



www.cmp-pharma.it

Our History

Experience since 1969

2014 - Today

2008 - 2013

1992 - 2007

1985 - 1991

1980 - 1982

1975 - 1980

Washing machines
for ampoules and vials
Manual inspecting
machines

Mod. SA6 First
Laser-ray automatic
inspecting machine
CE patented.
The first machine
in the world displaying
the picture of the
product on a video

Mod. SA7
Laser ray inspecting
machine.
The first machine
equipped with
Apple II computer

Inspecting Machine
Mod. SA7E
equipped with
Sony cameras

New generation
inspection machines
with digital cameras
up to 36 images
for each container

New inspection
system, digital
cameras up to
90 images for
each container

CMP Pharma

Towards the future



We are a young and dynamic Company with long history behind

Our development relies on each Customer's needs and Markets' demands, seeking the best way to offer the best products by:

- » Young and motivated personnel
- » High quality components
- » Constant and innovative quest for improvements

We aim for going beyond the mere Supplier-Purchaser relation as Customer loyalty is the best acknowledgment for our work.

CMP PHARMA can and want to offer the best possible product with best service and assistance.

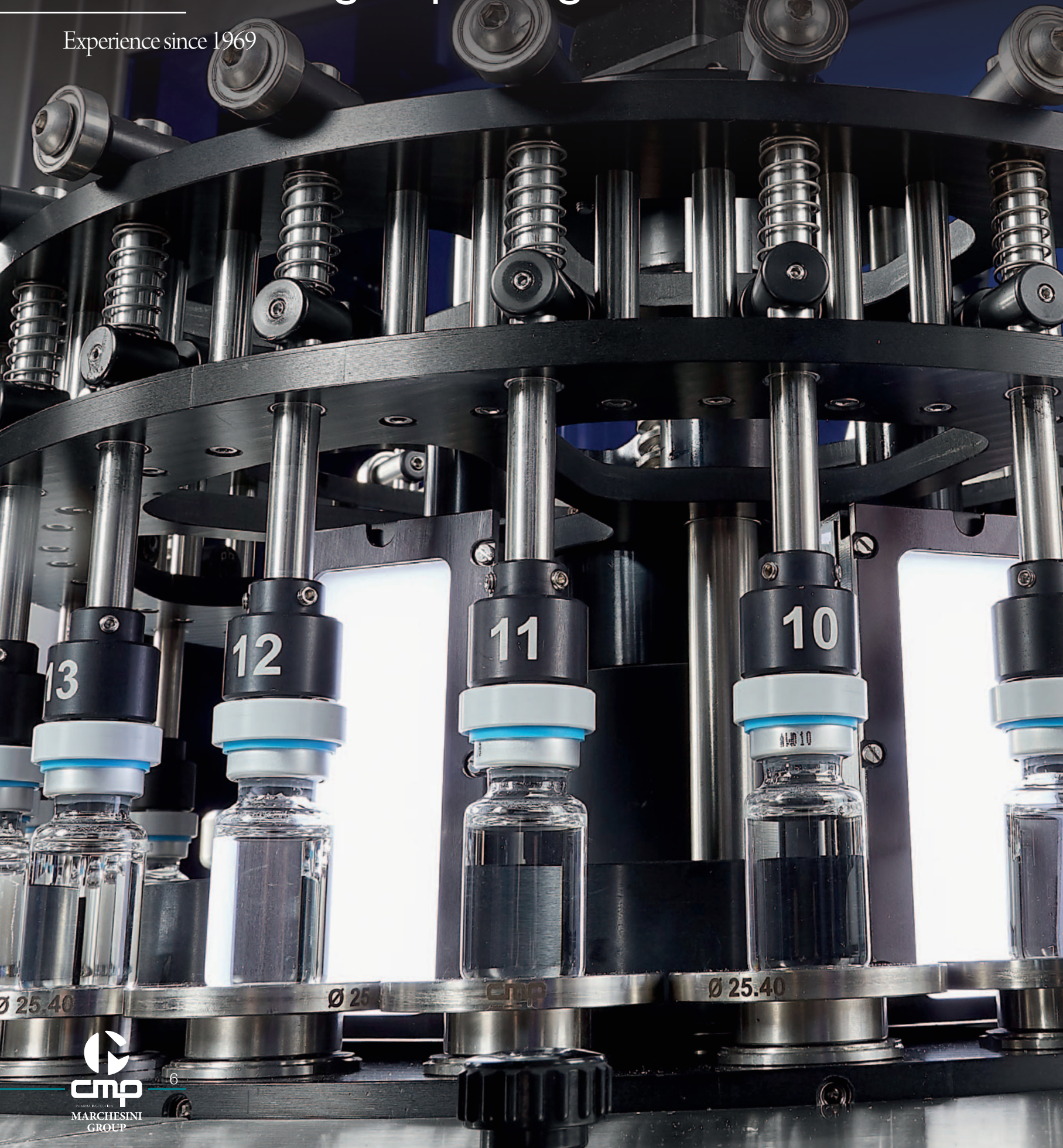
"One factory is first of all made of men, then of machinery and at last by walls"

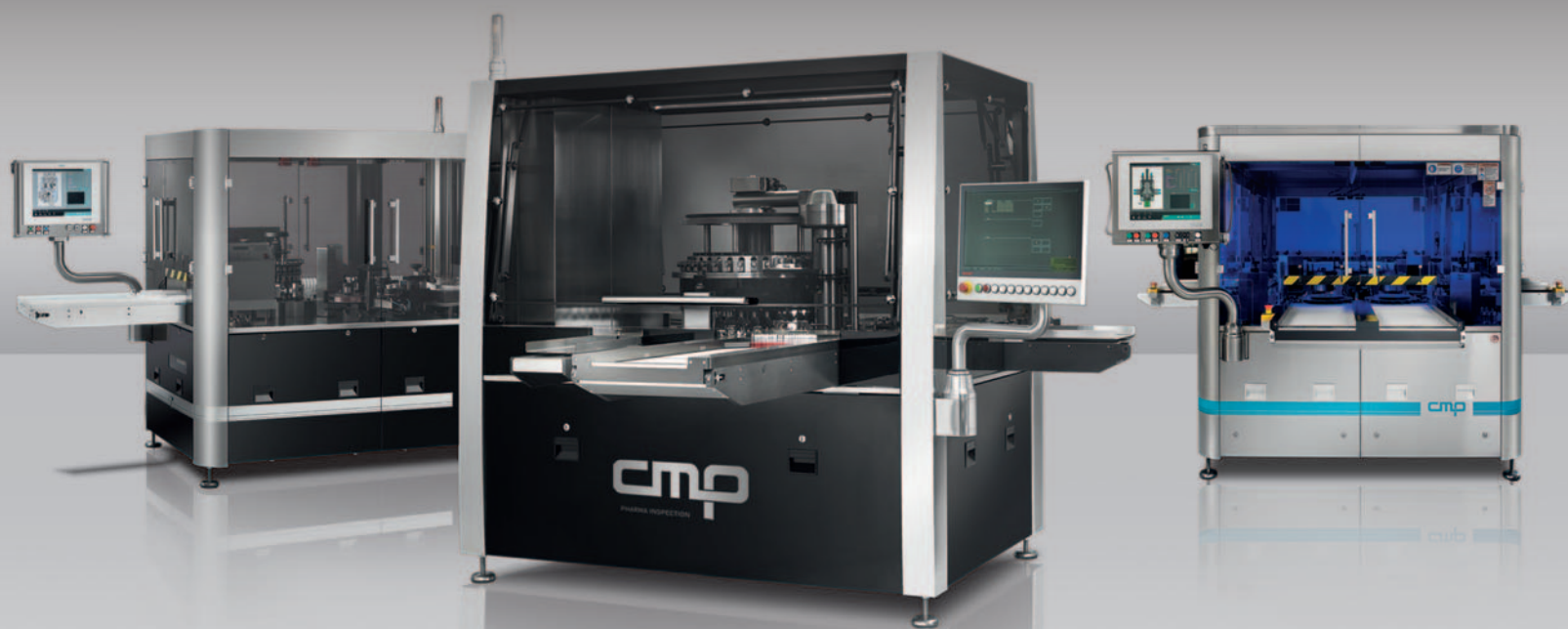
Enzo Ferrari



Manufacturing Inspecting Machines

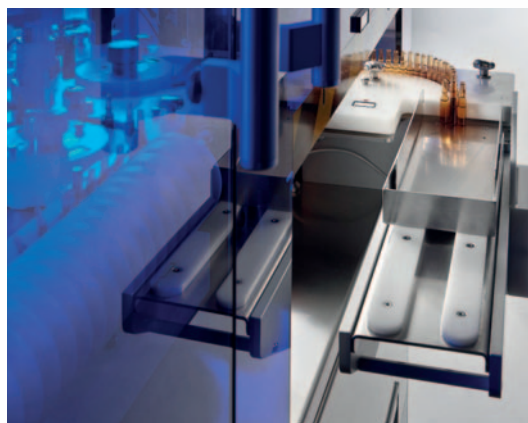
Experience since 1969





- » 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



Inspection at its best

Experience since 1969





CMP inspection machines by cameras and magnifying lenses:

Inspections

- » Extraneous reflecting and no reflecting particles, fibres, glasses
- » Correct filling level
- » Cosmetic tip/cap control (shape, height, black spots, position of the cap)
- » Ring/cap colour control
- » Colour of the product
- » Sidewalls 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
- » Single-dose plastic strips



SV 100 pcs/min



Inspection Machine

*for ampoules, vials and cartridges
or prefilled syringes.*



APPLICATION

- Ampoules vials, cartridges and pre-filled syringes *
- Capacity: from 1 ml to 1000 ml
- Liquid, 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 control
- Colour of the product
- Foreign bodies in lyo products
- Printing
- Glass defects
- Plunger inspection (for cartridges)



Model **SV** is a semi-automatic machine for the inspection of liquid, 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.

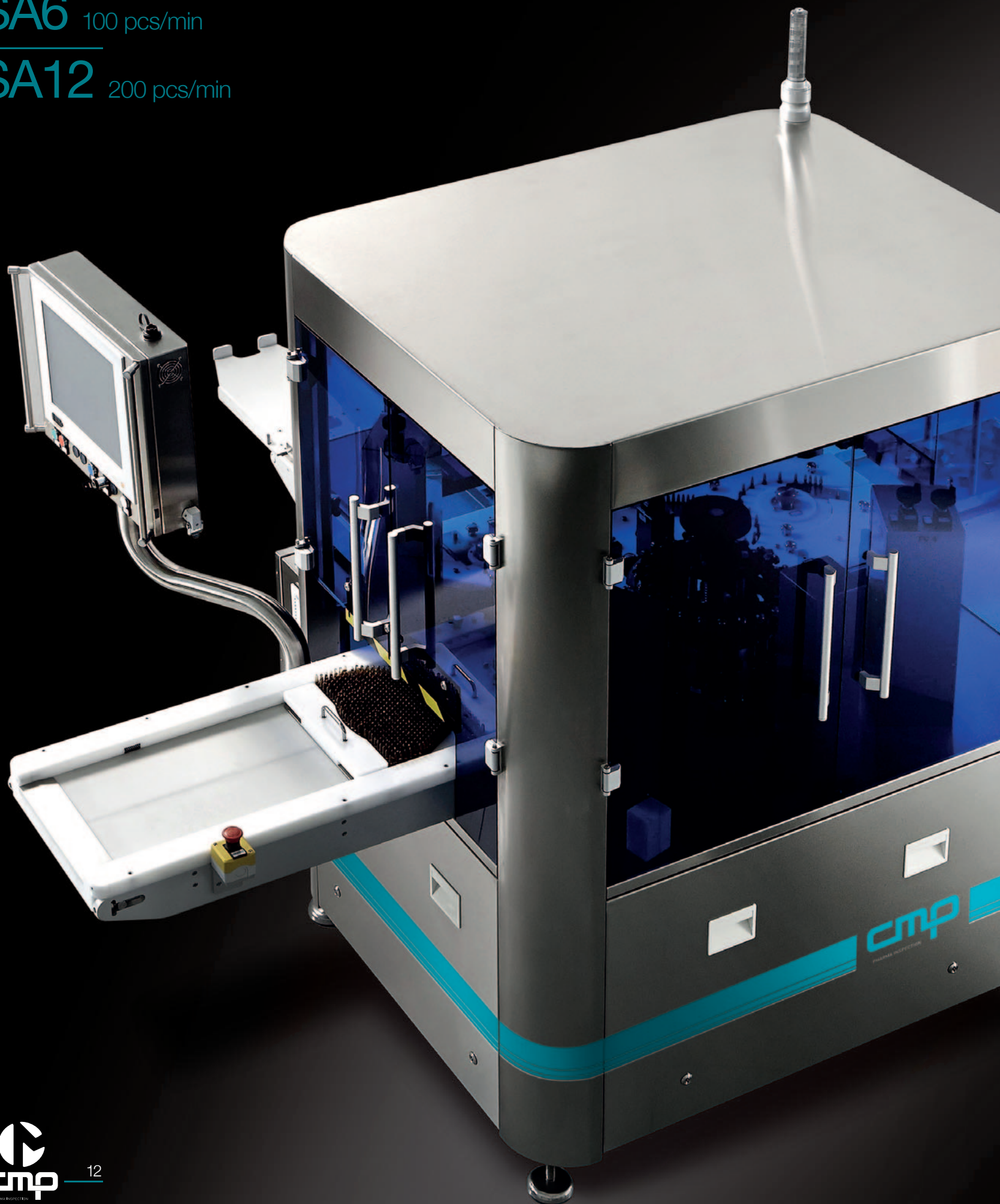
* Dedicated machine

* Dedicated machine



SA6 100 pcs/min

SA12 200 pcs/min



Inspection Machine

for ampoules, vials and cartridges



APPLICATION

- Ampoules, vials and cartridges
- Capacity: from 1 ml to 30 ml

STANDARD INSPECTIONS

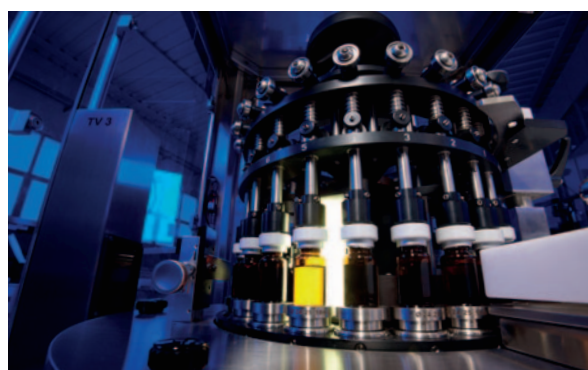
- Extraneous reflecting and no reflecting particles, fibres, glasses
- Correct filling level

OPTIONAL INSPECTIONS

- Tip/cap cosmetic control (shape, height, black spots, position of the cap)
- Ring/cap colour control
- Colour of the product
- Printing
- Sidewalls glass defects
- Plunger inspection (for cartridges)

In CMP product range **SA6** and **SA12** models are the more flexible solution. They were designed in 2010 to meet the requirements of Laboratories with small batches: their productivities up to 100 and 200 pcs/min and CMP software acquiring up to 30 images per camera make **SA6** and **SA12** suitable machines for many purposes.

The possibility of using both back and bottom lights and CMP's software allows to customize the machine as necessary.



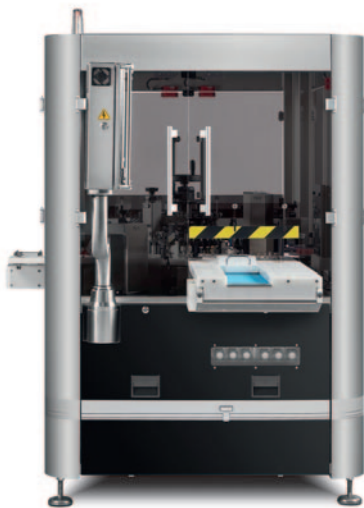
RS1 200 pcs/min

RS2 400 pcs/min



Inspection Machine

for ampoules, vials and cartridges



APPLICATION

- Ampoules, vials and cartridges
- Capacity: from 1 ml to 30 ml

STANDARD INSPECTIONS

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

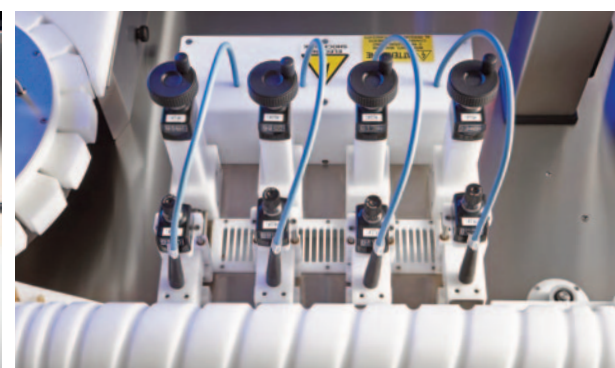
OPTIONAL INSPECTIONS

- Tip/cap cosmetic control (shape, height, black spots, position of the cap)
- Ring/cap colour control
- Colour of the product
- Printing
- Sidewalls glass defects
- Plunger inspection (for cartridges)

Automatic inspection and leak test machine, **RS1 / RS2** were designed to combine CMP's know-how and experience in camera visual inspection with HVLD (High Voltage Leak Detection) system.

The machines are 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 and 400 pcs/min, the compact design and the performance level have set these models as leading units in our production range.

RS1 / RS2 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 machines as necessary.



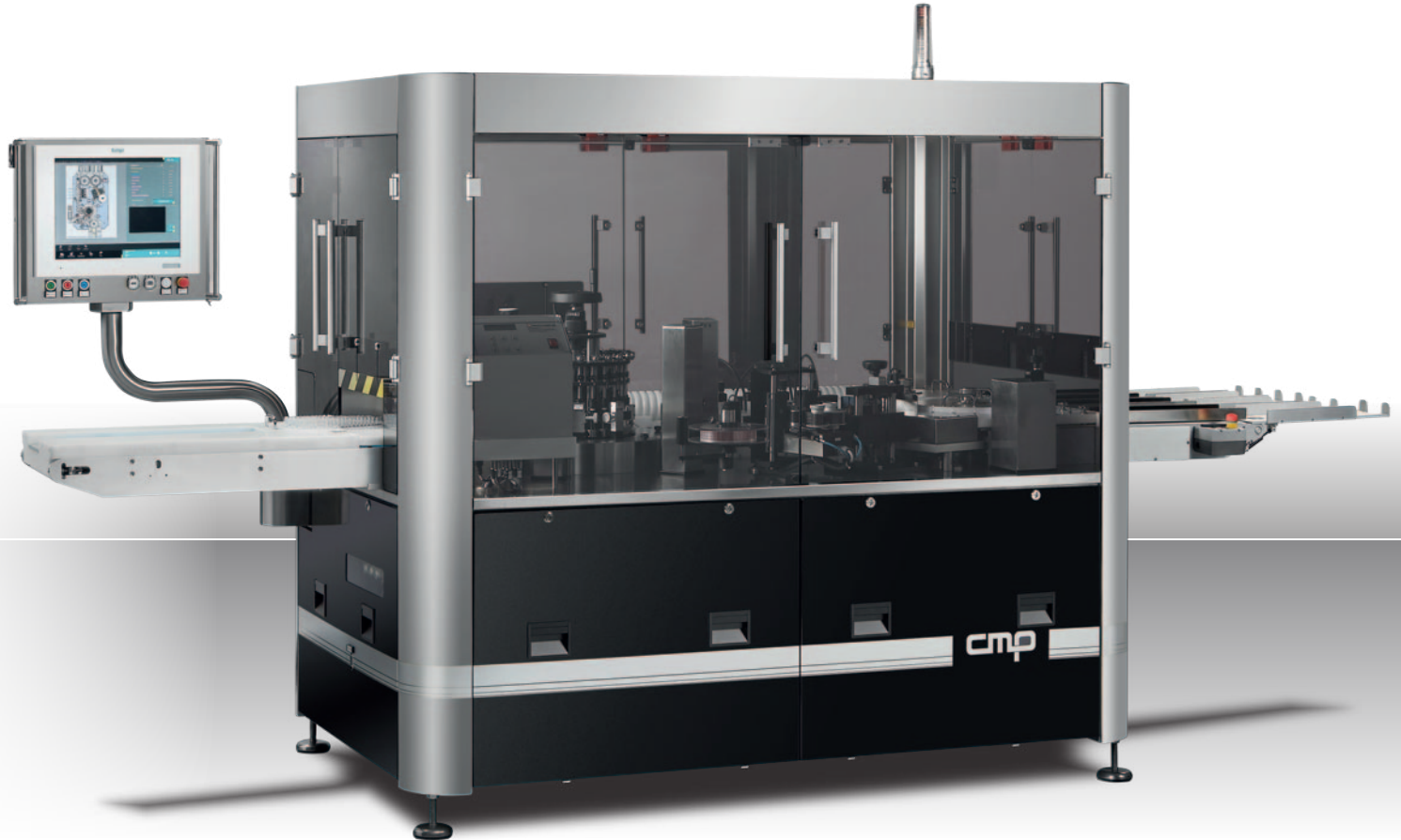
RS1-LAB 200 pcs/min

RS2-LAB 400 pcs/min



Camera Inspection - Leak Test - Labelling

for ampoules, vials and cartridges



APPLICATION

- Ampoules, vials and cartridges
- Capacity: from 1 ml to 30 ml

STANDARD INSPECTIONS

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

OPTIONAL INSPECTIONS

- Tip/cap cosmetic control (shape, height, black pots, position of the cap)
- Ring/cap colour control
- Colour of the product
- Printing
- Sidewalls glass defects
- Plunger inspection (for cartridges)

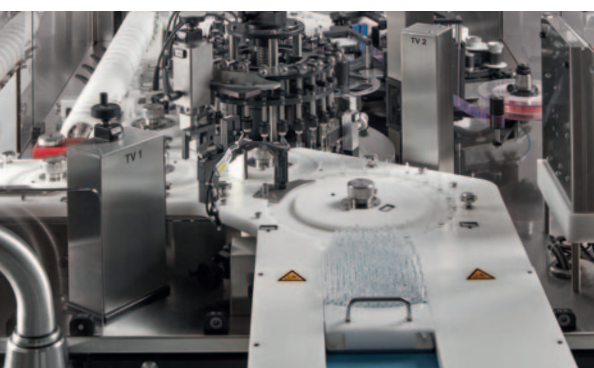
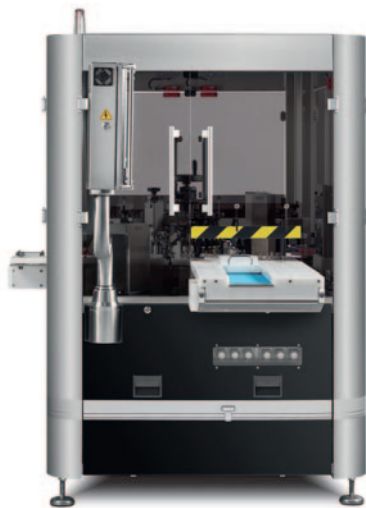
Automatic inspection and leak test machine, **RS1-LAB / RS2-LAB** were designed to combine CMP's know-how and experience in camera visual inspection with HVLD (High Voltage Leak Detection) system.

Furthermore these models are equipped with an integrated labelling unit for the products which passed all the previous inspections

The machines are 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 and 400 pcs/min, the compact design and the performance level have set the **RS1-LAB / RS2-LAB** as the leading units in our production range.

RS1-LAB / RS2-LAB 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 machines as necessary.



N400 400 pcs/min

N400-LT 400 pcs/min



Inspection Machine

for ampoules, vials and cartridges



APPLICATION

- Ampoules, vials and cartridges
- Capacity: from 1 ml to 30 ml

STANDARD INSPECTIONS

- Extraneous reflecting and no reflecting particles, fibres, glasses
- Correct filling level
- Leak test (NIKE-LT)

OPTIONAL INSPECTIONS

- Tip/cap cosmetic control (shape, height, black spots, position of the cap)
- Ring/cap colour control
- Colour of the product
- Printing
- Sidewalls glass defects
- Plunger inspection (for cartridges)

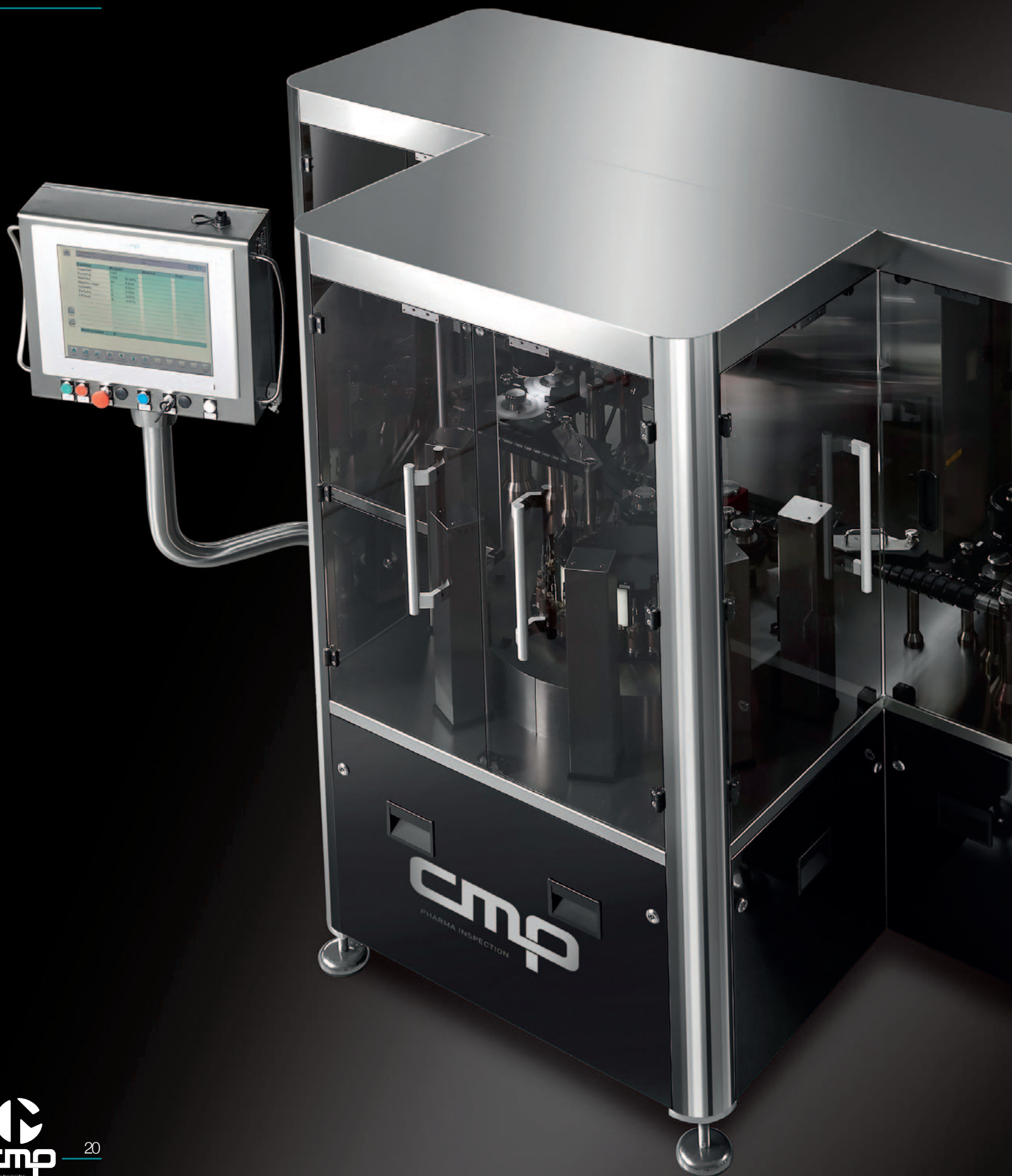
This continuous motion inspection machine can reach a production output up to 400 pcs/min. This high technology product is the result of many years of studies and refining to get the chasing cameras inspection system which does not require adjustments

The model **N400** is an automatic inspection unit for standard controls (tip/cap, foreign particles, fill level) which can be combined with the leak test unit (**N400-LT**) to get a more exhaustive inspection equipment.

Thanks to its sophisticated design, the color match and the overall quality, this model is the real pride of Italian style.



SA12J 200 pcs/min



Inspection Machine

for pre-filled syringes



APPLICATION

- Capacity: from Ø6.85 mm up to Ø14.45 mm

STANDARD INSPECTIONS

- Extraneous particles, fibres, glasses
- Stopper control (position and liquid between ribs)
- Needle shield inspection
- Correct filling level
- Flange defects before the main turret

OPTIONAL INSPECTIONS

- Colour of the product
- Flange defects after the main turret
- Leak test

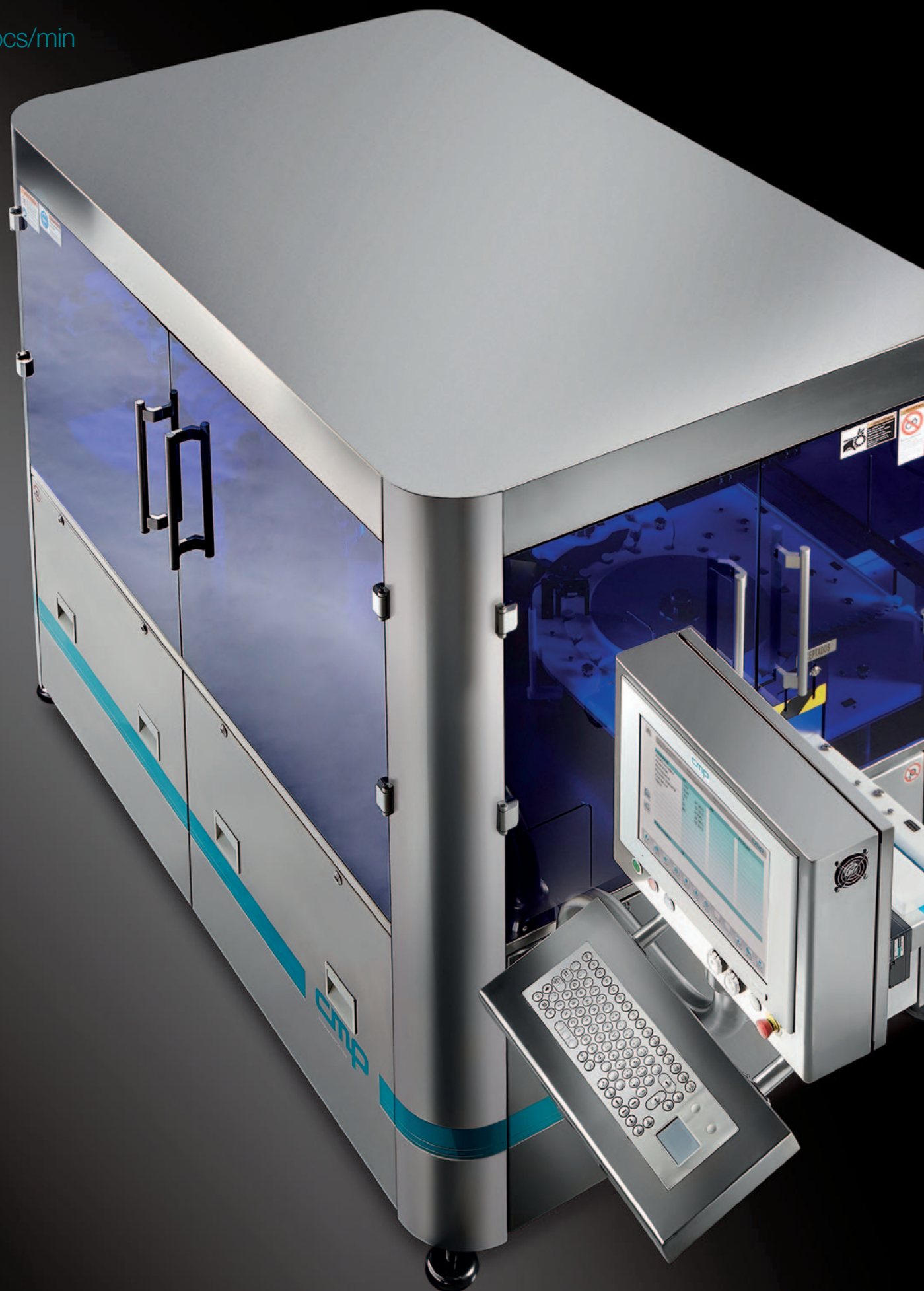


Automatic inspection machine model SA12J is a compact unit, designed to perform the most accurate controls of prefilled syringes. SA12J reaches a productivity of 200 pcs/min. It is possible to combine this machine with leak test unit to check containers' integrity.



SA9F 150 pcs/min

SA10 100 pcs/min



Inspection Machine

for ampoules, vials and bottles



APPLICATION

- SA9F capacity: from 1 ml to 100 ml
- SA10 capacity: from 5 ml to 500 ml

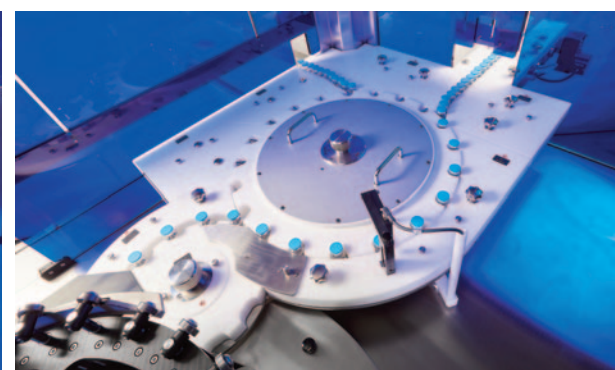
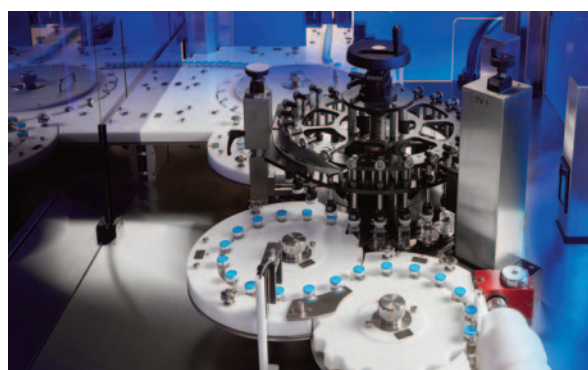
STANDARD INSPECTIONS

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

OPTIONAL INSPECTIONS

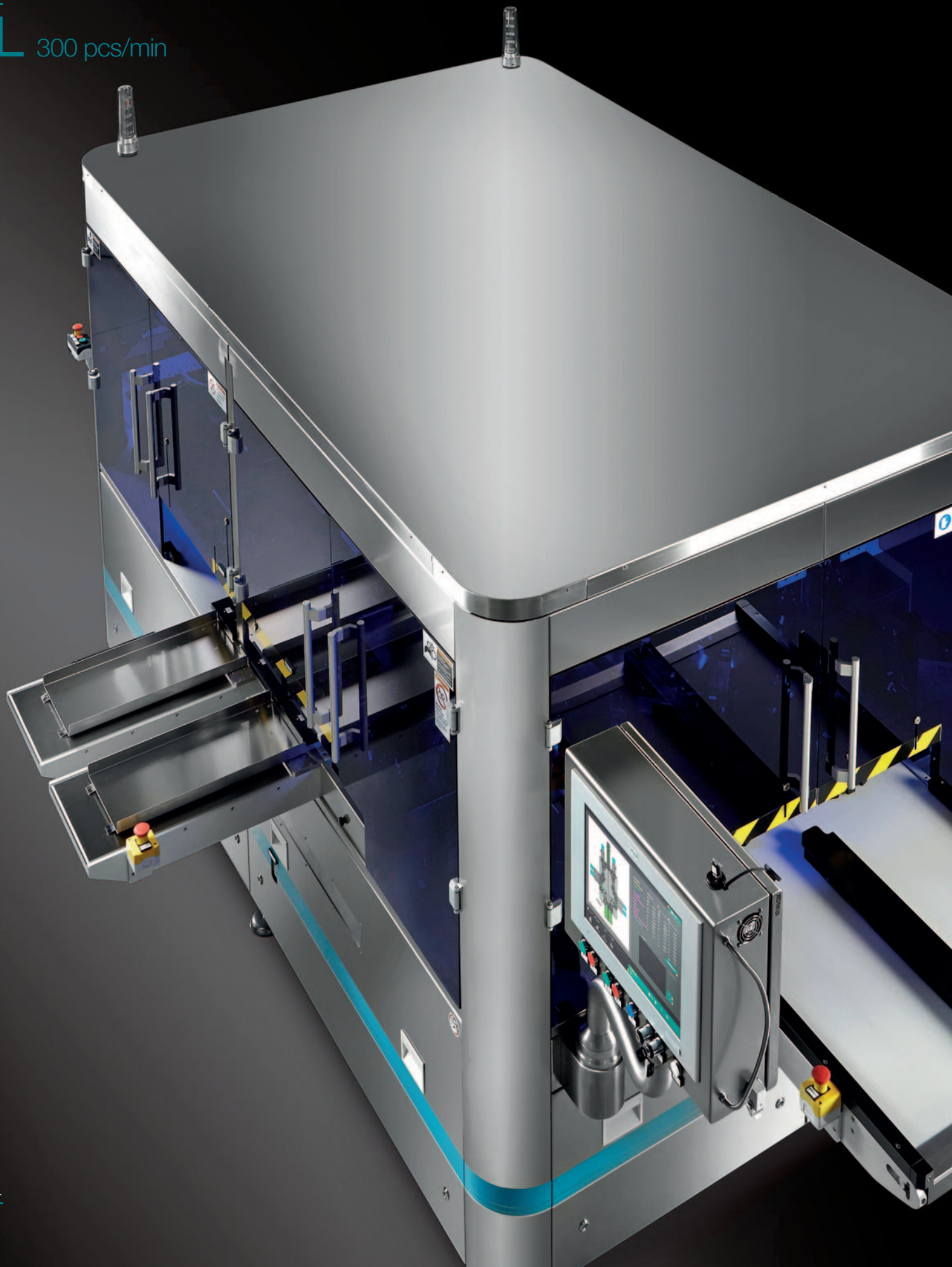
- Tip/cap cosmetic control (shape, height, black spots, position of the cap)
- Ring/cap colour control
- Colour of the product
- Sidewalls glass defects

Models **SA9F** and **SA10** are automatic inspection machines to inspect ampoules (only SA9F) and vials with capacity up to 500ml (SA10). The maximum production outputs is 150 pcs/min for **SA9F** and 100 pcs/min for **SA10**. These models are suitable to operate both stand alone and in line with other machines.



SA9L 150 pcs/min

SA18L 300 pcs/min



Inspection Machine

for vials with lyo product



APPLICATION

- Range: max. diam. 46 mm
max. height 110 mm
- Freeze-dried products

INSPECTIONS

- Foreign particles on the whole external surface of the lyo cake
- Correct cake height
- Tip/cap cosmetic control
- Colour of the product
- Colour of the cap
- Sidewalls glass defects
- Oxygen control to check container integrity or correct lyo process

Fully automatic inspection machines for freeze-dried products with a max. production output of 150 and 300 pcs/min for containers up to max. diam. 46 mm.

The use of high quality and reliability components and the combination of CCD and linear TV cameras leads to excellent inspection performances according to the customer's requirements.

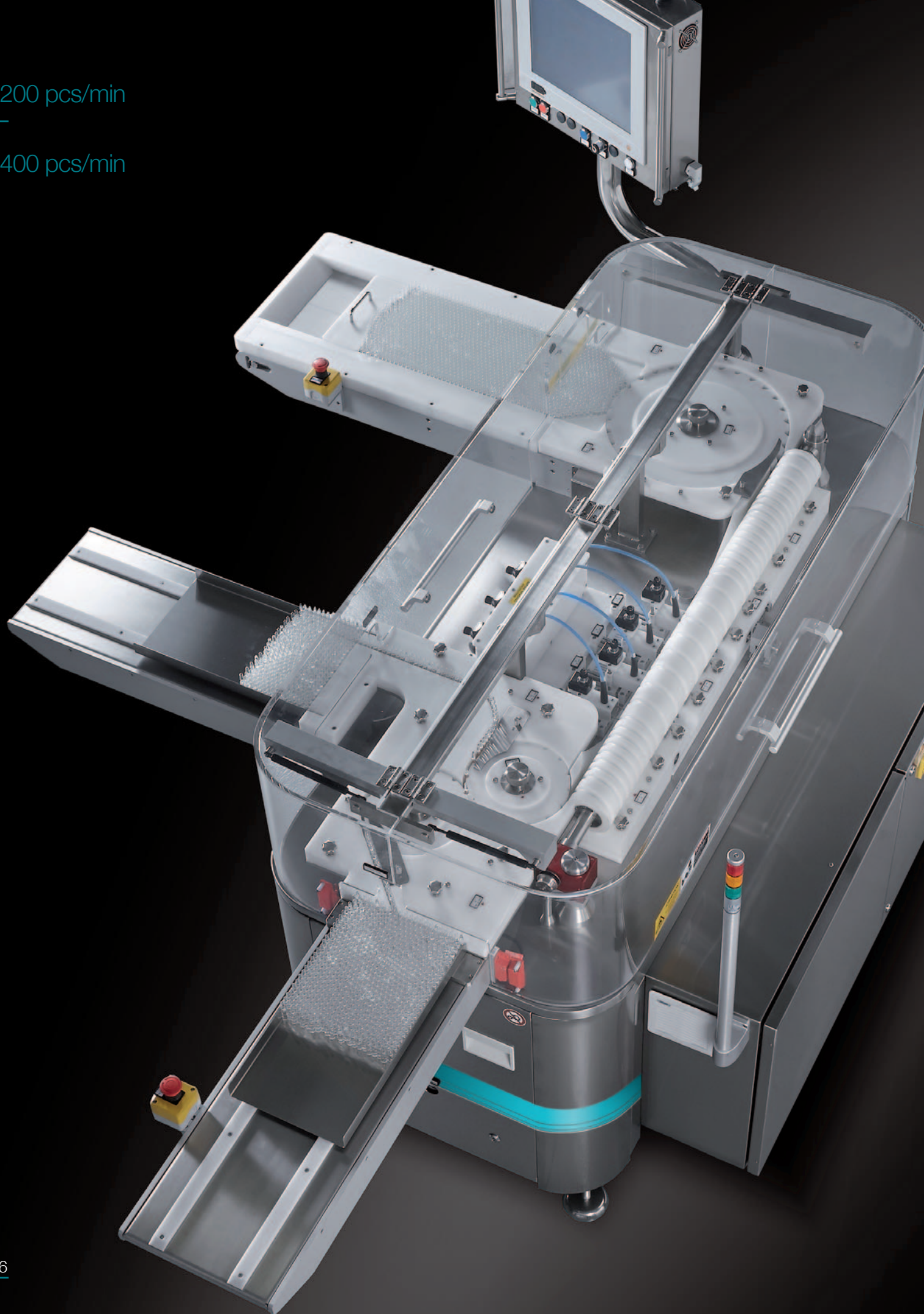
Models **SA9L** / **SA18L** can operate by trays or alternatively in line with other units.

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



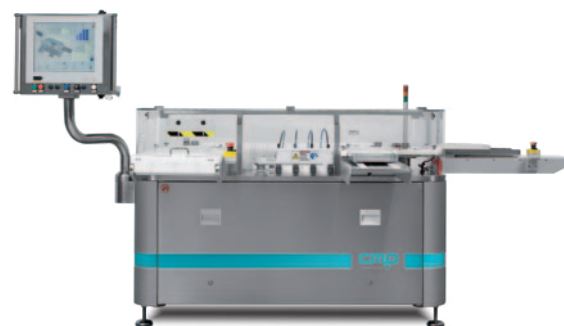
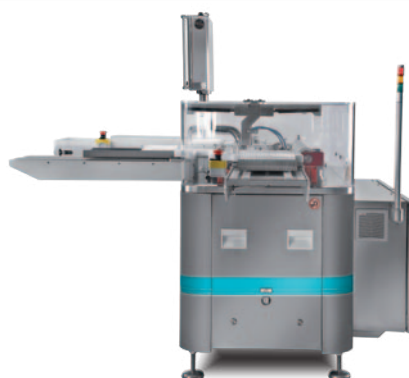
LT12 200 pcs/min

LT24 400 pcs/min



Leak testing Machines

for ampoule and vials



APPLICATION

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

STANDARD INSPECTIONS

- Hairline fissures and pinholes
- Leaking ampoule neck tips

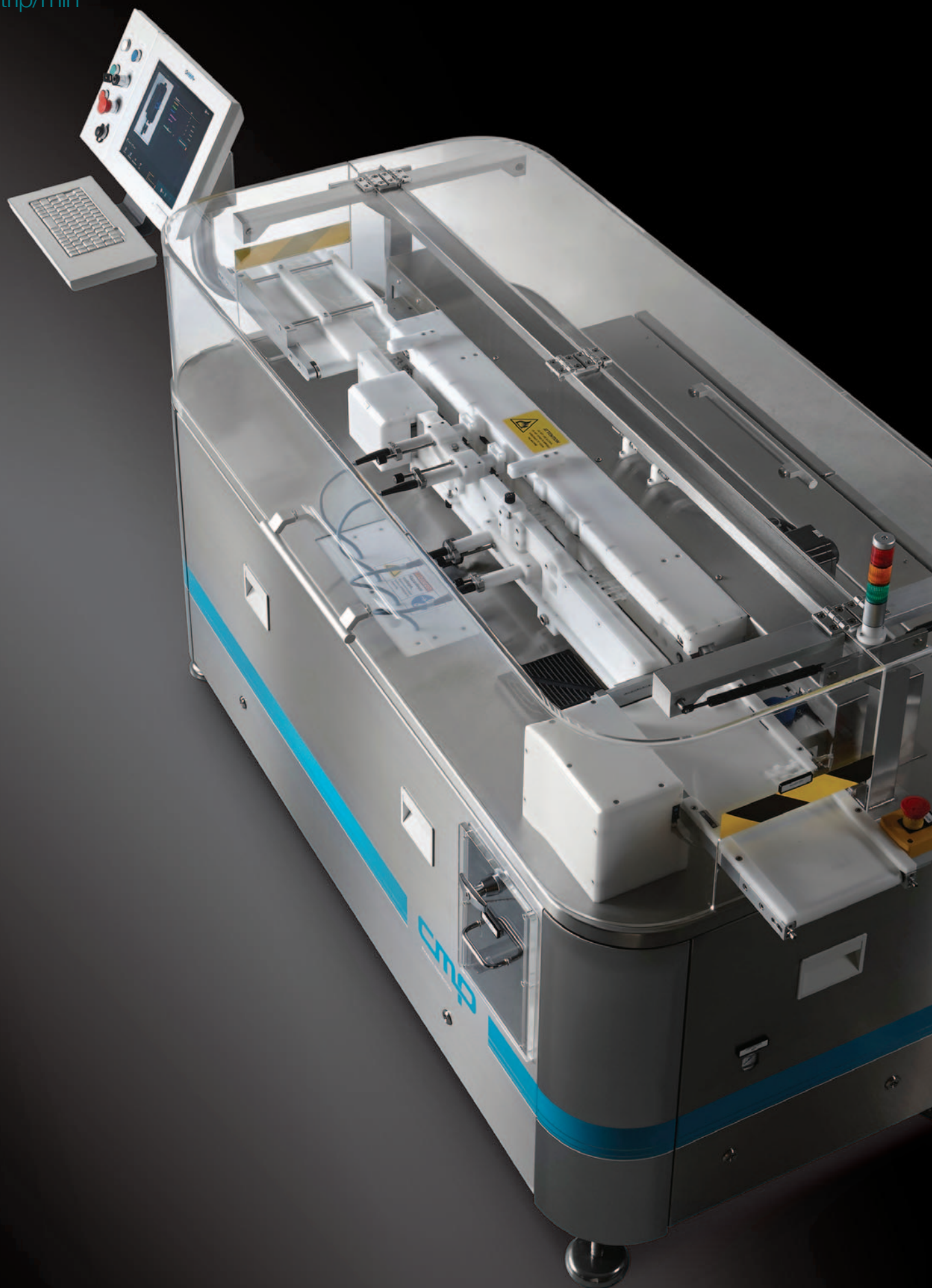
LT12 / LT24 are our core leak test machines: the rational and compact design makes these units suitable to be inserted in any production context.

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.

The productions outputs up to 200 and 400 pcs/min and the rotation system before and during inspection guarantee high quality performances.

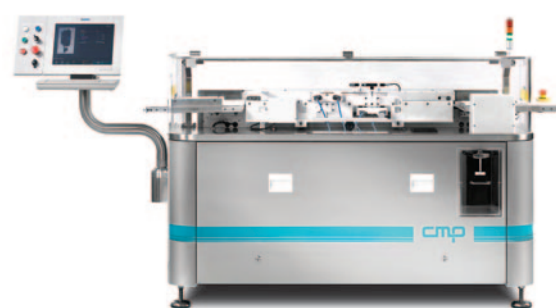


LT-S 100 strip/min



Leak testing Machines

for plastic containers



APPLICATION

- Plastic ampoules in strips
- Height from 50 mm to 120 mm

STANDARD INSPECTIONS

- Hairline fissures and pinholes

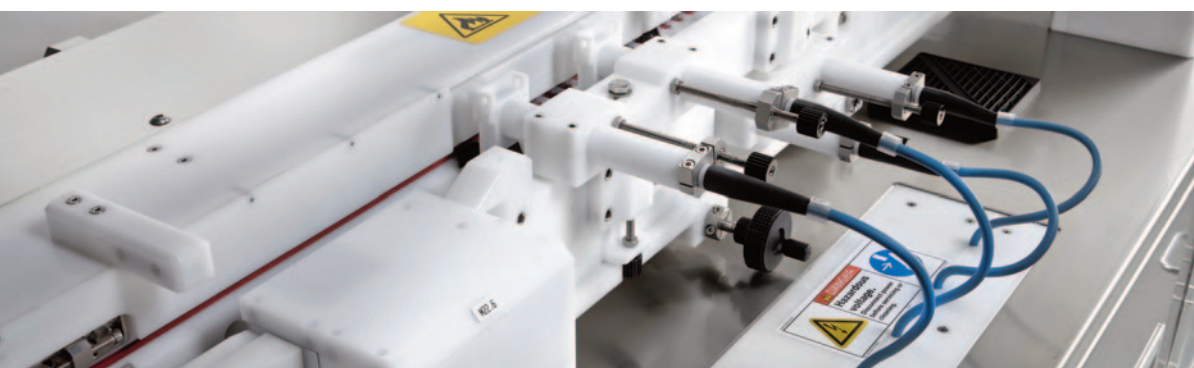
OPTIONAL INSPECTIONS

- TV camera system for printing control

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

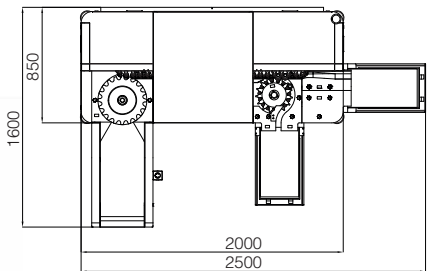
The essential design, combined with the reliability of the HVLD system developed during the years by CMP, is the main characteristic of this model.

The inspection 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.



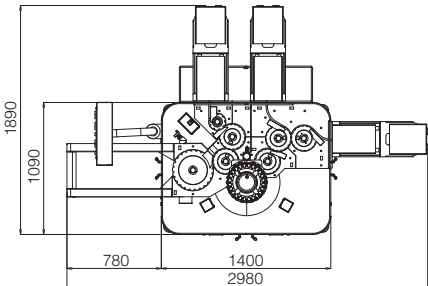
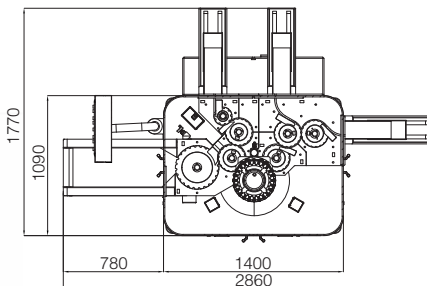
Technical Data

SV_ p.10



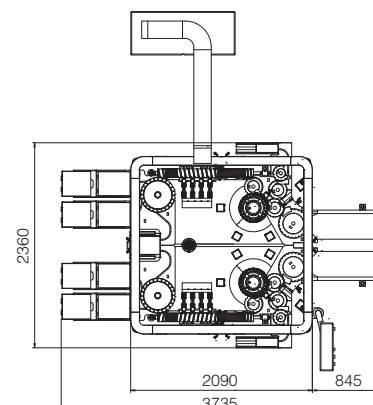
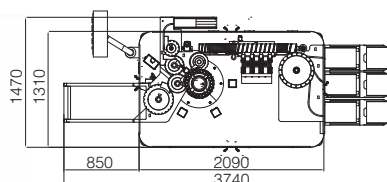
Production output	100 pcs/min (mechanical speed)
Range of diameters	From 8 to 78 mm
Max height	250 mm
Power consumption	2 kW
Power supply	230 V single phase 50-60 Hz
Compressed air	6 Bar
Air Consumption	100 L/min
Weight	600 Kg
Dimensions	2500 x 1600 x 1750 h mm
Design	Complies with current GMP regulations. Software in compliance with 21 CFR part11.

SA6 / SA12_ p.12



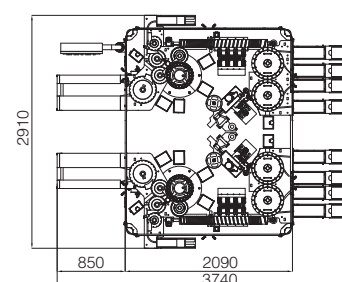
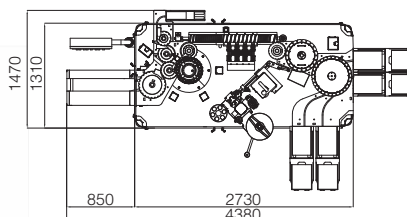
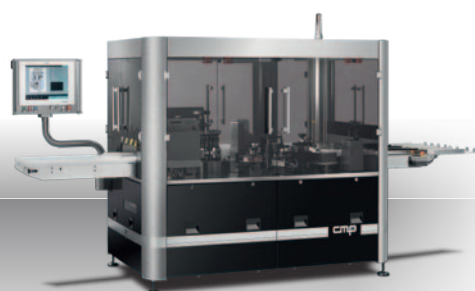
	SA6	SA12
Production output	100 pcs/min	200 pcs/min
Range of diameters	From 8 to 32 mm	From 8 to 32 mm
Max height	110 mm	110 mm
Power consumption	3 Kw	3 kW
Power supply	230 V single phase 50-60 Hz	230 V single phase 50-60 Hz
Compressed air	6 Bar	6 Bar
Air Consumption	200 L/min	200 L/min
Weight	1400 Kg	1400 Kg
Dimensions	2860 x 1770 x 1900 h mm	2980 x 1890 x 1900 h mm
Design	Complies with current GMP regulations. Software in compliance with 21 CFR part11.	Complies with current GMP regulations. Software in compliance with 21 CFR part11.

RS1 / RS2_p.14



	RS1	RS2
Production output	200 pcs/min	400 pcs/min
Range of diameters	From 8 to 32 mm	From 8 to 32 mm
Max height	110 mm	110 mm
Power consumption	3,7 kW	6 kW
Power supply	230 V single phase 50-60 Hz	230 V single phase 50-60 Hz
Compressed air	6 Bar	6 Bar
Air Consumption	200 L/min	400 L/min
Weight	1600 Kg	2800 Kg
Dimensions	3740 x 1470 x 1900 h mm	3735 x 2360 x 1950 h mm
Min. liquid conductivity	1,5/2 μ s	1,5/2 μ s
Design	Complies with current GMP regulations. Software in compliance with 21 CFR part11.	Complies with current GMP regulations. Software in compliance with 21 CFR part11.

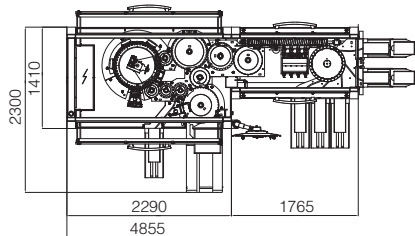
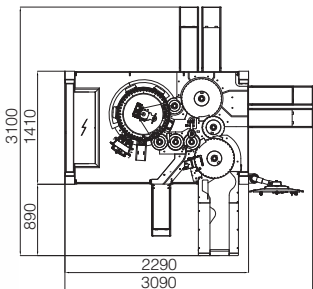
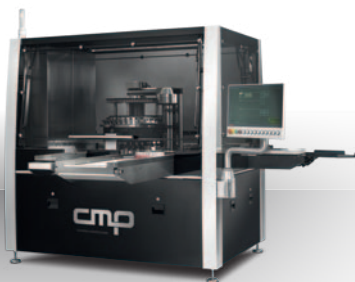
RS1-LAB / RS2-LAB_p.16



	RS1-LAB	RS2-LAB
Production output	200 pcs/min	400 pcs/min
Range of diameters	From 8 to 32 mm	From 8 to 32 mm
Max height	110 mm	110 mm
Power consumption	3,7 kW	6 kW
Power supply	230 V single phase 50-60 Hz	230 V single phase 50-60 Hz
Compressed air	6 Bar	6 Bar
Air Consumption	200 L/min	400 L/min
Weight	1600 Kg	2800 Kg
Dimensions	4380 x 1470 x 1900 h mm	3740 x 2910 x 1950 h mm
Min. liquid conductivity	1,5/2 μ s	1,5/2 μ s
Design	Complies with current GMP regulations. Software in compliance with 21 CFR part11.	Complies with current GMP regulations. Software in compliance with 21 CFR part11.

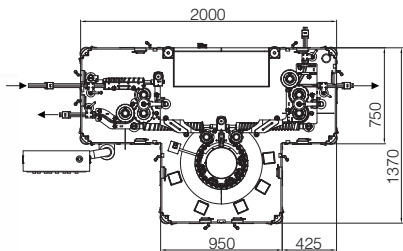
Technical Data

N400 / N400-LT_p.18



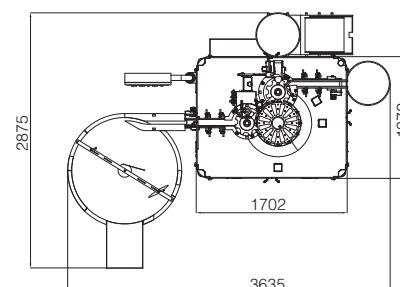
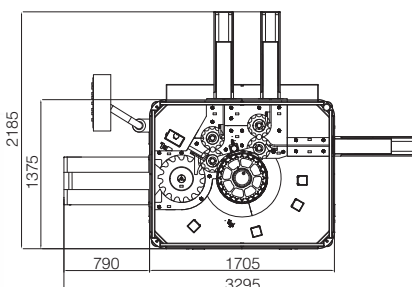
	N400	N400-LT
Production output	400 pcs/min	400 pcs/min
Range of diameters	From 8 to 32 mm	From 8 to 32 mm
Max height	110 mm	110 mm
Power consumption	10 kW	12 kW
Power supply	400 V- 230 V (3F + N + PE) 50-60 Hz	400 V- 230 V (3F + N + PE) 50-60 Hz
Compressed air	6 Bar	6 Bar
Air Consumption	200 L/min	200 L/min
Weight	2500 Kg	3300 Kg
Dimensions	3090 x 3100 x 2100 h mm	4855 x 2300 x 2100 h mm
Min. liquid conductivity	1,5/2 µs	1,5/2 µs
Design	Complies with current GMP regulations. Software in compliance with 21 CFR part11.	Complies with current GMP regulations. Software in compliance with 21 CFR part11.

SA12J_p.20



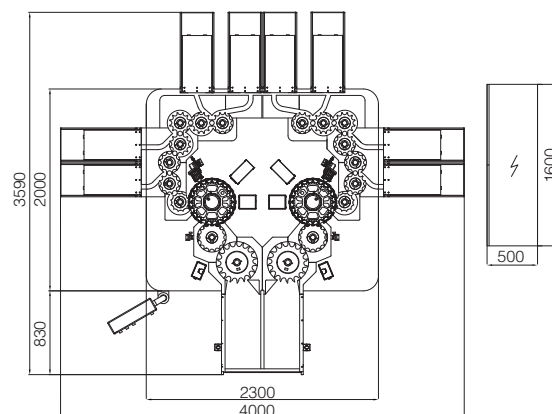
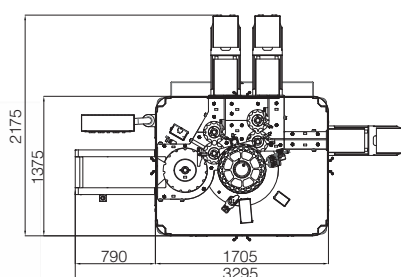
Production output	200 pcs/min
Range of diameters	From 6,85 to 14,45 mm
Max height	100 mm
Power consumption	3 kW
Power supply	230 V single phase 50-60 Hz
Compressed air	6 Bar
Air consumption	200 L/min
Weight	1000 Kg
Dimensions	2000 x 1370 x 2000 h mm
Design	Complies with current GMP regulations. Software in compliance with 21 CFR part11.

SA9F / SA10_p.22



	SA9F	SA10
Production output	150 pcs/min	100 pcs/min
Range of diameters	From 16 to 49 mm	From 16 to 78 mm
Max height	250 mm	250 mm
Power consumption	3 kW	3 kW
Power supply	230 V single phase 50-60 Hz	230 V single phase 50-60 Hz
Compressed air	6 Bar	6 Bar
Air Consumption	50 L/min	50 L/min
Weight	1600 Kg	1600 Kg
Dimensions	3130 x 1515 x 1900 h mm	3600 x 2400 x 1900 h mm
Design	Complies with current GMP regulations. Software in compliance with 21 CFR part11.	Complies with current GMP regulations. Software in compliance with 21 CFR part11.

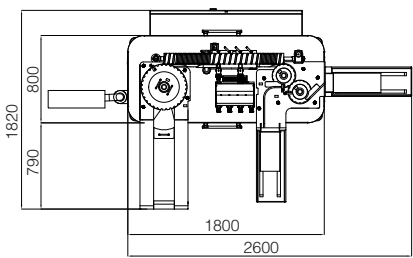
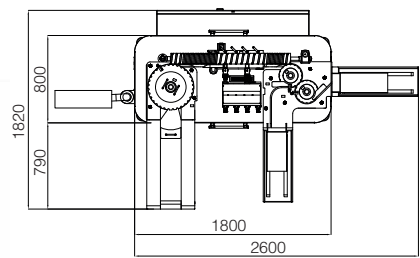
SA9L / SA18L_p.24



	SA9L	SA18L
Production output	150 pcs/min	300 pcs/min
Range of diameters	From 16 to 46 mm	From 16 to 46 mm
Max height	110 mm	110 mm
Power consumption	3 kW	6 kW
Power supply	230 V single phase 50-60 Hz	230 V single phase 50-60 Hz
Compressed air	6 Bar	6 Bar
Air Consumption	200 L/min	400 L/min
Weight	1600 Kg	2800 Kg
Dimensions	3295 x 2175 x 1900 h mm	4000 x 3590 x 1950 h mm
Design	Complies with current GMP regulations. Software in compliance with 21 CFR part11.	Complies with current GMP regulations. Software in compliance with 21 CFR part11.

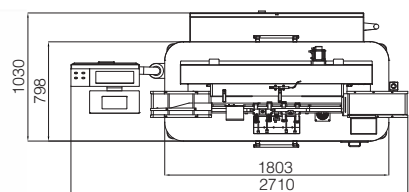
Technical Data

LT12 / LT24_p.26



	LT12	LT24
Production output	200 pcs/min	400 pcs/min
Range of diameters	From 8 to 32 mm	From 8 to 32 mm
Max height	110 mm	110 mm
Power consumption	2 kW	2 kW
Power supply	230 V single phase 50-60 Hz	230 V single phase 50-60 Hz
Compressed air	6 Bar	6 Bar
Air Consumption	100 L/min	100 L/min
Weight	800 Kg	800 Kg
Dimensions	2600 x 1820 x 1800 h mm	2600 x 1820 x 1800 h mm
Design	Complies with current GMP regulations. Software in compliance with 21 CFR part11.	Complies with current GMP regulations. Software in compliance with 21 CFR part11.

LT-S_p.28



Production output	100 strip/min
Strip min. and max height:	50 mm - 120 mm
Power consumption	2 kW
Power supply	230 V single phase 50-60 Hz
Compressed air	6 Bar
Air Consumption	100 L/min
Weight	600 Kg
Dimensions	2710 x 1030 x 1800 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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