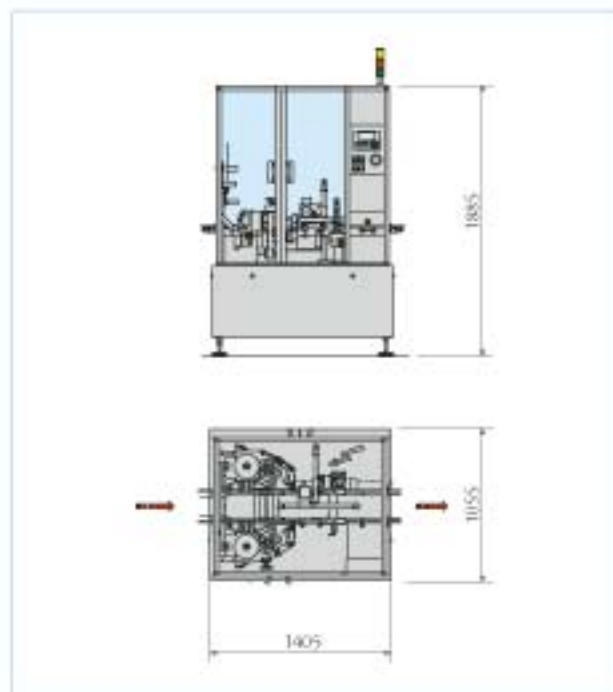
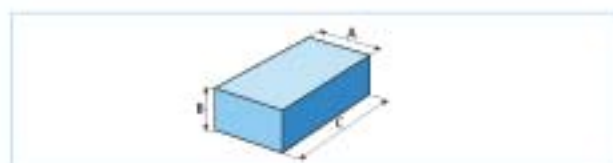
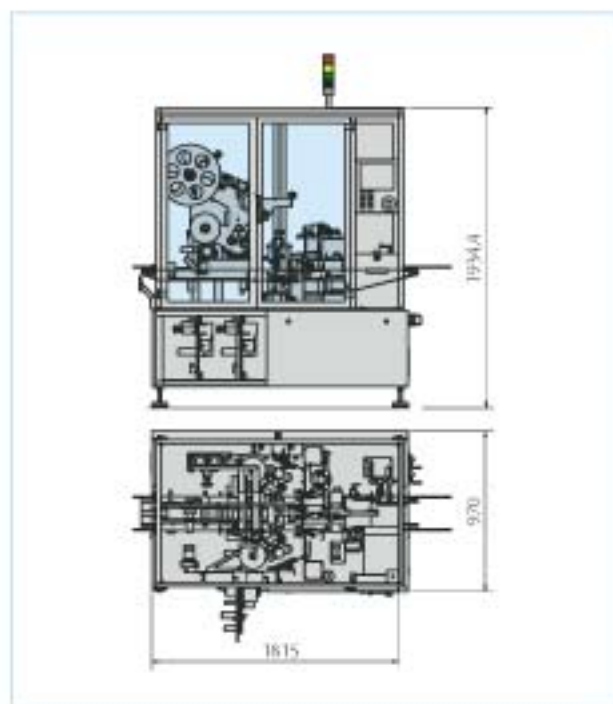


SENSITIVE 300 TB

Output	Up to 300 cartons/min	
Installed power	1,2 kW	
Standard voltage	400 V - 50 Hz 3 PH + N + G	
Length	1450 mm	
Width	1030 mm	
Height	2000 mm	
Label size	Length min/max 15 - 100 mm	Height min/max 10 - 60 mm
Label reel diameter	Max 400 mm	
Labeling accuracy	± 1 mm	



SENSITIVE SERIES TECHNICAL DATA



SENSITIVE A400 TE 3T

Output	Up to 500 cartons/min	
Installed power	2,7 kW	
Standard voltage	400 V - 50 Hz - 3 PH + G	
Length	1815 mm	
Width	970 mm	
Height	1934,4 mm	
Vignette label size	Length min/max 15 - 60 mm	Height min/max 10 - 60 mm
Vignette reel diameter	Up to 400 mm	
Tamper evident label size	Length min/max 15 - 35 mm	Height min/max 15 - 35 mm
Tamper evident reel diameter	Up to 350 mm	
Labelling accuracy	± 1 mm	

CARTON DIMENSIONS FOR SENSITIVE SERIES

Carton dimensions	A	B	C
	20 to 150 mm	12 to 100 mm	50 to 210 mm

SENSITIVE A400 TE

Output	Up to 400 cartons/min	
Installed power	1,5 kW	
Standard voltage	400 V - 50 Hz - 3 PH + G	
Length	1405 mm	
Width	1055 mm	
Height	1885 mm	
Tamper evident label size	Length min/max 15 - 35 mm	Height min/max 15 - 35 mm
Tamper evident reel diameter	Up to 350 mm	
Labelling accuracy	± 1 mm	

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Certificate
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