

# SENSITIVE SERIES FOR VIALS AND BOTTLES

LABELLING MACHINES



# SENSITIVE SERIES FOR VIALS AND BOTTLES

RENOWNED AS A LEADING SUPPLIER IN THE FIELD OF LABELLING MACHINES, IMA LIFE OFFERS THE INNOVATIVE SENSITIVE SERIES DESIGNED TO APPLY LABELS TO VIALS AND BOTTLES ENSURING HIGH PERFORMANCE AND VERSATILITY. THE MACHINE RANGE INCLUDES DIFFERENT MODELS.

Linear machines for low and medium speed requirements:

- **Sensitive 200**, suitable for applying self-adhesive labels to oval, elliptical and rectangular containers and even to cylindrical containers (one label only).
- **Sensitive 350**, suitable for applying self-adhesive wrap-around labels to cylindrical containers.
- **Sensitive ECO**, suitable for applying self-adhesive labels to cylindrical containers.
- **Sensitive ECO LV**, suitable for applying self-adhesive labels to cylindrical, large-volume containers.

Rotary machines for medium and high speed requirements:

- **Sensitive Roto 400**
- **Sensitive Roto 540**
- **Sensitive Roto 720**
- **Sensitive Roto 960**

All suitable for applying self-adhesive labels to all sides of oval, square or rectangular bottles, vials and cylindrical containers with unusual shapes.







# SENSITIVE SERIES FOR VIALS AND BOTTLES



## MAIN FEATURES

- COMPACT AND ERGONOMIC DESIGN WITH STAINLESS STEEL FINISH.
- CAN BE SUPPLIED IN STAND-ALONE VERSIONS OR INTEGRATED IN COMPLETE PROCESSING AND PACKAGING LINES.
- POSITIVE TRANSPORT OF THE CONTAINERS FOR PRECISE LABEL APPLICATION (ONLY FOR ROTARY LABELLERS).
- FULL SERVOMOTOR TECHNOLOGY FOR MAXIMUM PRECISION DURING THE LABELLING PROCESS.
- SAFETY SYSTEM FOR FALLEN BOTTLES WITH MACHINE STOP AND ALARM ON THE CONTROL PANEL.
- REJECTION UNIT FOR CONTAINERS WITH MISSING LABELS AND/OR INCORRECTLY PRINTED DATA WHICH ARE DRIVEN ONTO A PARALLEL BELT OR COLLECTED IN A BOX.
- SAFETY PROTECTION HOODS IN ANODIZED ALUMINIUM WITH PLEXIGLAS PANELS IN COMPLIANCE WITH ACCIDENT PREVENTION STANDARDS AND EQUIPPED WITH MAGNETIC SENSORS TO AVOID DOOR OPENING WHILE THE MACHINE IS WORKING.
- STRAIGHTFORWARD ACCESS OVER THE ENTIRE LABELLING PROCESS, QUICK CLEARANCE AND CLEANING.
- HMI FOR MACHINE MONITORING AND SUPERVISION OF DATA COLLECTION.
- EASY INSTALLATION OF OVERPRINTING DEVICES AND CAMERA VISION SYSTEMS TO READ AND CHECK DATA.



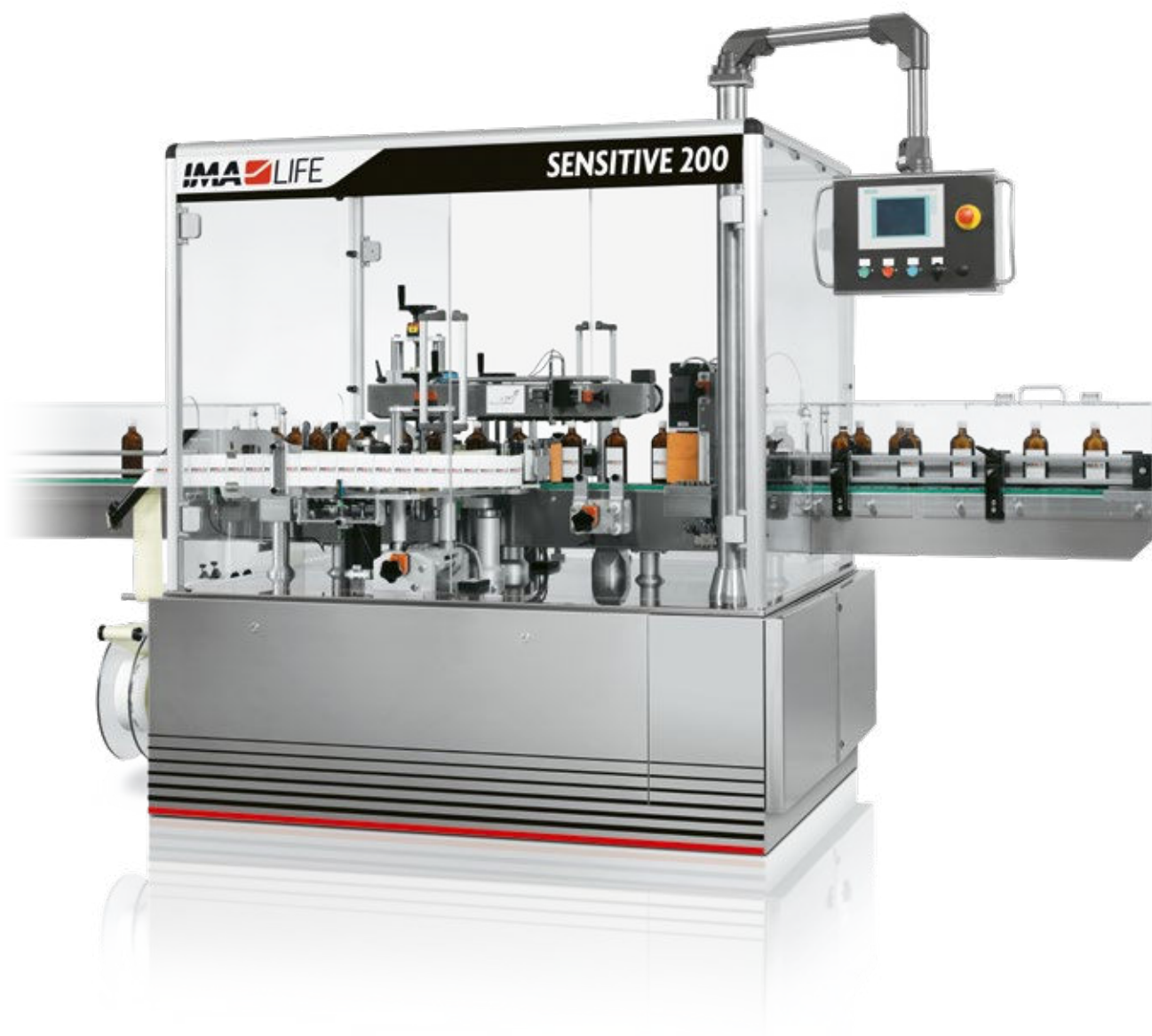
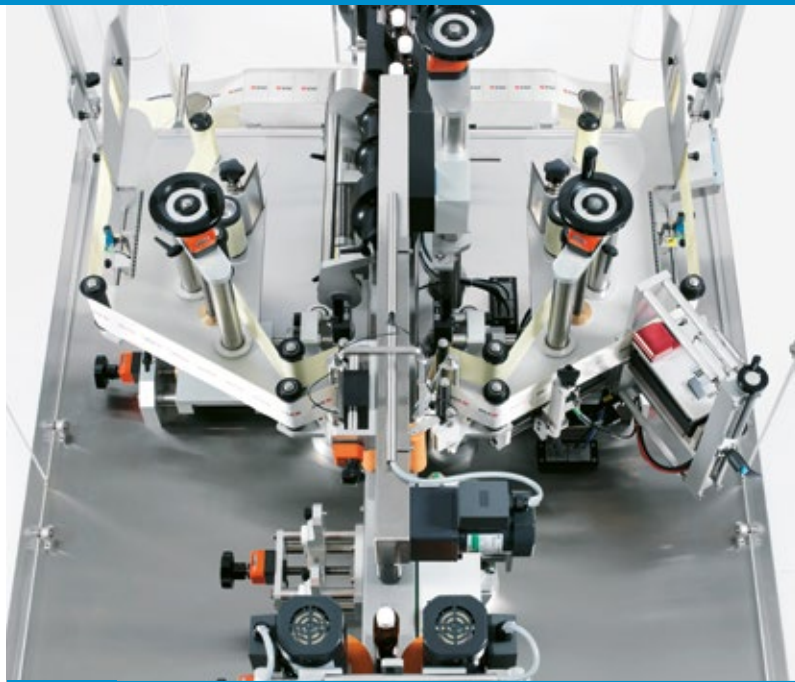
## DOUBLE EASY SPLICE

Continuous infeed of new label reels without machine interruption: a double Easy Splice reel carrier can be easily moved and positioned parallel to or perpendicular to the conveyor belt.

The unit comes complete with pre-alarm photoelectric cell on each reel, with acoustic and visual signals and a working surface to allow easy and quick connection of label reels.

# SENSITIVE 200

THE SENSITIVE 200 APPLIES SELF-ADHESIVE LABELS TO OVAL, ELLIPTICAL AND RECTANGULAR CONTAINERS AND EVEN TO CYLINDRICAL CONTAINERS (ONE LABEL ONLY).







## CONTAINER TRANSPORT

An independently driven conveyor belt, whose speed is synchronised with the machine's one, guides the containers to an infeed scroll which provides appropriate spacing between containers to allow for precise label application.

After the labelling phase, an outfeed belt drives the containers out of the machine.

## LABELLING UNIT

A stepping motor drives the label dispensing and application group. The dispensing unit is provided with a high-capacity backing paper recovery support controlled by a mechanical system ensuring constant paper tensioning.

The application groups are adjusted for quick regulation of the label position on the container. A fork photocell sensor detects label spacing on the reel and adjusts label release so that the label is always applied in the correct position on the container.

An upper conveyor belt and contrast heads keep square/oval containers in position during label application ensuring high labelling accuracy.

## CONTROL SYSTEM

The machine is PLC-controlled and equipped with an HMI for the supervision and monitoring of:

- Machine status
- Real-time production
- Label management
- Intervention of safety devices and alarms with clear description of the fault and relevant troubleshooting.

## ADDITIONAL FEATURES

- Can be equipped with one or two side heads, one opposite the other, according to the labelling requirements.
- Neat basement allowing the installation of additional units like cameras or printing devices.
- Double reel holders integrated on the side of the machine basement for manual change of label reel.
- Reel holders complete with automatic de-reeling and sensors for label end reel detection.

# SENSITIVE 350

THE SENSITIVE 350 APPLIES SELF-ADHESIVE WRAP AROUND LABELS TO CYLINDRICAL GLASS, METAL AND PLASTIC CONTAINERS.







## CONTAINER TRANSPORT

An independently driven conveyor belt, whose speed is synchronised with the machine's one, guides the containers to an infeed scroll which provides appropriate spacing between containers to allow for precise label application.

After the labelling phase, an outfeed belt drives the containers out of the machine.

## LABELLING UNIT

A stepping motor drives the label dispensing and application group. The application group is adjusted for quick regulation of the label position on the container.

A fork photocell sensor detects label spacing on the reel and adjusts label release so that the label is always applied in the correct position on the container.

## CONTROL SYSTEM

The machine is PLC-controlled and equipped with an HMI for the supervision and monitoring of:

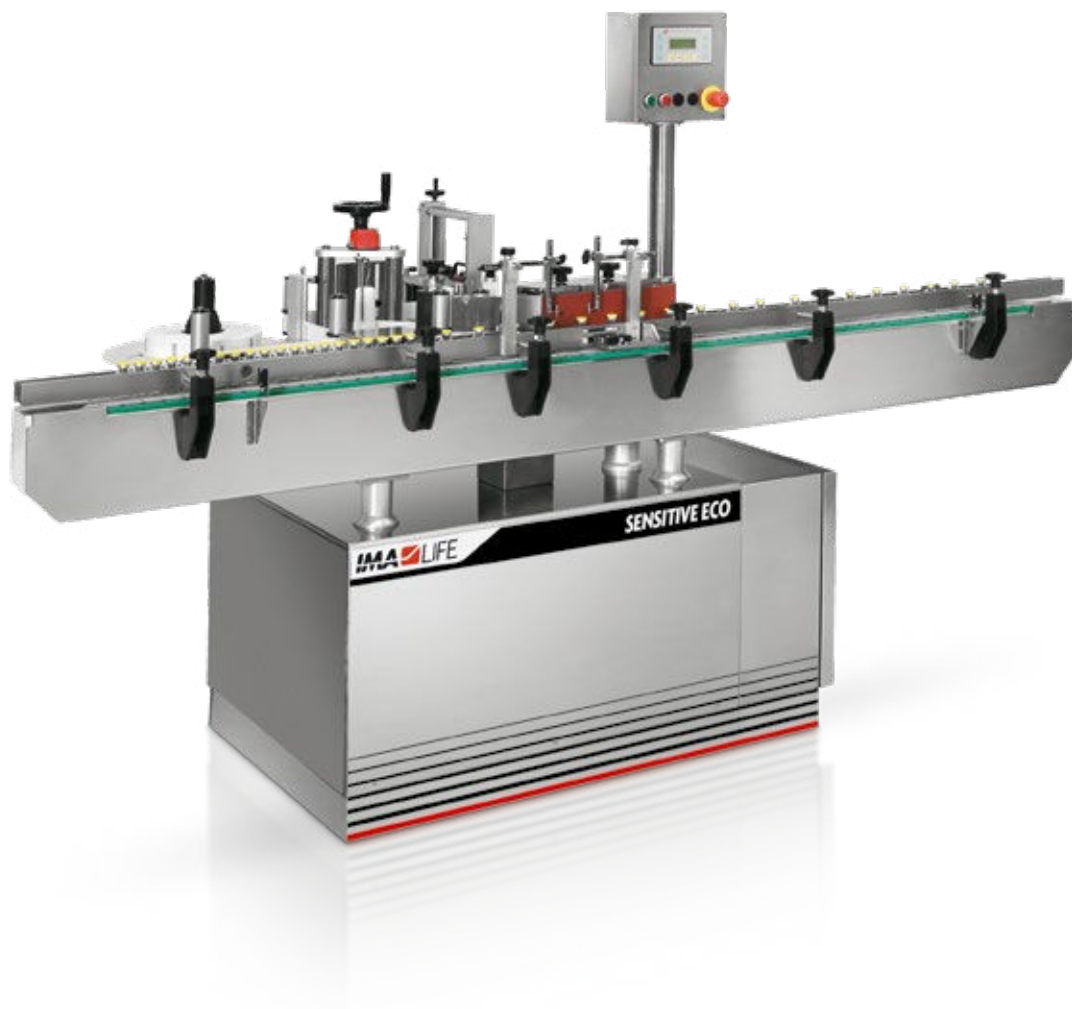
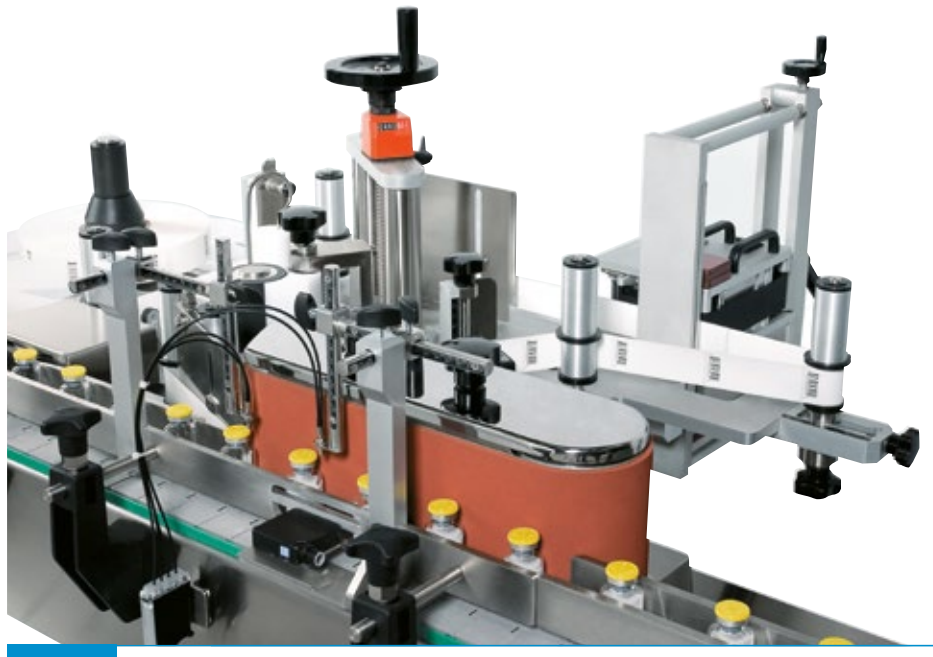
- Machine status
- Real-time production
- Label management
- Intervention of safety devices and alarms with clear description of the fault and relevant troubleshooting.

## ADDITIONAL FEATURES

- Can be equipped with one side head.
- Neat basement allowing the installation of additional units like cameras or printing devices.

# SENSITIVE ECO

THE SENSITIVE ECO APPLIES  
SELF-ADHESIVE LABELS TO  
CYLINDRICAL GLASS, METAL  
OR PLASTIC CONTAINERS.





## CONTAINER TRANSPORT

A conveyor belt, whose speed is synchronised with the machine's one, guides the containers to a spacing roller giving appropriate spacing between containers to allow for precise label application. After the labelling phase, an outfeed belt drives the containers out of the machine.

## LABELLING UNIT

A stepping motor drives the label dispensing and application group. The dispensing unit features a large-capacity recovery system controlled by a mechanical clutch, which keeps the paper constantly taut.

The application group is adjusted vertically by a handwheel for quick regulation of the label position on the container.

A fork photocell sensor detects label spacing on the reel and adjusts label release so that the label is always applied in the correct position on the container.

## CONTROL PANEL

Mounted on the front, facing the operator, the control panel is fitted with a touchscreen giving an overview of the main production counters (good and rejected units).

## ADDITIONAL FEATURES

- Can be equipped with one side head.
- Control system (EVER), electro-mechanical instrumentation and various power interlocks housed in the electrical panel under the machine work surface.



# SENSITIVE ECO LV

THE SENSITIVE ECO LV  
APPLIES SELF-ADHESIVE  
LABELS TO CYLINDRICAL  
LARGE-VOLUME GLASS OR  
PLASTIC CONTAINERS.





## CONTAINER TRANSPORT

An independently driven conveyor belt, whose speed is synchronised with the machine's one, guides the containers to a spacing unit for appropriate spacing between containers to allow for precise label application.

After the labelling phase, an outfeed belt drives the containers out of the machine.

## LABELLING UNIT

A stepping motor drives the label dispensing and application group. The dispensing unit is provided with a high-capacity backing paper recovery support controlled by a mechanical system ensuring constant paper tensioning.

The application group is adjusted for quick regulation of the label position on the container and is complete with a digital indicator handwheel.

A fork photocell sensor detects label spacing on the reel and adjusts label release so that the label is always applied in the correct position on the container.

## CONTROL SYSTEM

The machine is PLC-controlled and equipped with an HMI for the supervision and monitoring of:

- Machine status
- Real-time production
- Label management
- Intervention of safety devices and alarms with clear description of the fault and relevant troubleshooting.

## ADDITIONAL FEATURES

- Can be equipped with one side head.
- Neat basement allowing the installation of additional units like cameras or printing devices.
- Label reel holder integrated on the side of the machine basement for manual change of label reel.
- Reel holder complete with automatic de-reeling and sensors for label end reel detection.

# SENSITIVE ROTO

THE SENSITIVE ROTO INCLUDES FOUR MACHINE MODELS SUITABLE FOR APPLYING SELF-ADHESIVE LABELS TO BOTH SIDES OF OVAL, SQUARE OR RECTANGULAR BOTTLES, VIALS AND CYLINDRICAL CONTAINERS WITH UNUSUAL SHAPES. THE MODULAR DESIGN AND RANGE OF GROUPS THAT CAN BE INSTALLED ON THESE MACHINES MAKE THEM THE MOST FLEXIBLE SOLUTION FOR HIGH-SPEED LABELLING.







## CONTAINER TRANSPORT

An infeed scroll guides the containers to a starwheel which conveys them to the main carousel consisting of bottle holding platforms, shaped according to container's size, and of upper contrast heads keeping them stable during the label application phase.

## LABELLING UNIT

A servomotor drives each labelling unit allowing flexibility and simplicity of use.

The labelling units apply the labels during container rotation. Containers are always rotated and oriented before labelling.

A fork photocell sensor detects label spacing on the reel and adjusts label release so that the label is always applied in the correct position on the container.

## CONTROL SYSTEM

The machine is PLC-controlled and equipped with an HMI for the supervision and monitoring of:

- Machine status
- Real-time production
- Label management
- Intervention of safety devices and alarms with clear description of the fault and relevant troubleshooting.

## ADDITIONAL FEATURES

- Can be equipped with up to four labelling heads.
- Can use two labelling heads alternately in sequence for no-stop function.
- Can apply special three panel labels on square bottles.
- Can apply outserts, booklets and hanging labels.
- Labelling heads can be equipped with an integrated unwinding device.
- Brushless motors move each holding platform to ensure precise container position during the labelling phase.
- Neat basement allowing the installation of additional units like cameras or printing devices.

# OPTIONAL UNITS

MANY OPTIONAL UNITS  
ARE AVAILABLE UPON  
REQUEST.



MACHINE MODEL	SENSITIVE 200
Automatic backing paper unwinder without machine stop	■
Shredding unit	
Label presence check	■
Automatic bottle rejection with reject confirmation sensor	■
Hot-foil and thermal transfer overprinting units	■
Laser and inkjet overprinting units	■
Overprint control system	■
Single character overprint control system by videocamera (OCV, OCR)	■
Bar code or Data Matrix control system	■
Bar code reader	
Handling of extra-long labels	■
Can apply and control RFID labels and integration with e-pedigree	■
Integration with Track and Trace systems	
Allen Bradley PLC	■
Industrial PC on operator interface in case CFR21 compliance is required	■
End-of-printing-tape control sensor	■
Integrated infeed and outfeed rotary table	
Alternative larger transport belt and higher rollers	

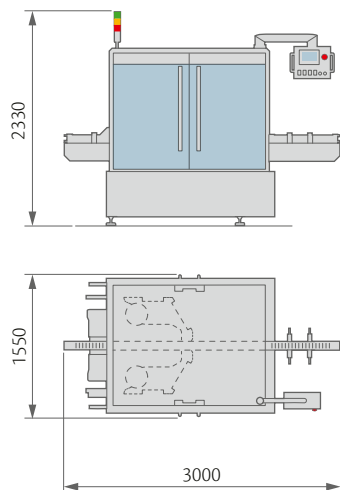


SENSITIVE 350	SENSITIVE ECO	SENSITIVE ECO LV	SENSITIVE ROTO
■		■	■
■			
■	■	■	■
■	■	■	■
■	■	■	■
■		■	■
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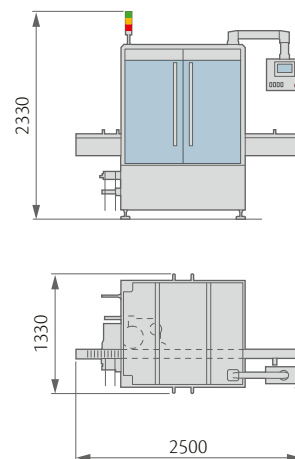


# TECHNICAL DATA

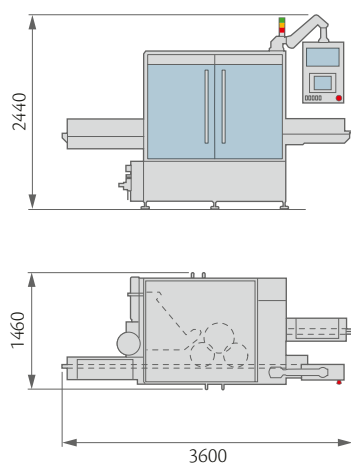
SENSITIVE 200



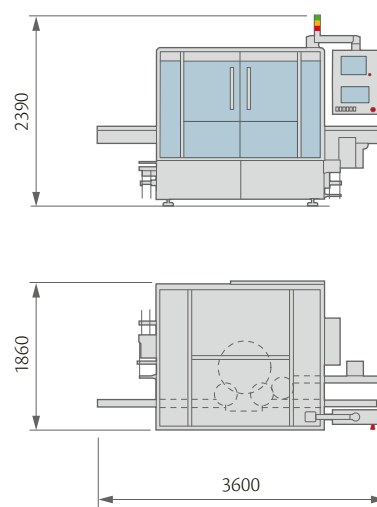
SENSITIVE 350



SENSITIVE ROTO 400



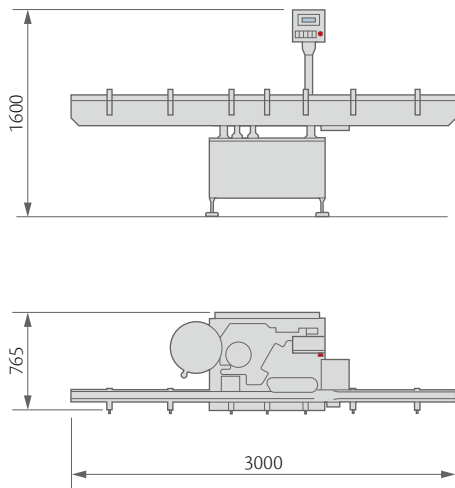
SENSITIVE ROTO 540



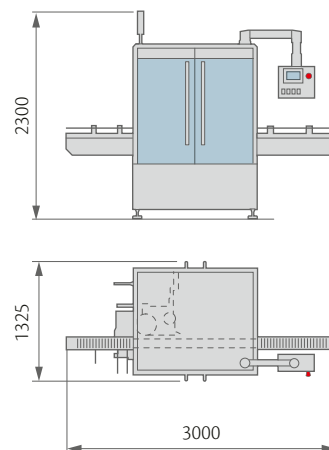
	Sensitive 200	Sensitive 350	Sensitive Eco	
Maximum output (pieces/minute)	200	350	200	
Installed power (kW)	2	2	1.5	
Standard voltage	400 V - 50 Hz	400 V - 50 Hz	400 V - 50 Hz	
Bottle maximum height (mm)	200	220	220	
Bottle diameter (mm)	16-78	16-78	16-78	
Label height (mm)	10-100	10-100	10-100	
Label length (mm)	15-250	15-250	15-250	
Label reel diameter (mm)	400	400	400	
Label accuracy (mm)	± 1	± 1	± 1	

\* 10-150 as an option for Sensitive Eco LV

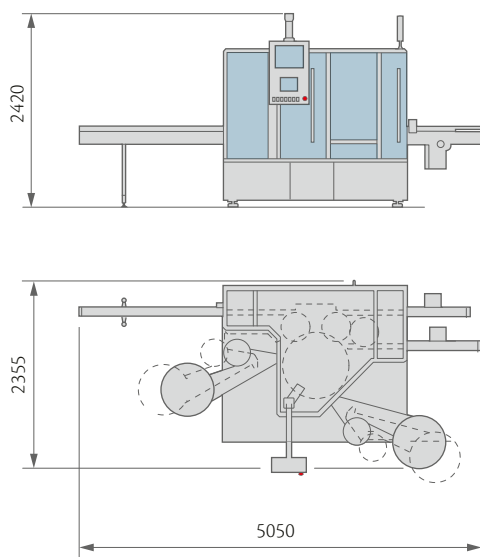
SENSITIVE ECO



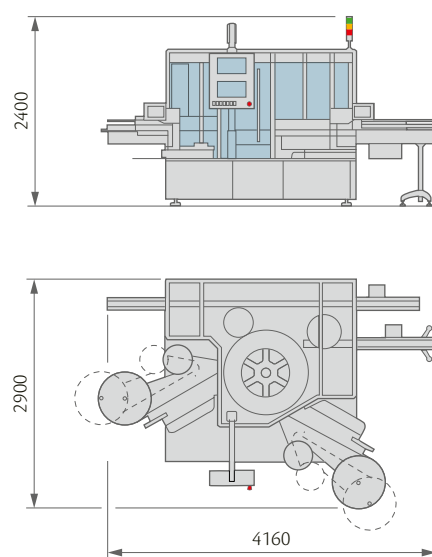
SENSITIVE ECO LV



SENSITIVE ROTO 720



SENSITIVE ROTO 960



Sensitive Eco LV	Sensitive Roto 400	Sensitive Roto 540	Sensitive Roto 720	Sensitive Roto 960
200	400	600	600	600
2	3	3	3	3
400 V - 50 Hz	400 V - 50 Hz	400 V - 50 Hz	400 V - 50 Hz	400 V - 50 Hz
220	220	220	220	220
16-120	16-86	16-86	16-86	16-86
10-100*	10-100	10-100	10-100	10-100
15-250	15-250	15-250	15-250	15-250
400	400	400	400	400
± 1	± 1	± 1	± 1	± 1

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IMA S.p.A. reserves the right to make any changes to the described machine characteristics.



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