LABORATORY

Designed to support R&D and small production batches

MARCHESINI GROUP
LABORATORY

MARCHESINI
GROUP
PHARMA

Packaging solutions inspired by the extraordinary

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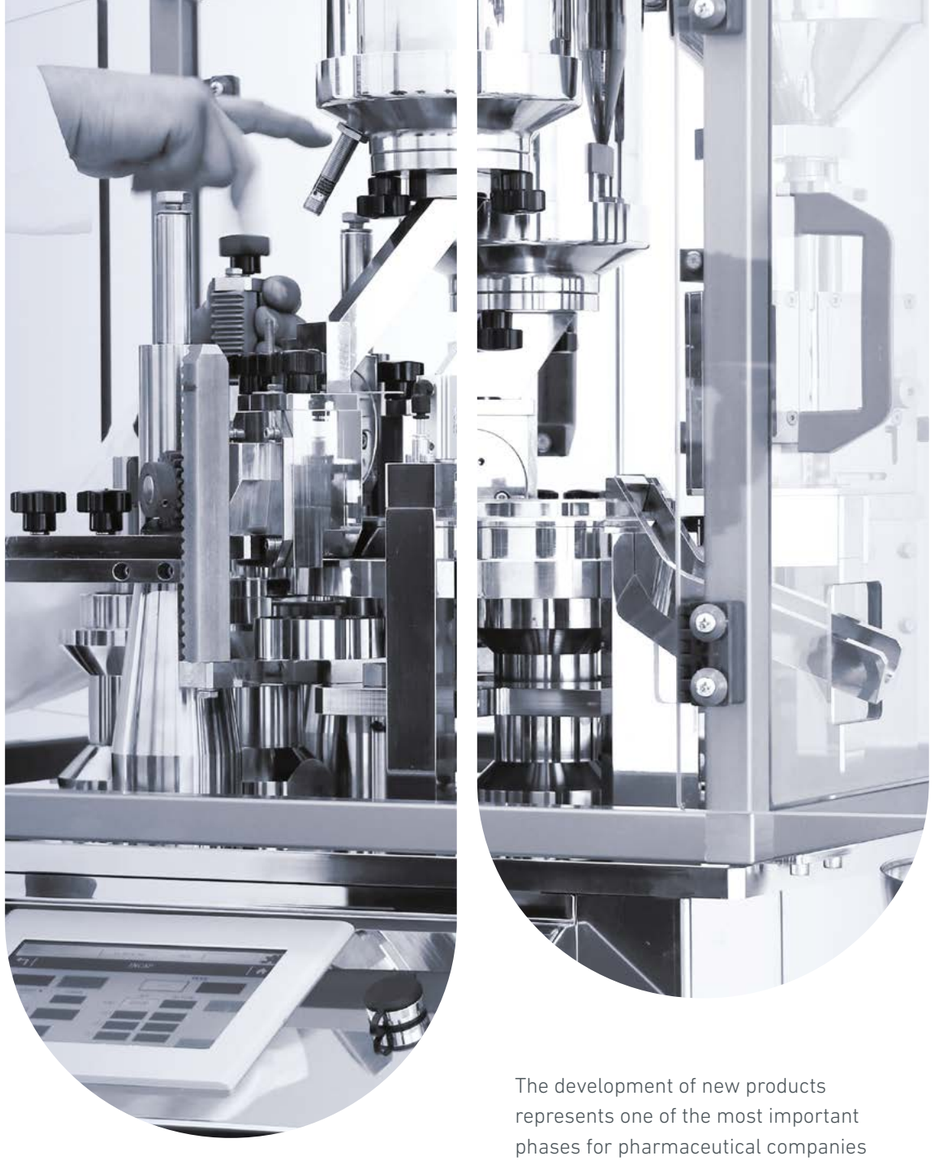
OUR COMPANIES

BONAPACE MARCHESINI GROUP
cmp MARCHESINI GROUP
DUMEK MARCHESINI GROUP



We at Marchesini Group are proud leaders in manufacturing and integrating complete lines since 1974.

The development of new products represents one of the most important phases for pharmaceutical companies and in this context the equipment available to laboratories and research centres is of particular importance.
Another fundamental aspect is to study how to optimize the production processes.
The Marchesini Group combines the proven experience of Dott. BONAPACE, CMP Pharma and Dumek into the manufacturing of machines designed for Laboratory and Small scale production Batches for the Pharmaceutical industry.
Capsule filling solutions, Inspection Machines, Blister solutions, Tablet press, Liquid filling machines, Turboemulsifier, are only few examples of the deep machine portfolio available.

Keypoint

Highest performance of any kind of process or control in pilot scale lab, small and medium production

Flexibility in production processes

Updated solutions for the inspection of ampoules, vials, cartridges and prefilled syringes

User Friendly machines

Capsule filling
IN-CAP SE

Featured Model **IN-CAP SE**

Automatic capsule filling machine with dosing devices for powders, pellets, single tablets, mini-tablets, capsule in capsule, liquids.

- Suitable to handle all capsule sizes 000-00el-00-0el-0-1el-1-2el-2-3-4-5 and all DBCaps
- Independent station or double or triple combination
- DUST TIGHT and IP 55 version also available
- Process area completely separated from technical area

OUTPUT
Up to 3.000 caps / h

MACHINE SIZE
mm 1000 x 950 x 1650 h

Capsule filling
IN-CAP XL

Featured Model **IN-CAP XL**

The smallest automatic capsule filling machine.

- More than over 20 filling combinations
- Design in according to the GMP guidelines
- Bench top version

OUTPUT
Up to 3.000 caps / h

HIGH CONTAINMENT SOLUTION

Featured Model **HIGH CONTAINMENT SOLUTION**

- Machine IP65 version, completely washable
- Control panel remotely installed
- Solution for all containment applications

OUTPUT
Up to 3.000 caps / h

MACHINE SIZE
Customizable

Video

Capsule sealing and banding
BD-3000

Featured Model **BD-3000**

Automatic, bench top, capsule sealing machine (by banding the two capsules portions). Ideal to work with our automatic capsule filling machine IN-CAP with liquid station.

- For handling all capsule sizes from 00 till 4
- Production up to 3.000 gelatin or HPMC capsules / h

OUTPUT
Up to 3.000 caps / h

MACHINE SIZE
mm 850 x 610 x 510 h

Semi-automatic capsule filling and orienting
RK-15

Featured Model **RK-15**

The RK-15 and KAP-300 are a complete system to open, fill and close empty hard gelatine capsules already oriented on a 300 hole filling plate.

- Easy to use
- Complete system
- Vibration system included
- Easy to clean
- Handling capsule sizes 00-0-0el-1-2-3-4

OUTPUT
300 caps / cycle

RK-15

KAP-300
KAP-100

Featured Models **KAP-300 + KAP-100**

OUTPUT
300 caps / cycle

KAP-300

DIMENSIONS
RK-15 mm 560 x 350 x 500 h
KAP-300 mm 350 x 450 x 400 h

OUTPUT
100 caps / cycle

MACHINE SIZE
mm 330 x 440 x 480 h

KAP-100
The smallest solution for capsule filling and orienting

Tablet press
CPR-6 SE

Featured Model **CPR-6 SE**

CPR-6 SE is the new single punch tablet press machine designed for pharmacies, hospitals, universities and also R&D centres.

- Max force 5 t
- Solution for formulation development phase
- Medium and high containment (isolator) solution
- Equipped by gravity feeder
- It can be equipped also with multi-punch
- Standard punches type euro B or D / TSM
- Dedicated software for supporting analysis of the data
- Instrumented version available upon request
- Design in according to the GMP guidelines

OUTPUT
Up to 3.600 tabs / h

MACHINE SIZE
mm 602 x 641 x 1737 h

Tablet press
CPR-18 SE

Featured Model **CPR-18 SE**

Rotary tablet press machine for R&D applications, clinical testing and small production batches. Digital parameter regulation enhances its efficiency and accuracy.

- Three different turrets available
- Medium and high containment (isolator) solutions
- Max Compression force 60 kN
- Standard punches type euro B or D / TSM
- Dedicated software for supporting analysis of the data
- DUST TIGHT and IP 55 version also available

OUTPUT
Up to 18.000 tabs / h

MACHINE SIZE
mm 700 x 700 x 1800 h

Video

Tablet press
CPR-22

Featured Model **CPR-22**

Rotative tablet press, single or double layer, from powders or granules. Ideal for pharmaceutical and nutraceutical industries.

- Standard punches type euro B or D / TSM
- Dedicated software for supporting analysis of the data
- DUST TIGHT and IP 55 version also available
- Medium and high containment (isolator) solution available
- 3 different discharge chute available (production, sampling discarded,)
- Max Compression force 80 kN

OUTPUT
Up to 36.000 tabs / h

MACHINE SIZE
mm 950 x 950 x 2060 h

Video

Tablet press
HIGH CONTAINMENT SOLUTION

Featured Model **HIGH CONTAINMENT SOLUTION**

Rotary tablet press machine for R&D applications, clinical testing and small production batches. Digital parameter regulation enhances its efficiency and accuracy.

- Three different turrets available
- Medium and high containment (isolator) solutions
- Max Compression force 60 kN
- Standard punches type euro B or D / TSM
- Dedicated software for supporting analysis of the data
- DUST TIGHT and IP 55 version also available

Suppository/ovule line
BP-2 + BP-3 + CU-1

Featured Models **BP-2 + BP-3 + CU-1**

The smaller suppository/ovule line suitable to process up to 3.600 shells / h.

- Dosing range up to 3.5cc (increments of 0.10cc)
- Equipped with Ink-Jet coding upon request
- Ideal for small batches
- Separated units suitable to avoid any complete stop

BP-2
Filling unit

BP-3
Sealing, coding and cutting unit

Folding top
for bp-2

CU-1
Cooling unit

OUTPUT
Up to 3.600 shells / h

MACHINE SIZE
BP-2 mm 1600 x 700 x 800 h
BP-3 mm 1380 x 550 x 370 h
CU-1 mm 850 x 900 x 1530 h

Video

Suppository/ovule line
BP-10 + BP-11 + CU-4

Featured Models **BP-10 + BP-11 + CU-4**

BP-11
Sealing, coding and cutting unit

BP-10
Filling unit

CU-4
Cooling unit

The larger suppository/ovule line suitable to process up to 6.000 shells / h.

- 25l jacketed hopper with water circulation
- 2Dosing range up to 3.5cc (increments of 0.10cc)
- 2Equipped with integrated Thermic Coding
- 2The temperature can be set from 1 5°c up to 25°c

OUTPUT
Up to 6.000 shells / h

MACHINE SIZE
BP-10 mm 1800 x 700 x 800 h
BP-11 mm 1380 x 550 x 370 h
CU-4 mm 2550 x 900 x 1300 h

Video

Suppository preparation and transfer system
TRANSFER SYSTEM & MELTING VESSEL

Featured Models **BP-11 + CU-4 + BP-10 + HEATED TRANSFER PIPING + MELTING VESSEL + HEATED PUMP**

Heated transfer piping

MELTING VESSEL + HEATED PUMP

BP-10 + CU-4 + BP-11

- Melting Vessel of different capacities equipped with heating and cooling phase
- Heated transfer pump
- Different solutions for preparation and transfer mass
- Heated piping till filling unit hopper

Suppository coding
SUPPOSITORY CODING SHELLS

Coding Solutions **EMBOSSING + THERMIC + INK-JET**

EMBOSSING

THERMIC

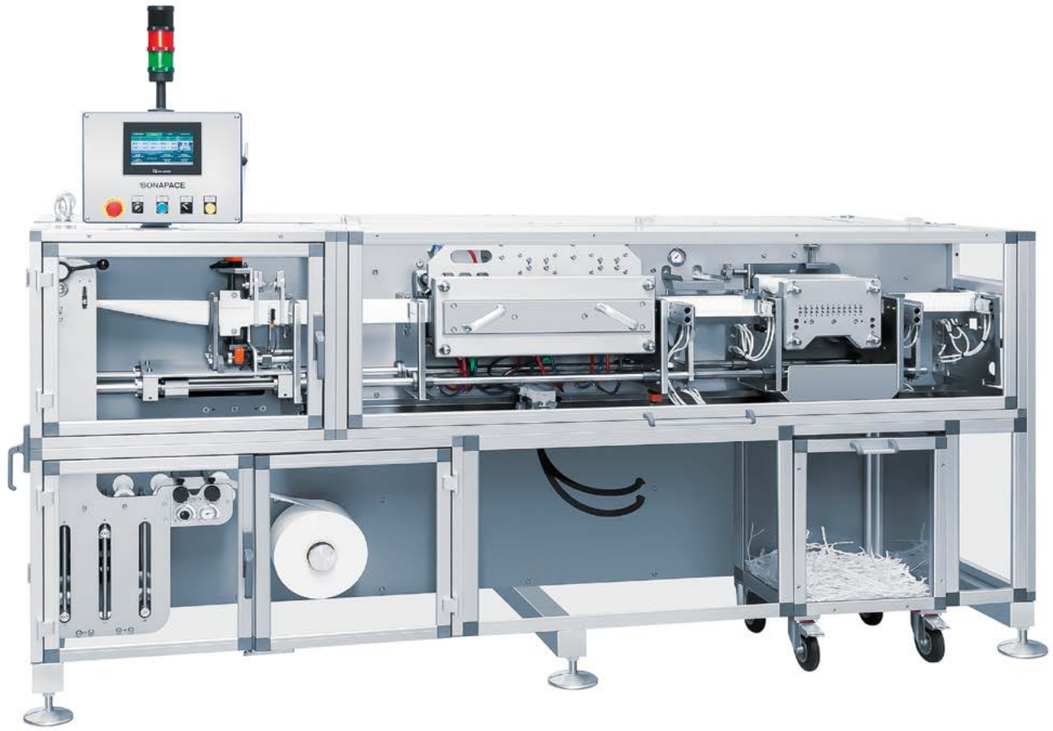
INK-JET

Different solution for shells coding: Embossing - Thermic Coding - Ink-Jet.

- Capacities: from 0.60 cc up to 3.50 cc

Suppositories and ovules thermoforming
BPS-210

Featured Model **BPS-210**



Thermoforming machine for empty suppository/ovule shells.

- Type film PVC-PVC + PE-PVC + PVDC + PE
- Thickness 130 or 150 µm

OUTPUT
Up to 21.600 shells / h

MACHINE SIZE
mm 3600 x 1050 x 1940 h

Video

Shells
SUPPOSITORY & OVULE SHELLS

Capacity Range **SUPPOSITORY PEEL-OFF/TEAR-OFF SHELLS - OVULE PEEL-OFF/TEAR-OFF SHELLS**

SUPPOSITORY PEEL-OFF SHELLS

0.60 CC	1.50 CC	2.25 CC	3.00 CC
1.00 CC	1.75 CC	2.50 CC	
1.25 CC	2.00 CC	2.75 CC	

SUPPOSITORY TEAR-OFF SHELLS

1.00 CC	1.75 CC	2.50 CC	3.25 CC
1.25 CC	2.00 CC	2.75 CC	3.50 CC
1.50 CC	2.25 CC	3.00 CC	

OVULE PEEL-OFF SHELLS

1.00 CC	2.50 CC
2.00 CC	3.00 CC

OVULE TEAR-OFF SHELLS

2.00 CC	3.00 CC
2.50 CC	3.50 CC

Manufactured in 2 different materials: PVC or PVC/PE. Completely white with a double opening option: tear-off or peel-off. The thickness can be 127 µm (±10%) or 147 µm (±10%) and we can print them also on both sides and with 2 different colors.

Check weigher
CW-70

Featured Model **CW-70**

Automatic device for weight control of capsules, tablets and softgel.

- Weight range: 0 – 100 g
- Graduation 0.2 mg
- Capsules size from 000 to 5
- Tablets from 2 mm till 25 mm

OUTPUT
Up to 7.000 pcs / h

MACHINE SIZE
mm 700 x 700 x 1200 h

Video

POWDER MIXER
B-MIX

Featured Model **SBP-5**

Multi use mixer suitable for pharmacies, pharmaceutical laboratories, etc.

- Containers should be equipped with break flow shovels
- V, BIN and BI-CONE shapes available in different capacities

V SHAPE

OUTPUT
max 12 liters

MACHINE SIZE
mm 870 x 480 x 540 h

Video

Counting
ZERAH

Featured Model **ZERAH**

This universal bench top counting machine delivers an exact dosage of tablets, capsules, soft capsules or most known dosage forms.

- For medium size batches
- Up to 40.000 counts/hour
- 7" color touchscreen
- Class IP-64

OUTPUT
up to 40.000 pieces / h

MACHINE SIZE
mm 400 x 400 x 550 h

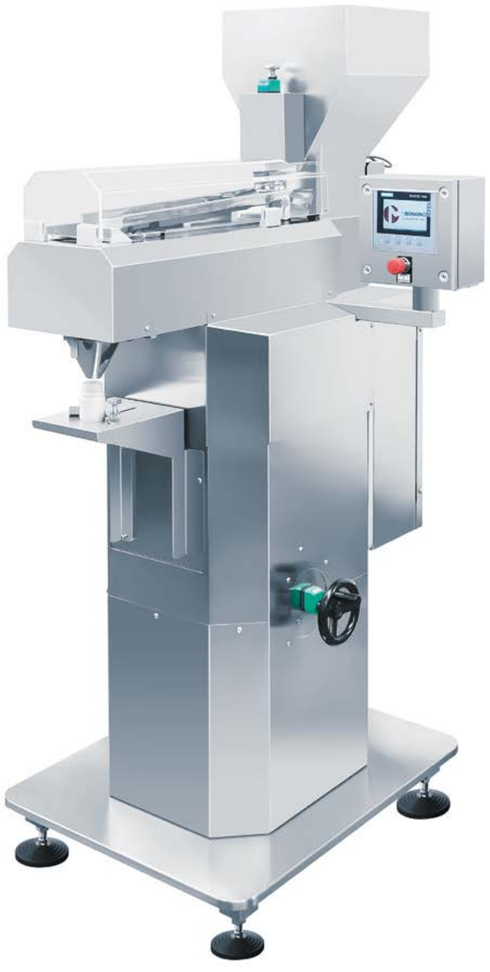
Video

Counting
TALLY

Featured Model **TALLY**

Automatic counting machine designed on two channels for counting and filling bottles with tablets, coated tablets, hard & soft gelatine capsules.

- Design in according to the GMP guidelines
- 7" HMI color touch screen
- Bottle height from 60 to 215 mm
- Noise level not exceeding 80 dB(A)



OUTPUT
57.000 pieces / h

MACHINE SIZE
mm 750 x 950 x 1800 h

Blistering and deblistering
IN-PACK SE

Featured Model **IN-PACK SE**

IN-PACK is the pneumatic semi automatic blistering machine for handling PVC/ALU or ALU/ALU blisters.

OUTPUT
2 blisters per cycle

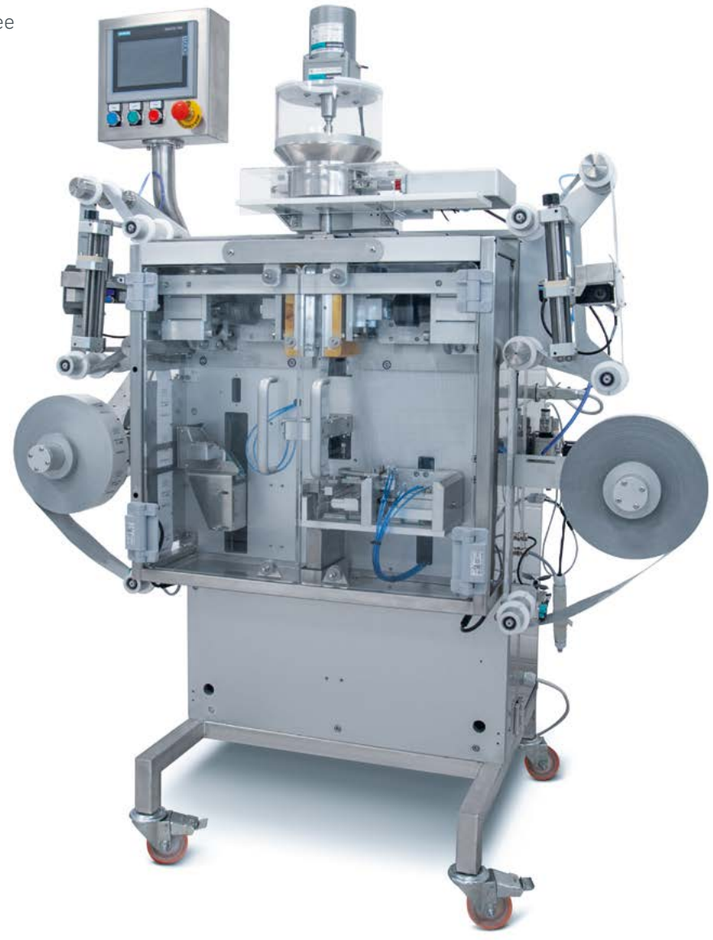
MACHINE SIZE
mm 680 x 760 x 1180 h

Packing in heat sealing bag
SBP-5

Featured Model **SBP-5**

Automatic sachet machine (4 sealed sides) for filling Powders, Granules, Liquids, Creams or Solids.

- Quick and simple installation
- Dry air, non-condensing, filtered 5 microns and oil-free
- Blisters – sticks – sachets – tubes – suppositories
- Ensuring 100% test reproducibility



Video

OUTPUT
Up to 4.000 sachets / h

MACHINE SIZE
mm 1400 x 800 x 1700 h

Leak test equipment
B-LEAK

Featured Model **B-LEAK**

B-LEAK is a device designed to assess the seal integrity of blister packs or other packaging with methylene blue visual inspection under vacuum.

- Quick and simple installation
- Dry air, non-condensing, filtered 5 microns and oil-free
- Blisters – sticks – sachets – tubes – suppositories
- Ensuring 100% test reproducibility

CHAMBER SIZE
Ø 250 x 200 mm (internal)

MACHINE SIZE
mm 310 x 350 x 250 h

Syringes filling and stoppering
FSC-1

Featured Model **FSC-1**

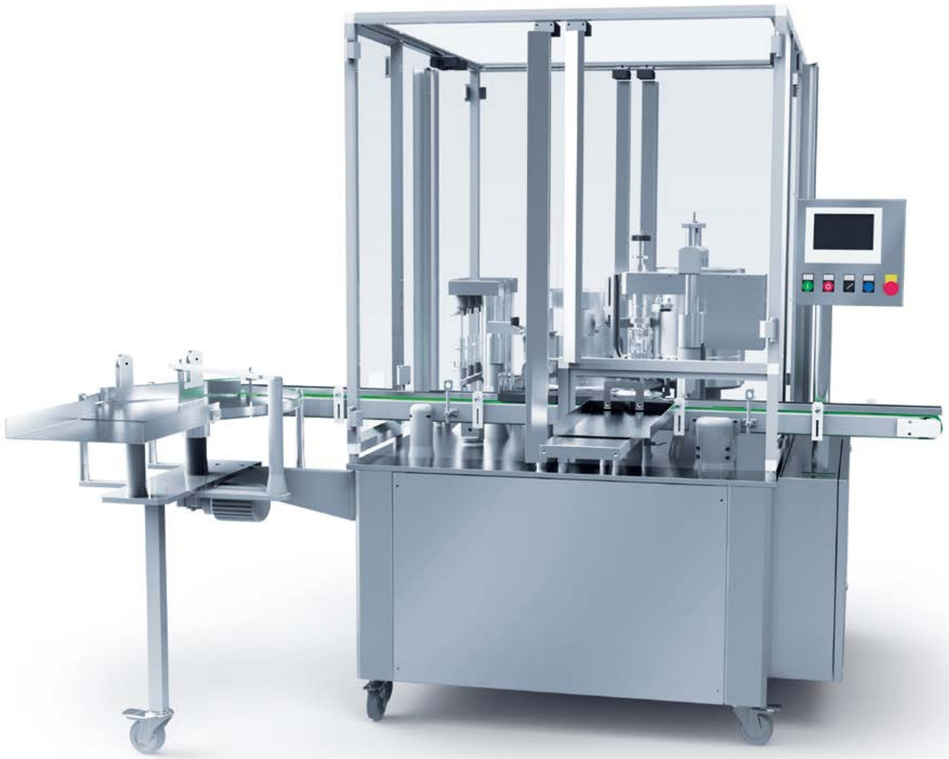
The filling and stoppering machine for disposable syringes, designed and built in conformity with cGMP standards.

- Syringe measurement: Ø min 6,75 mm (0.5 ml) / Ø max 32 mm (50 ml)
- Automatic selection of rubber stoppers
- Automatic syringe unloading
- Dosing by stainless steel dosing pump, rotating piston type or peristaltic pump
- Inner gas flushing during filling
- Laminar flow

OUTPUT
Up to 1.000 syringes / h

Vials filling and stoppering
FCM-1

Featured Model **FCM-1**



The filling and closing machine for vials, designed and built in compliance with the cGMP standards.

- Vial diameters: Ø min 8 mm / Ø max 55 mm
- Automatic loading of bottles
- Automatic dosage adjustment
- Ideal for small batches
- Nitrogen flushing before or during filling
- Laminar flow

OUTPUT
Up to 1.000 vials / h

Optical bench equipment with glass lens
CMP1

Featured Model **CMP1**

CMP1 is the QC equipment for the optical inspection of ampoules, vials, cartridges and prefilled syringes.
It is possible to decide the kind of light to be used (bottom light or back light) and the rotation speed.
The operator places the container on the customized base and can adjust the spinning speed depending on the kind of product.

APPLICATION
- Ampoules, vials, cartridges and prefilled syringes
- Capacity: from 1 ml to 50 ml
- Injectable liquids

INSPECTIONS
- Extraneous reflecting and no reflecting particles
- Fibers, glass

Optical bench equipment with camera
CMP1-E

Featured Model **CMP1-E**

CMP1-E is the QC equipment for the optical inspection by camera of ampoules, vials, cartridges and prefilled syringes. It is possible to decide the kind of light to be used (bottom light or back light) and the rotation speed.
The result of the inspection is automatically shown on the monitor by the system.
CMP1-E is compliant with CFR21 part11 norms.

APPLICATION
- Ampoules, vials, cartridges and prefilled syringes
- Capacity: from 1 ml to 50 ml
- Injectable liquids

INSPECTIONS
- Extraneous reflecting and no reflecting particles
- Fibers, glass

Bench for leak test control by HVLD
iLT

Featured Model **iLT**

iLT is the QC equipment for the leak test control of ampoules, vials, cartridges and syringes filled with liquid products.
It is possible to adjust the position of theelectrode (height and depth) depending on containers' format. iLT is equipped with a brushless motor to check 360 degrees the containers during the control. iLT is compliant with CFR 21 part11 norms.

APPLICATION
- Ampoules, vials, cartridges and prefilled syringes
- Capacity: from 1 ml to 30 ml
- Injectable liquids

STANDARD INSPECTIONS
- Hairline fissures and pinholes
- Leaking ampoule neck tips

Bench for leak test control for plastic strips

iLT -S

Featured Model **iLT -S**

iLT-S is the QC equipment for the leak test control of plastic ampoules in strips.
Using HVLD (high voltage leak detection) system it checks possible leakages
on the neck and bottom sealing area of plastic strips.
iLT-S HMI is compliant with CFR21 part 11 norms.

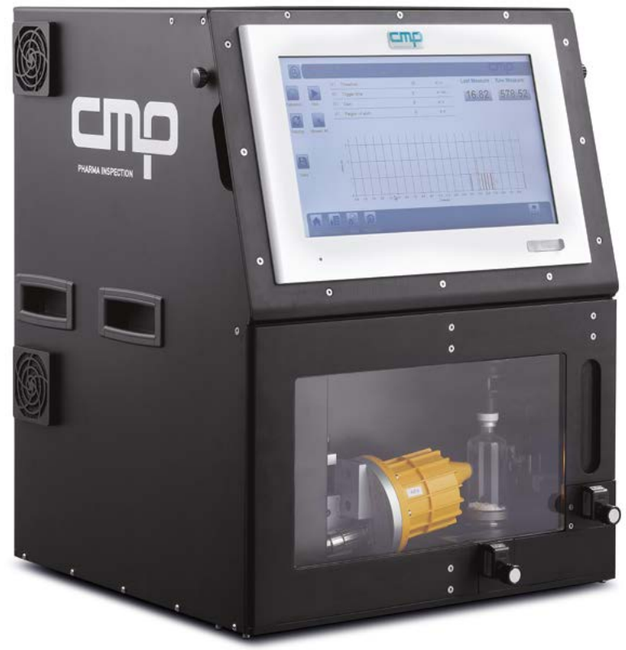
APPLICATION
- Plastic ampoules in strips
- Height: from 50 mm to 120 mm

STANDARD INSPECTIONS
- Hairline fissures and pinholes
- Leaking on neck and sealing area

Leak test bench for oxygen headspace system for lyo and powder products control

O2B

Featured Model **O2B**



The oxygen leak test bench O2B has been designed to check the integrity
of the containers. The control system is based onTDLAS technology.
O2B is compliant with CFR21 part11 norms.

APPLICATION
- Ampoules and vials
- Capacity: from 1 ml to 100 ml
- Lyo and powder products

STANDARD INSPECTIONS
- Leak test control

Vacuum turboemulsifiers
TURBO MEK 5-10

Featured Model **TURBO MEK 5-10**

Lab vacuum turboemulsifier suitable for processing creamy
- semi_solids - liquid products.

- Useful capacity: min 2,5 l - max 14 l
- Parts in direct contact with product in AISI 316 stainless steel (optional)
- TriClamp connections on the lid
- Slow coaxial mixing system (counter-rotating)
- Digital visualization of the process parameters
- TOUCH 12" operator panel with Siemens PLC

CAPACITY
Min 2,5 l - max 14 l

Vacuum turboemulsifiers
TURBO MEK 15-25

Featured Model **TURBO MEK 15-25**

Lab vacuum turboemulsifier suitable for processing creamy
- semi_solids - liquid products.

- Useful capacity: min 5 l - max 34 l
- Parts in direct contact with product in AISI 316 stainless steel (optional)
- TriClamp connections on the lid
- Slow coaxial mixing system (counter-rotating)
- Digital visualization of the process parameters
- TOUCH 12" operator panel with Siemens PLC

CAPACITY
Min 5 l - max 34 l

Capsule filling
IN-CAP TRIPLE DOSING

Featured Model **IN-CAP TRIPLE DOSING**

Up to three different products into one capsule.

- Suitable to handle all capsule sizes 000-00el-00-0el-0-1el-1-2el-2-3-4-5 and all DBCaps
- Independent station or double or triple combination
- Process area completely separated from technical area
- DUST TIGHT and IP 55 version also available

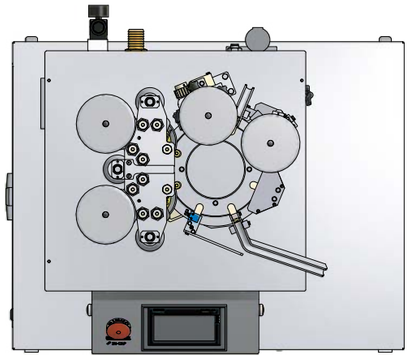
OUTPUT
Up to 3.000 caps / h

MACHINE SIZE
mm 700 x 700 x 950 h

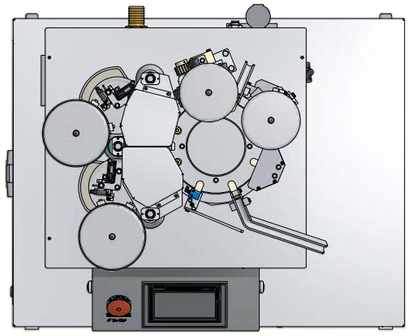
Video

Capsule filling
IN-CAP DPD

Featured Model **IN-CAP DPD**



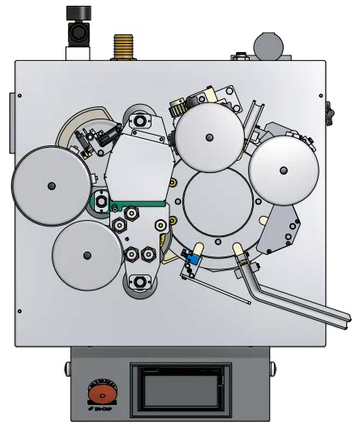
2 TAMPING + PELLET



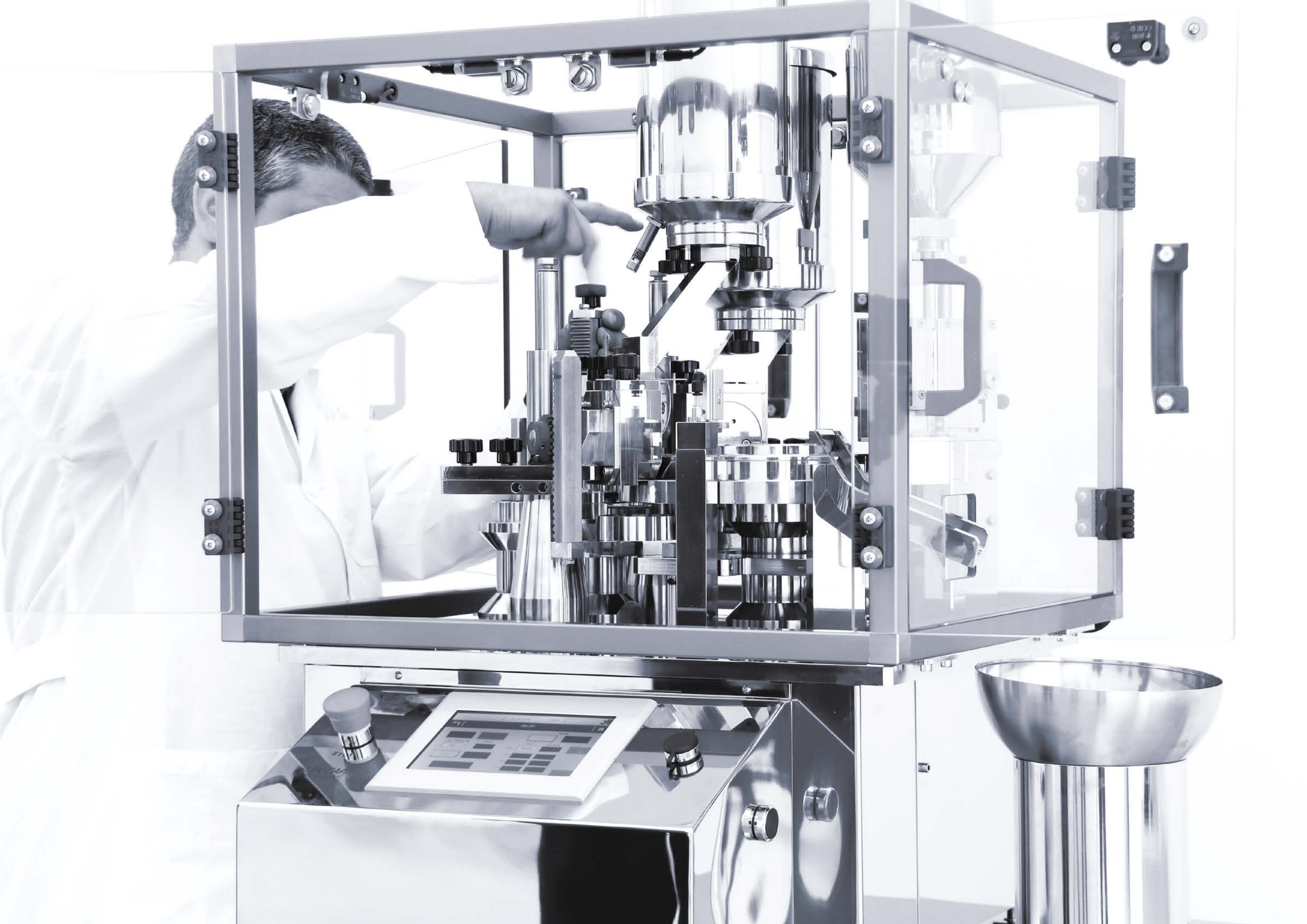
2 DOSATOR + PELLET

Double powder dosator.

- Suitable to handle all capsule sizes 000-00el-00-0el-0-1el-1-2el-2-3-4-5 and all DBCaps
- Independent station or double or triple combination
- Process area completely separated from technical area
- DUST TIGHT and IP 55 version also available



PELLET + DOSATOR + TAMPING
(patent pending)



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The technical specifications given in this catalogue
are subject to change without prior notice or liability.

Size range may vary in accordance with the different applications.

**The Marchesini Group constantly updates
its products to meet market needs.**

Edition May 2024

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