



# **Our Mission**

Towards the future

#### » Excellence

CMP was imagined, projected and managed with the target of becoming a high-quality company. A strong moral system, the culture of changing and improving, the values and the responsibilities are the driving force of the modern companies which want to establish themselves in the market. All CMP employees should have clear that only through distinction (in method, inside and outside relationships, products and services) the company could guarantee its own future.

In an extremely competitive market the excellence aiming company must always be one step behind the competence and must set challenging targets with constant improvement and strongly innovative process. Only by encouraging this attitude the company will be able to create a winning team.

#### » Transparency

CMP believes a fundamental principle the sharing of processes, operating systems, technological innovations and each successful factor with all the people involved in the company. Information must freely circulate in the company. CMP commits itself to make clear to all external contacts its commercial policy, the goals to be reached and the tools to be used for such aim.

#### » Environment

The environmental protection and the risks prevention are fundamental points in CMP conduct. CMP promotes the energy conservation and the correct utilization of raw materials and recyclable products.





#### » Customers

Respect and fulfillment of the undertakings mean highly responsible behaviors and relations with customers to match the expectations and requirements defined in the contractual relationships. When dealing with Customers CMP uses a formal and prompt communication to make well clear the features and economic value of our products/services.

Contracts and communications with Customers are based on honesty and correctness, proficiency, transparency and co-operation. CMP aims to apply and preserve the mutual contracting relations. Each individual action is to be considered by customer a CMP action. CMP offers to Customer efficiency and liability. We listen to their needs converting them into a professional reply and receiving back a compensation.

#### » Open-mindedness

Thanks to the international relations CMP is receptive to new ideas and to the way in which people approach the views and knowledge of others both inside (among all employees) and outside (towards Customers). This does not mean that employees should be conventional or flattened towards their superiors, on the contrary everyone should be put in the proper condition to freely and openly express his/her opinion on technical and managing issues of his/her competence.

Open-mindedness is generally considered an important personal attribute to be part of CMP staff.

We at CMP see things in a whole new way.

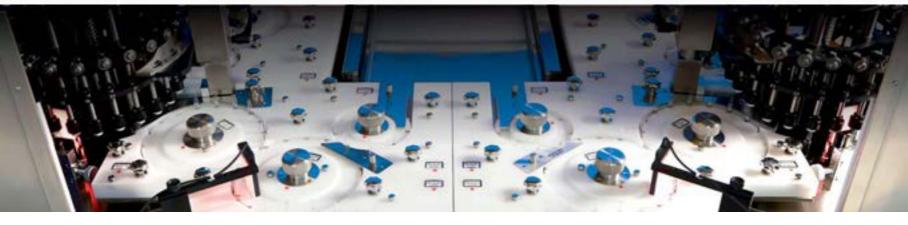
# Manufacturing Inspecting Machines

Experience since 1969





- » We are a dynamic company with a considerable background transmitted by people who believed in their work and talent
- » We have inherited this experience by constantly improving our skills and trying to satisfy our Customers' requirements
- » We have believed in our Partners' ideas and intuitions and put in practice our Customers' advices
- » We have built a stimulating and agreeable working environment because we believe that the Company can develop if everybody grows up inside it
- » We have founded our work on ethical principles to build a company where its value goes beyond the mere economic results
- » We have designed our future by investing in the human resources of our surroundings because we believe in the "Made in Italy" and in our Country.
- » We have always invested in research and development as they are the progress basis: simple and developed mechanical solutions, last generation vision systems, high-quality components





CMP inspection machines by TV cameras and magnifying lenses:

#### Inspections

- » Extraneous reflecting and non reflecting particles, fibres, glasses
  - » Correct filling level
- » Cosmetic control (shape, height, black spots, position of the cap)
- » Ring/cap colour control
- » Colour of the product
- » Glass defects
- » Plunger defects (for cartridges-syringes)

#### **CMP Software**

- » Up to 30 images per camera
- » Camera resolution 2 megapixels (other resolutions upon request)
- » 21 CFR part.11 compliant
- » Audit Trail

» User-friendly HMI made in CMP



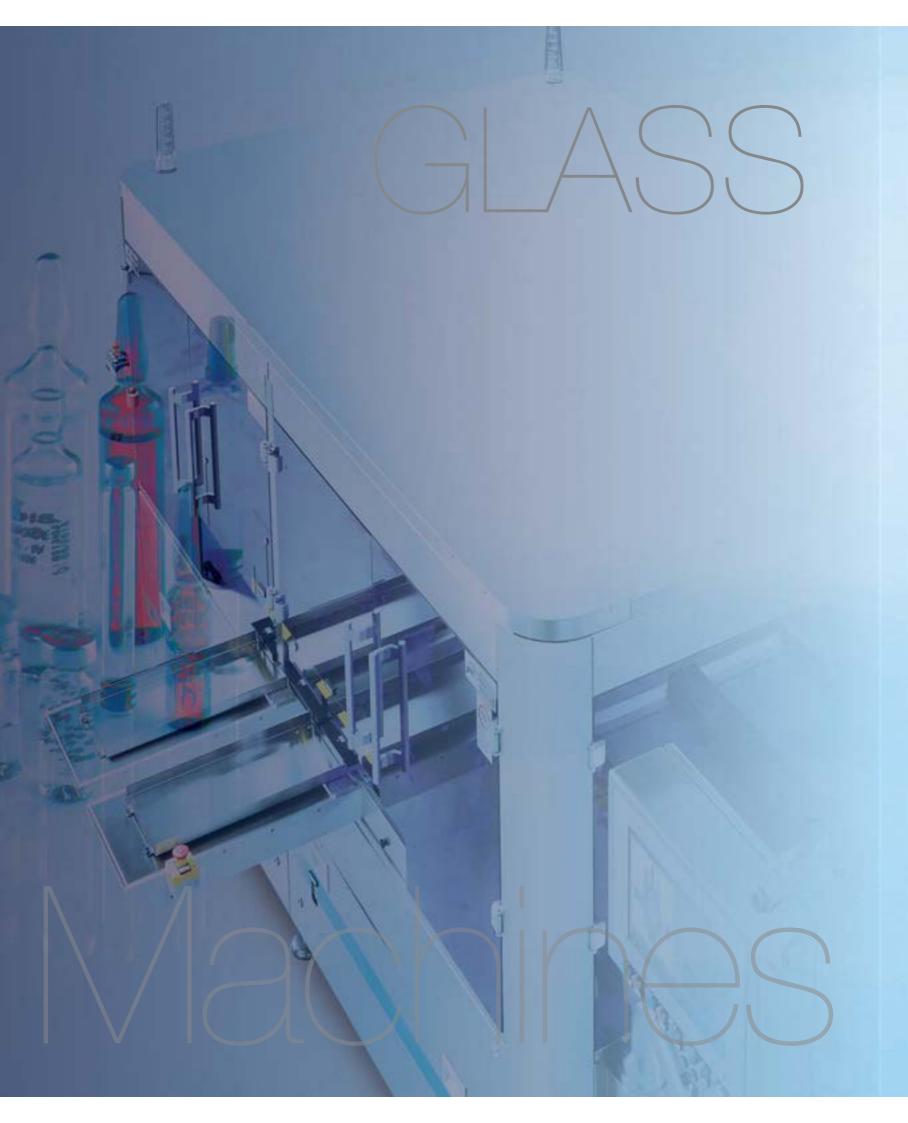
#### CMP Leak Test Machines:

- » Pinholes or little cracks detection by HVLD
   » Oxygen control by laser (TDLAS system)

# Standard fields of applications for GLASS and PLASTIC CONTAINERS » Ampoules inspection » Vials inspection » Bottles inspection » Cartridges inspection » Pre-filled syringes inspection » Bags inspection » Single-dose plastic strips







# Inspection Machine for ampoules, vials, cartridges or prefilled syringes





- · Ampoules vials, cartridges and pre-filled syringes
- Capacity: from 1 ml to 1000 ml
- · Liquids, freeze-dried or powder products

#### **INSPECTIONS**

- Extraneous reflecting and no reflecting particles, fibres, glasses
- Correct filling level
- Cosmetic control (shape, height, black spots, position of the cap)
- Ring/cap colour controlColour of the product
- Foreign bodies in lyo products
- PrintingGlass defects
- Plunger inspection (for cartridges)
- Leak test





Model SV is a semi-automatic machine for the inspection of liquids, lyophilized or powder products in ampoules, vials and cartridges or pre-filled syringes. The machine is equipped with brushless motors for fast rotation (before inspection) and slow rotation (during inspection) to guarantee a complete and efficient control of the product. The containers are conveyed to the inspection station where one operator inspects them through a magnifying lens. The rejected products are automatically collected in trays.

The machine could operate in line with other units or factory-set to be loaded and unloaded in trays with customized dimensions. This equipment could be configured as multiple inspection stations placed sequentially or in parallel according to the Customer's requirements





# Inspection Machine for ampoules, vials or cartridges

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- Ampoules, vials and cartridges
- Capacity: from 1 ml to 30 ml
- Liquids or freeze-dried products (cosmetic control)
- STANDARD INSPECTIONS
- Extraneous reflecting and no reflecting particles,
- fibres, glasses Correct filling level

#### **OPTIONAL INSPECTIONS**

- Cosmetic control (shape, height, black spots, ositical control (stape)
  position of the cap)
  Ring/cap colour control
  Colour of the product

- Printing Glass defects
- Plunger inspection (for cartridges)
- Leak test



In the CMP product range the SA6 is the more flexible solution. It was designed in 2010 to meet the requirements of Laboratories with small batches: its productivity up to 100 pcs/min and CMP software acquiring up to 30 images per camera makes the SA6 a suitable machine for many purposes. The possibility of using both back and bottom lights and CMP's software allows to customize the machine as necessary. Possible combination with leak test unit to check container integrity.





# Inspection Machine for ampoules, vials or cartridges

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- Ampoules, vials and cartridges
- Capacity: from 1 ml to 30 ml Liquids or freeze-dried products
- (cosmetic control)

#### STANDARD INSPECTIONS

- Extraneous reflecting and no reflecting
- particles, fibres, glassesCorrect filling level

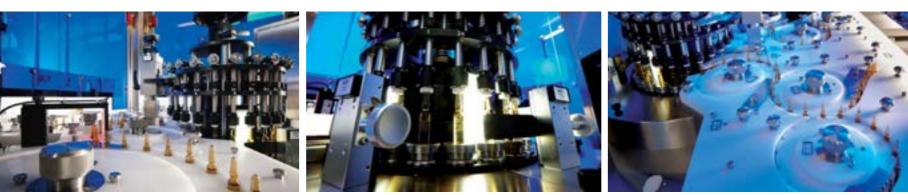
- OPTIONAL INSPECTIONS
   Cosmetic control (shape, height, black
- spots, position of the cap)  $\hat{}$
- Ring/cap colour control
  Colour of the product

- Printing Glass defects
- Plunger inspection (for cartridges)Leak test

The automatic inspection machine SA12 was designed to answer to our Customers' needs and advices. Thanks to a productivity up to 200 pcs/min and a compact design, the SA12 can handle ampoules, vials and cartridges with a capacity from 1 ml to 30 ml.

A combination of back and bottom lights and CMP's software allows to customize the machine as necessary.

Possible combination with leak test unit to check container integrity.





Inspection Machine for ampoules, vials or cartridges

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- Ampoules, vials and cartridges
- Capacity: from 1 ml to 30 ml
- Liquids or freeze-dried products (cosmetic control)

#### STANDARD INSPECTIONS

- Extraneous reflecting and no reflecting
- particles, fibres, glasses
- Correct filling level
- Leak test

# OPTIONAL INSPECTIONS • Cosmetic control (shape, height, black

- spots, position of the cap)
- Ring/cap colour control
  Colour of the product

- Printing Glass defects
- Plunger inspection (for cartridges)

Automatic inspection and leak test machine, RS1 was designed to combine CMP's knowhow and experience in camera visual inspection with HVLD (High Voltage Leak Detection) system.

The machine is equipped with 4 leak test stations and a rotation system in order to improve the quality of the control (360° total surface inspection). The productivity up to 200 pcs/min, the compact design and the performance level have set the RS1 as the leading unit in our production range.

RS1 can handle ampoules, vials and cartridges with a capacity from 1 ml to 30 ml. A combination of back and bottom lights and CMP's software allows to customize the machine as necessary.

The machine could be equipped with an integrated unit for product labelling





Inspection Machine for ampoules, vials or cartridges

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- Ampoules, vials and cartridges
- Capacity: from 1 ml to 30 ml Liquids or freeze-dried products
- (cosmetic control)

#### STANDARD INSPECTIONS

- Extraneous reflecting and non reflecting
- particles, fibres, glasses Correct filling level

- OPTIONAL INSPECTIONS
   Cosmetic control (shape, height, black
- spots, position of the cap) Ring/cap colour control Colour of the product

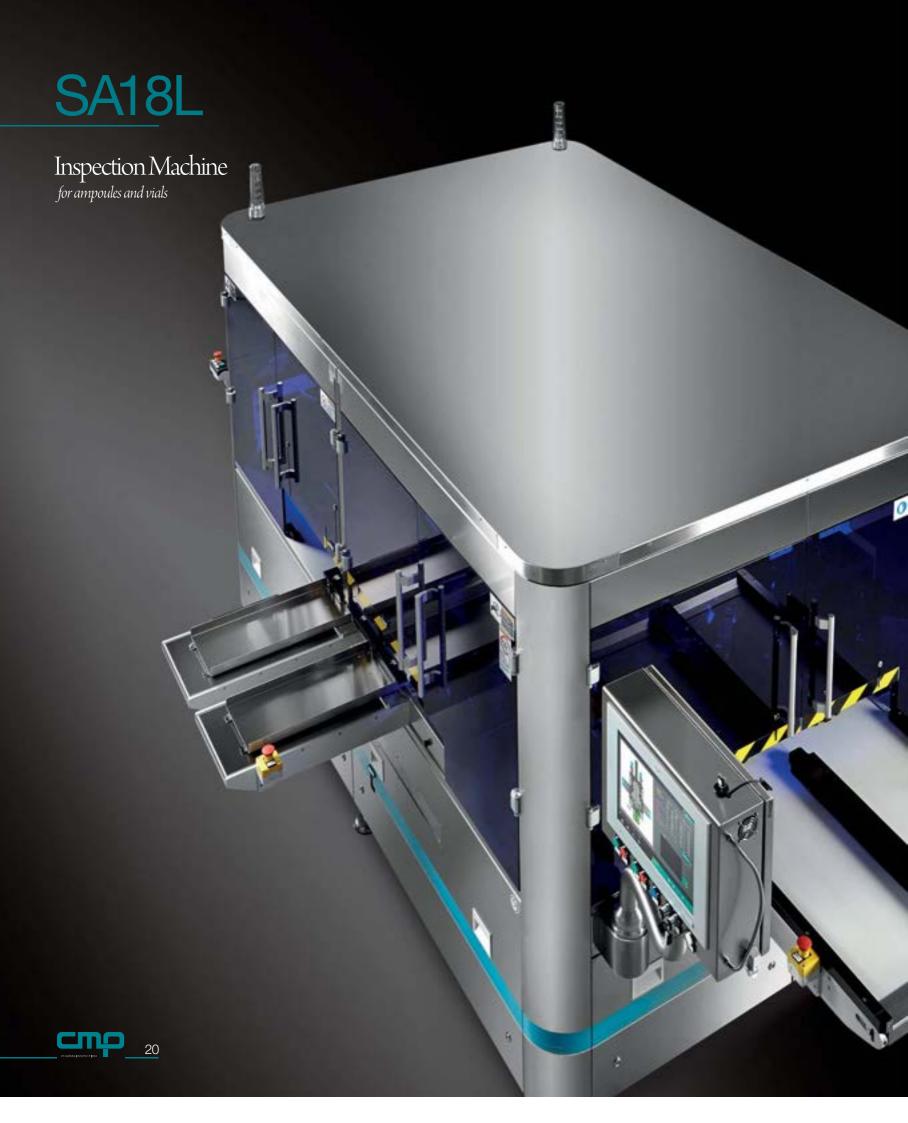
- Printing Glass defects
- Plunger inspection (for cartridges)
- Leak test

Automatic inspection machine with a max. production of 400 pcs/min for containers ranging from 1 ml to 30 ml. The use of high quality and reliability components allows to reach excellent performances according to the customer's requirements.

The **SA24** can operate by trays or alternatively can be installed in line. A combination of back and bottom lights and CMP's software allows to customize the machine as necessary.

Possible combination with leak test unit to check container integrity.









- Ampoules and vials • Range: max. diam. 46 mm
- max. height 120 mm Freeze-dried products

#### **INSPECTIONS**

- Foreign particles on the whole external surface of the lyo cake
- Correct cake height
- Cosmetic control of the tip/cap of container
- Colour of the productColour of the cap
- Glass defects
- Oxygen control to check container
- integrity or correct lyo process

Fully automatic inspection machine for freeze-dried products with a max. production output of 300 pcs/min for containers up to max. diam. 46 mm. The use of high quality and reliability components and the combina-tion of CCD and linear TV cameras leads to excellent inspection performances according to the customer's requirements.

Model SA18L can operate by trays or alternatively in line with other units.

Possible combination with Oxygen control by laser (TDLAS system) to check the container integrity.





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 Ampoules and vials • Capacity: from 1 ml to 30 ml

STANDARD INSPECTIONS

Hairline fissures and pinholes
Leaking ampoule neck tips

**LT01** is our core leak test machine: the rational and compact design makes this equipment suitable to be inserted in any production context. The system is based on High Voltage Leak Detection technology. It uses a high voltage electrical field and impedance measurement to make each container to be checked by No. 4 inspection units with customized electrodes. Its production output up to 400 pcs/min and the rotation system before and during inspection guarantee high quality performances.









# Leak Testing Machine for infusion bags









Infusion bagsCapacity: from 50 ml to 500 ml

#### STANDARD INSPECTIONS

Hairline fissures and pinholes
 Leaking sealing defects

Over the years, understanding the market input and the progression of the inspection requirements, we have been developing the leak test technology in order to increase our production range. **BS** is our leak test machine for infusion bags and its rational and compact design makes this equipment suitable to be inserted in any production context.

The system is based on the High Voltage Leak Detection technology by using a high voltage electrical field and impedance measurement to check each bag with customized electrodes.



# LT01S

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Leak Testing Machine







This model is a further step in the integrity control, and it is suitable for products packaged in single dose plastic strips.

The essential design, combined with the reliability of the HVLD system developed during the years by CMP, is the main characteristic of this brand new model. The system is based on the High Voltage Leak Detection technology by using a high voltage electrical field and impedance measurement to check the product with customized electrodes.



APPLICATION • Plastic strips • Height from 50 mm to 120 mm

STANDARD INSPECTIONS

Hairline fissures and pinholes

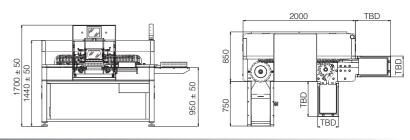
OPTIONAL INSPECTIONS
• Tv camera system for printing control

# Technical Data

# **SV\_** p.10



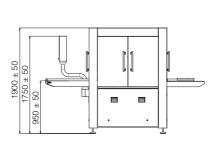
Production output	100 pcs/min (mechanical speed)
Range of diameters	From 8 to 78 mm
Max. height	150 mm
Power consumption	1,2 kW
Power supply	230 V single phase, 50-60 Hz
Compressed air	6 Bar
Air Consumption	100 lt/min
Weight	800 kg
Dimensions	2000 x 850 x 1700 h mm
Design	Complies with current GMP regulations.
	Software in compliance with 21 CFR part11

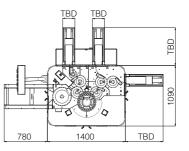


# **SA6\_** p.12



Production output	100 pcs/min
Range of diameters	From 8 to 32 mm
Max. height	110 mm
Power consumption	3 kW
Power supply	230 V single phase, 50-60 Hz
Compressed air	6 Bar
Air Consumption	200 lt/min
Weight	1200 kg
Dimensions	2180 x 1390 x 1850 h mm
Design	Complies with current GMP regulations.
	Software in compliance with 21 CFR part11



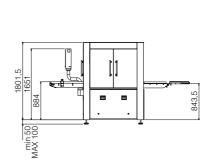


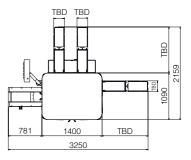


### **SA12\_** p.14



Production output	200 pcs/min
Range of diameters	From 8 to 32 mm
Max. height	110 mm
Power consumption	3 kW
Power supply	230 V single phase, 50-60 Hz
Compressed air	6 Bar
Air Consumption	200 lt/min
Weight	1200 kg
Dimensions	2180 x 1390 x 1850 h mm
Design	Complies with current GMP regulations.
	Software in compliance with 21 CFR part11

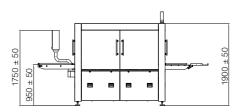


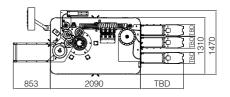


# **RS1\_** p.16



Production output	200 pcs/min
Range of diameters	From 8 to 32 mm
Min. liquid conductivity	1,5/2 µs
Max. height	110 mm
Power consumption	3 kW
Power supply	230 V single phase, 50-60 Hz
Compressed air	6 Bar
Air Consumption	200 lt/min
Weight	1400 kg
Dimensions	2940 x 1470 x 1850 h mm
Design	Complies with current GMP regulations.
	Software in compliance with 21 CFR part11



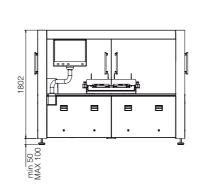


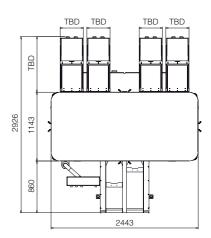
# Technical Data

### **SA24\_** p.18



Production output	400 pcs/min
Range of diameters	From 8 to 32 mm
Max. height	110 mm
Power consumption	6 kW
Power supply	230 V single phase, 50-60 Hz
Compressed air	6 Bar
Air Consumption	400 lt/min
Weight	2200 kg
Dimensions	2440 x 2000 x 1850 h mm
Design	Complies with current GMP regulations.
	Software in compliance with 21 CFR part11

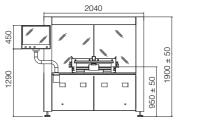




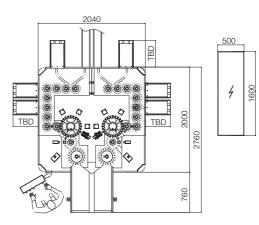
### SA18L\_ p.20



Production output	300 pcs/min
Range of diameters	From 8 to 46mm
Max. height	110 mm
Power consumption	6 kW
Power supply	400 V 3-phase, 50-60 Hz
Compressed air	6 Bar
Air Consumption	400 lt/min
Weight	2200 kg
Dimensions	2040 x 2760 x 1850 h mm
Design	Complies with current GMP regulations.
	Software in compliance with 21 CFR part11





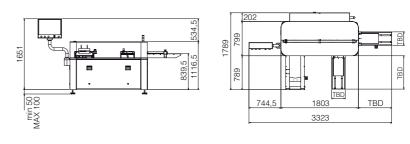




# LT01\_p.22



Production output	400 pcs/min
Range of diameters	From 8 to 32 mm
Max. height	110 mm
Power consumption	2 kW
Power supply	230 V single phase, 50-60 Hz
Compressed air	6 Bar
Air Consumption	100 lt/min
Weight	800 kg
Dimensions	1800 x 1790 x 1700 h mm
Min. liquid conductivity	1,5/2 µs
Design	Complies with current GMP regulations
	Software in compliance with 21 CFR part11

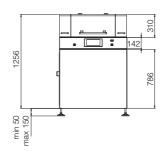


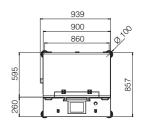
# **Technical Data**

### **BS\_** p.26



Production output	10 pcs/min
Bag capacity	Up to 500 ml
Min. liquid conductivity	1,5/2 µs
Max. height	300 mm
Power consumption	1,5 kW
Power supply	230 V single-phase 50-60 Hz
Weight	50 Kg
Dimensions	1000 x 860 x 1300 h mm
Design	Complies with current GMP regulations. Software in compliance with 21 CFR part11

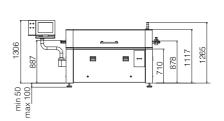


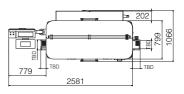


# LT01S\_ p.28



Production output	500 pcs/min (100 strip/min)
Max. height	120 mm
Power consumption	2 kW
Power supply	230 V single phase, 50-60 Hz
Compressed air	6 Bar
Air Consumption	100 lt/min
Weight	800 kg
Dimensions	2600 x 1070 x 1400 h mm
Min. liquid conductivity	1,5/2 µs
Design	Complies with current GMP regulations.
	Software in compliance with 21 CFR part11







# The only source of knowledge is experience

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