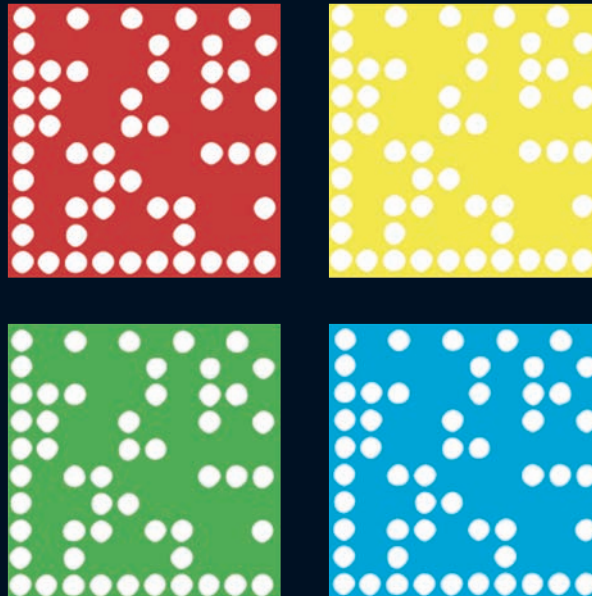


## Expertise in Pharma Technologies and solutions for the pharmaceutical industry



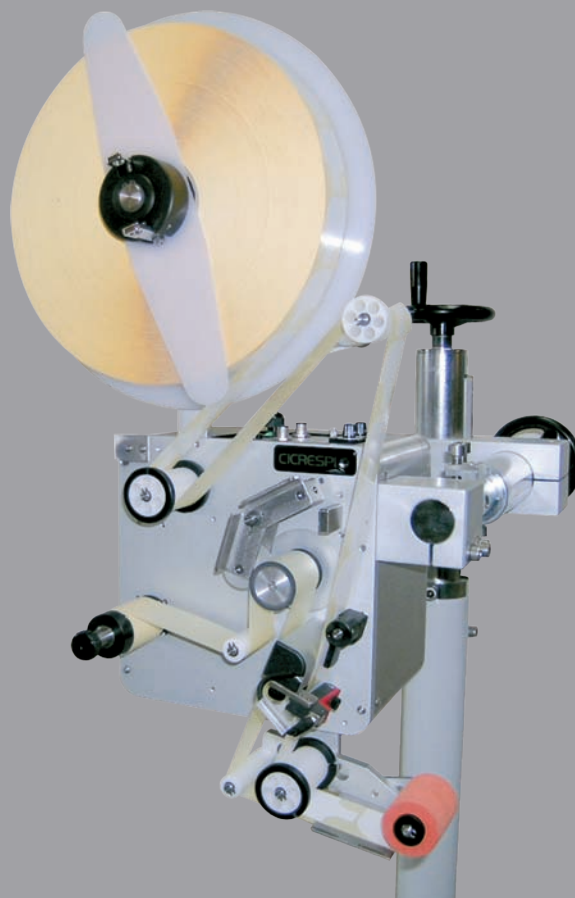
Within this documentation Cicrespi shows main applications accomplished for the pharmaceutical industry: 1 datamatrix track & trace, 2 application of vignettes, 3 vials labelling, 4 sealing of patient package inserts, 5 anti mix-up of inserts, 6 real weight, 7 metal detector for capsules, 8 X rays for blisters, 9 sensors, 10 software.

# 1 Application of vignettes

Product  
identification  
code



Univocal  
serial number



Compact and fast labelling machine Crono, operated by a high cadence stepper motor, applies labels up to 60 mm wide with superior accuracy. The 300 mm diameter unwinder offers a high production autonomy.

## Technical features

Power	220V
Speed m/min	30
Control panel	built-in
Protection rate	IP44
Paper path width mm	60
External reel diameter mm	300
Internal reel diameter mm	45/75
Dimensions LxDxH mm	500x270x700
Weight kg	16

## 2 Sealer of boxes

C-Sealer, application of seal labels - Right and left side:



Open box



Closed box



Seal labels r/l

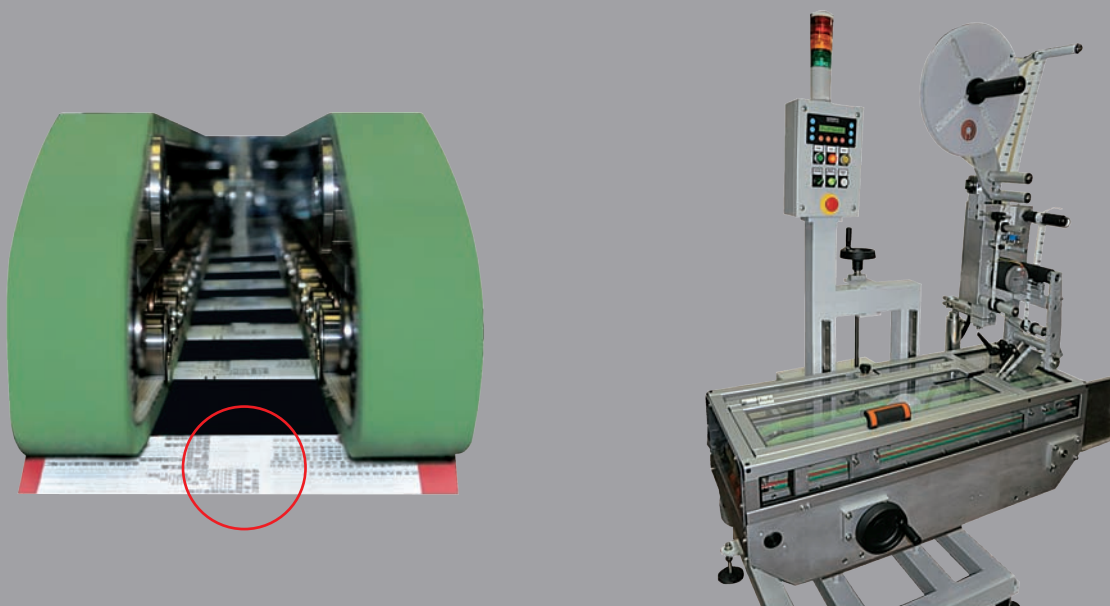


Line for the dynamic application of tamper evident/security seal labels on pharmaceutical boxes.

### Technical features

Production	Up to 10.000 pieces/hr, 170 pieces/min
Application	Tamper evident on two sides, in dynamic
Version	Left to right
Height of the line	Variable from 800 mm to 900 mm by feet adjusting
Sizes of the products	Length: from 60 to 150 mm Width: from 30 to 115 mm Height: from 15 to 90 mm
Sizes of the labels	Width: 20 mm (30 mm including liner) Length: 30 mm
Reels	Diameter external 400 mm - internal 75 mm

### 3 Sealer of pre-folded inserts



Reduced dimensions, high cadence, easy assembling in existing lines

Sealing system designed and manufactured by Cicrespi Engineering to close automatically the open side of the pre-folded patient package insert for pharmaceutical drugs. The seal label, self-adhesive and transparent, compacts the insert and makes the insertion inside the case easy.

Machine composed of: Labelling head model Cosmos, paper path width mm 80, completed with: mechanical reel holder Ø 320 mm, label stop with notch reader, labelling blade for any label size, towing roller driven by motor and completed with grained counter-roll, rewinder of backing paper with mechanical derivation. Conveyor mounted on basement in varnished iron with hand-wheel vertical adjustment. Motorized, opposed belts, adjustable in height through hand-wheel, automatic label folding device with toothed belt for sealing application on the back of the product. Motor driven by inverter. Control box assembled within the basement in easy maintenance position. Control console mounted on bracket completed with: panel to manage the parameters of the labelling machine, conveyor start / stop and emergency button. Three colour lamp with alarm, pre-alarm and machine ready alerts.

#### Technical features

Electric power	V 220 monophase
Input	1 Kw
Machine dimensions LxDxH mm	1200x1750x750
Approx. dimension inserts	from mm 25 to mm 250 with variable thickness from 1 to 6 mm
Production up to pcs/hr	up to 10000

## 4 Datamatrix track & trace



- (01)08691234567890 — Product identification code
- (21)1113223424579 — Univocal serial number
- (17)100331 — Expiry date
- (10)002515061322 — Production lot



Coding follows indications from EFPIA European Federation of Pharmaceutical Industries and Associations, and includes all necessary data to track and trace drugs.

The method is composed of:

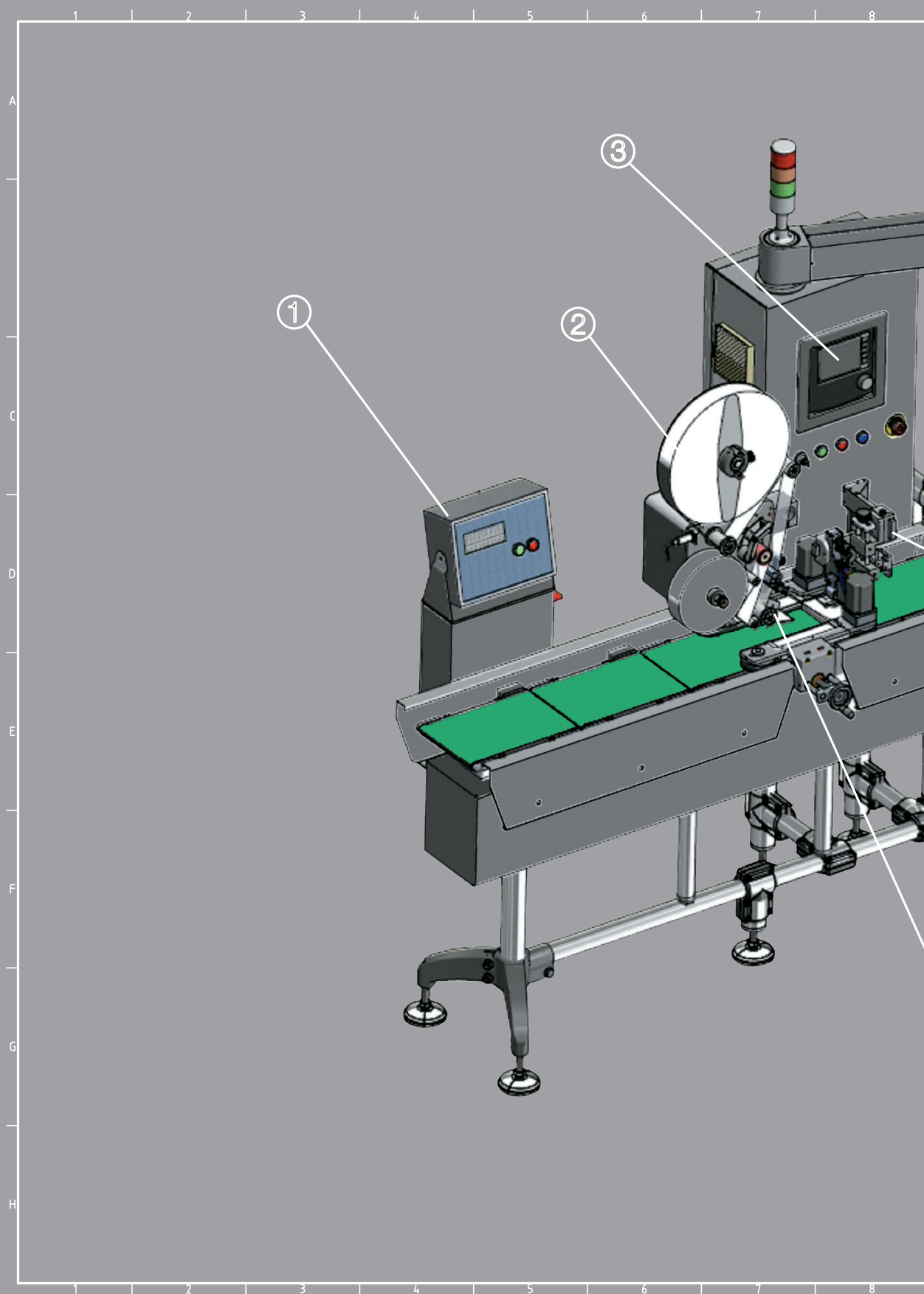
- conveyor belt stabilized during coding process
- ink-jet coding based on HP technology
- 2D imager for codes reading
- air blow ejector
- touch screen industrial PC
- software to check and manage track and trace

Optional accessories:

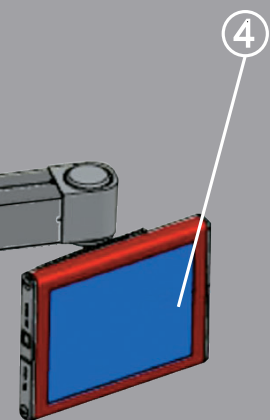
- thermal transfer printer to print summary labels on the secondary packaging
- software module for pallet labelling
- 2D scanner for manual operations of reading, modification or deletion of Datamatrix code
- off line checker to certify the quality grade of the printed code and to issue report

### Technical features

Electric power	220V
Pneumatic power and compressed air	5 bar
Dimensions of conveyor LxDxH mm	500x170x900
Console dimensions LxDxH mm	500x300x1800
Coding speed max mt/min	50 depending on data to be printed
Production max cases/min	200
Dimensions cases mm	min 50x40x40, max 120x100x100
Weight products g	up to 100

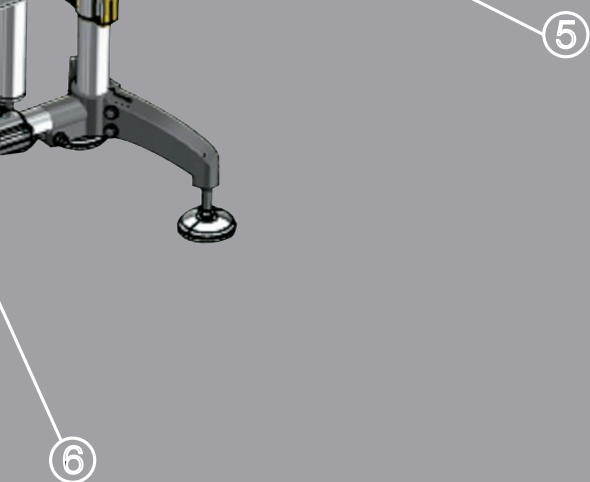
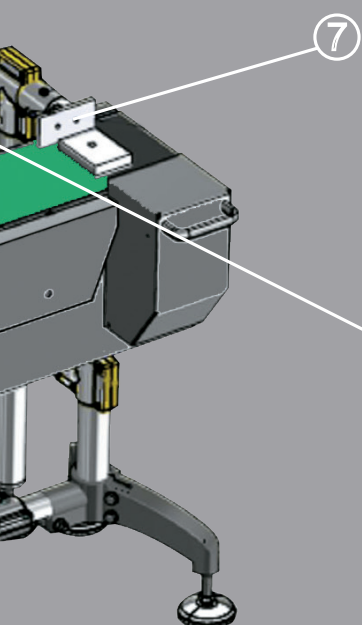


9 10 11 12 13 14 15 16



## INTEGRATED SYSTEM

1. Checkweigher
2. Top labelling head
3. Datamatrix printer display
4. Touch screen PC
5. Label presence reader
6. Datamatrix printing unit
7. Ejector cylinder



CRESPI		Dimensioni/Name		Scale/Scale	
Trattamenti superficiali/Surface treatment		Descrizione generale/General description		Scale/Scale	
Materiali base/Basic materials for general use for all types		Controlli/Checked		Data/Date	
Vale di controllo base/Basic value for all types		Data/Date		12.11.10	
Vale di controllo base/Basic value for all types		Firma/Signature			
0.5x3	3x0	0x30	30x120	120x400	400x1000
±/-0.05	±/-0.05	±/-0.1	±/-0.15	±/-0.2	±/-0.3
Grasso	12.5	Sigaretto	3.5	Fine	0.5
Rough	To rough	Finish	Finish	Finish	Finish
CODICE DESGNO / DRAWING CODE		MATERIALE / MATERIAL		CRESPI	
AZ1112				ENGINEERING SRL	

Le misure superficiali sono i valori di riferimento per le misure. Per informazioni sul prodotto, visitate il sito [www.crespi.com](http://www.crespi.com)

9 10 11 12 13 14 15 16



## 5 Vials labelling



The system applies partial or total wraparound labels on different kinds of vials. It is completed with thermal transfer printer, check of printing and presence of label.

Machine composed of:

Conveyor, side double belt to separate products, labelling head with thermal transfer printer, adjuster, camera equipped with display, UV sensor to check presence of label and air blow ejector for rejected products.

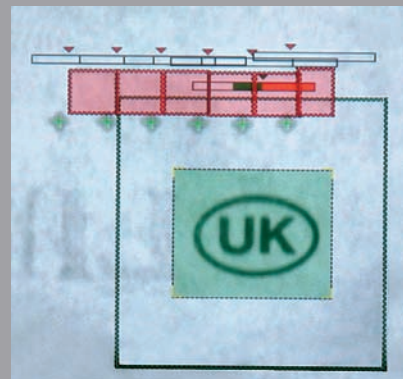
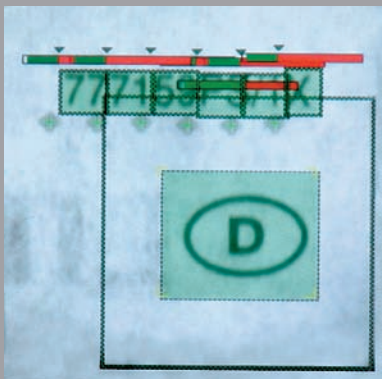
A tracking program included in the PLC checks the position of the product during each phase. All functions are controlled by a touch screen panel programmed on purpose.

### Technical features

Electric power	380 +N+T
Pneumatic power	compressed air 5 bar
Machine dimensions LxDxH mm	1500x1000x900
Speed up to m/min	40
Production up to pcs/hr	12000 according to product



## 6 Anti mix-up of patient package inserts



The system checks anti mix-up of patient package inserts. It is based on two high speed, black and white matrix cameras, is equipped with illuminator and simple configuration software. The top camera searches for a part of the text, and the software does the matching. If the difference exceeds the preset value, the system signals the error. The bottom camera checks the presence of white on the back of the insert.

## 7 Real weight



This innovative high speed weighing technology ensures the system accuracy during its entire lifecycle, allows the use of small-sized belts, and doesn't require any dynamic teaching of the product.

Three versions S3, S3F, S4V: 180, 270, 400 pieces per minute, for exclusive internal use to check the correct contents inside the cases.

Model S4V is equipped with an ejector mounted on the fourth belt, separated from the rest of the structure to decrease the disturbance caused by the ejecting system.

Technical features	HSC350 S3 S3F	HS350 S4V
Range g	300/600	300
Accuracy g	0,2/0,4	0,2
Cadence pcs/min	up to 180-270	up to 400
Number of conveyors	3	4
Input conveyor	L = 400 mm	L = 400 mm
Weighing conveyor	L = 150 mm	L = 150 mm
Output conveyor	L = 400 mm	L = 400 mm
	with air blow ejector and box to collect discards	
Output conveyor		L = 400mm
	with air blow ejector and box to collect discards	
Conveyors width mm	90 - 110 - 160	90 - 110 - 160
Total length mm	960	960
Depth mm	700	700

## 8 Metal detector for capsules



This versatile system is designed on purpose for the pharmaceutical industry.

It is compact and easy to install.

The parts in contact with the product have been designed to be dismantled and hygienized quickly.

Validation IQ and OQ.

### Technical features

Finishing	stainless steel 304 and 316
Aperture mm	100x20 or 10x38
Input height mm	from 530 to 835
Output height mm	from 240 to 660
Inclination degrees	max 45
Ejector	electro-magnetic reel with high speed deviation flap
Range capsules/min	up to 10000

## 9 X – X4 rays for blisters



This is the most ultimate and innovative X rays inspection system, now available also for the pharmaceutical industry.

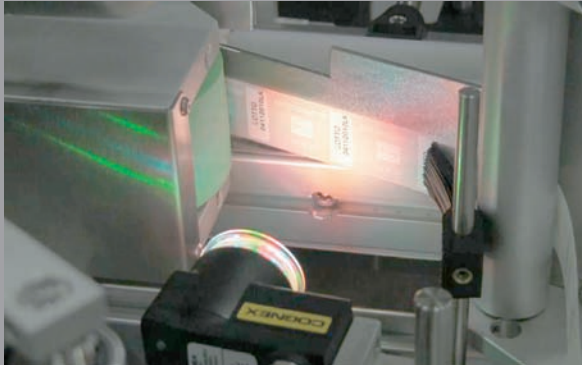
It checks the presence of foreign bodies and the integrity of the blister.

X4 allows the inspection of more rows.

Caratteristiche tecniche	X4	X4 compact-sized
X-ray tube power	150 W	150 W
System length mm	2000 standard	1150
Tunnel width mm	300 – 500 – 600	300 – 500
Tunnel height mm	250	250
Speed m/min	up to 70	up to 70
Ejectors	internal, air or cylinder, external, optional	external, optional

# 10 Sensors

Contactless digital sensors to detect presence/absence of a product, material, code, labels, caps, levels, tightening, defects.



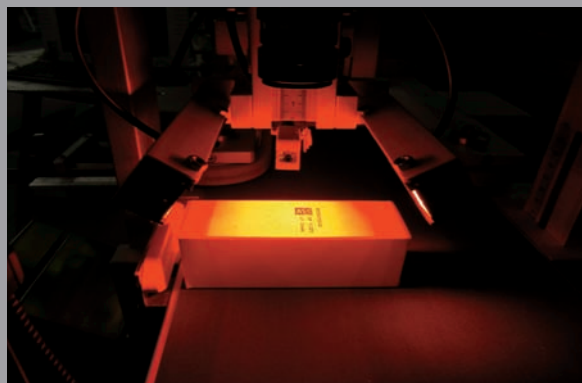
Sensors 1:  
Presence / absence of batch



Sensors 2:  
Presence / absence of specific parts



Sensors 5:  
Check of tightening of flexible containers,  
vials, single packs, aerosols.



Sensors 3:  
Presence and position of labels or  
1D and 2D codes.

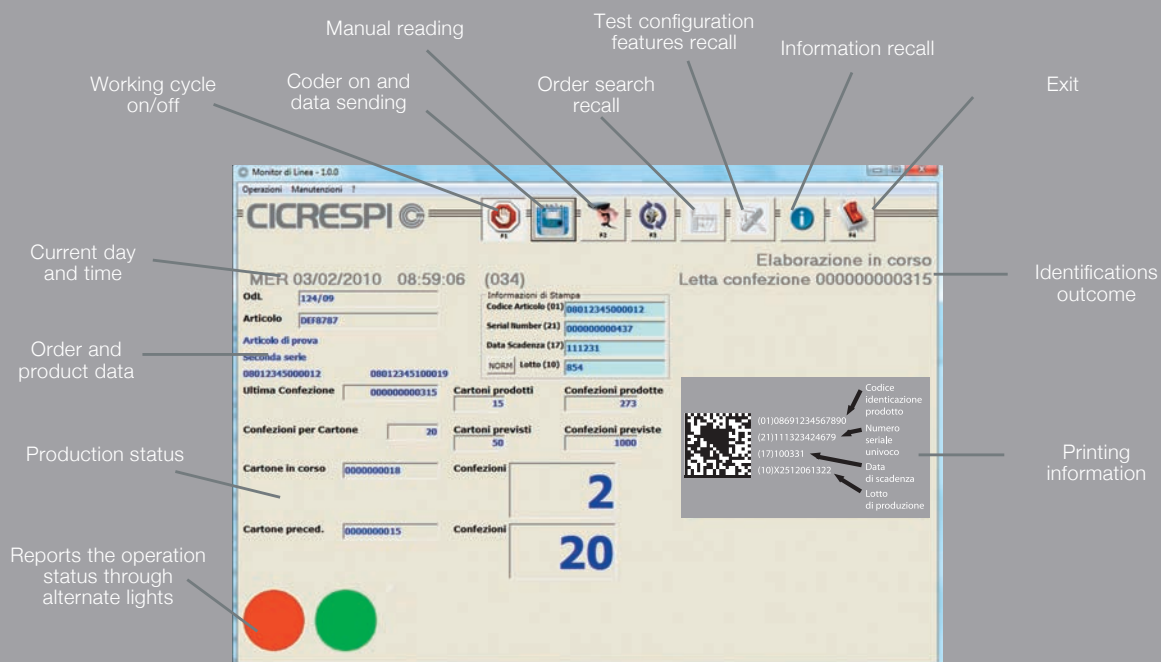


Sensors 4:  
Check of fill level and  
tightening of plastic cap.



# 11 Software

Cicrespi RCS Read Check Send Software.



Cicrespi RCS software allows the operator to set production features in the easiest and most correct way, avoiding the most common mistakes.

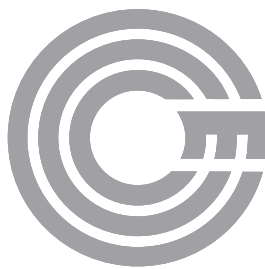
- The operator chooses the product to be worked.
- He sets the extra data required: batch, expiry date; can modify the first serial number and match each product with its correct code and sequential number.
- At each presence of a package the coder prints the information; double coding is avoided.
- At each presence of a package the barcode reader or the camera sends the reading of the identified code to the software, if the outcome is positive the information is stored in the database, otherwise a command to eject the packaging is sent to the PLC.
- The software is integrated with all the equipment installed on the line, reports the operation status and the correct interpretation of any anomaly.
- Stores all the information concerning the accomplished production, supplies reports and archives of product numbering on magnetic supports.
- Keeps history of all track and trace information on a database.
- Displays the contents of any single package.
- Traces the positioning of each single container (in which package, in which pallet).

The access to the most reserved operations of the software is settled by an authorization password. The software operates in Windows (XP or later) with database Microsoft SQL Server Express (2005 or later). The database manager must be installed on a network server (advised), or on the PC itself (if the PC is powerful).

Free Software Microsoft is required for the execution of programs Microsoft Visual Basic 6.0 Run-time – Microsoft SQL Client.







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