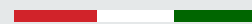


DOTI BONAPACE

PHARMACEUTICAL & LAB EQUIPMENT SINCE 1946

SUPPOSITORY OVULES

AUTOMATIC MACHINES FOR
FILLING, COOLING AND SEALING
OF OVULES, SUPPOSITORIES
PREFORMED SHELLS/ FILM
EXCIPIENT



BP-2 | BP-10

Filling unit for preformed suppositories / ovules.

SINCE THE 60'S DOTT.BONAPACE & C. SRL SELLS THOUSANDS OF THESE UNITS ALL AROUND THE WORLD AND BP-2 / BP-10 ARE THE RESULT OF OVER 50 YEARS OF EXPERIENCE. THEY'RE DESIGNED FOR LABS, SMALL BATCH PRODUCTIONS AND PHARMACIES. THESE MACHINES ARE REALLY COMPACT AND THEY CAN BE POSITIONED ANYWHERE.



THE FILLING PROCESS IS SIMPLE AND STARTS WHEN THE CONTAINERS FROM THE LOADING DISC ARE AUTOMATICALLY UNWOUND AND FED UNDER THE DOSING NOZZLE, FILLED WITH MELTED SUPPOSITORY MASS WHICH IS KEPT AT A CONSTANT TEMPERATURE AND MIXED IN THE JACKETED HOPPER. THE FILLED CONTAINERS ARE AUTOMATICALLY REWOUND ON THE SUPPORTING DISC PLACED AT THE DISCHARGE OF THE FILLING MACHINE. IT IS COMPLETELY MANUFACTURED IN ITALY ACCORDING TO CE AND GMP RULES.

OPERATIVITY:

AUTO

FILLING RANGE:

UP TO
3.5
CC

USABILITY:

EASY
TO USE

MODELS

BP-2

The smallest filling unit. **Suitable to process up to 3600 shells/h.** Equipped with an adjustable nozzle with a dosing range up to 3.5cc (increments of 0.10cc). BP-2 is equipped by a 10l jacketed hopper with water circulation. Hopper temperature range from 30°C up to 85°C – tolerance ±0.5°C. All parts in contact with the product are made in stainless steel 316L.



BP-10

It's the larger version of the BP-2 and can produce up to 6000 shells/h. It is equipped with a touch screen and has a 25l jacketed hopper with water circulation. The dosing range is the same as the BP-2 unit. Also, the hopper temperature range. All parts in contact with the product are made in stainless steel 316L.



RELATED MACHINES

+ BP-3 SEALING/ CODING/ CUTTING UNIT



+ CU-2 COOLING UNIT



+ BP-11 SEALING/ CODING/ CUTTING UNIT



+ CU-4 COOLING UNIT



+ HIGH SPEED LINES ALSO AVAILABLE (UPON REQUEST)

+ THERMOFORMING MACHINES ALSO AVAILABLE (UPON REQUEST)

TECHNICAL DATA

BP-2

• SIZE	150 x 65 x 105 H. cm
• NET WEIGHT	45.00 Kg
• CONTAINERS FILLED	Suppositories - Vaginal ovules
• ELECTRIC VOLTAGE	230 V - 50/60 Hz - single-phase
• ELECTRIC ABSORPTION	800 W

BP-10

• SIZE	150 x 65 x 105 H. cm
• NET WEIGHT	60.00 Kg
• CONTAINERS FILLED	Suppositories - Vaginal ovules
• ELECTRIC VOLTAGE	230 V - 50/60 Hz - single-phase
• ELECTRIC ABSORPTION	2000 W

BP-3 | BP-11

Sealing, coding and cutting unit
for preformed suppositories / ovules.

3 OPERATIONS, JUST ONE MACHINE – THOUSANDS OF UNITS SOLD. THEY ARE THE BP-2/BP-10 COMPLEMENTARY UNITS. DESIGNED FOR LABS, SMALL BATCH PRODUCTIONS AND PHARMACIES. THESE MACHINES ARE REALLY COMPACT AND THEY CAN BE POSITIONED ANYWHERE. **BP-3 / BP-11** COMPLETE THE PRODUCTION CYCLE PROCESSING THE SEALING – CODING – CUTTING PHASE.



THE SEALING PROCESS IS PERFORMED BY HEATING IMPULSE AND THE CODING PHASE IS PROCESSED BY 2 DIFFERENT KIND OF SYSTEMS (UPON REQUEST) WHICH ARE THE EMBOSING CODING AND THE THERMIC ONE. THE CUTTING PHASE IS COMPOSED BY 2 MAIN OPERATION: THE TRIMMING CUT AND THE FINAL CUT. THE TRIMMING CUT IS PROCESSED BY AN HORIZONTAL BLADE WHICH AUTOMATICALLY CUTS THE SHELLS' TOP EDGE. CONCERNING THE FINAL CUT, THIS PHASE IS PROCESSED BY A VERTICAL BLADE AND THE OPERATOR CAN SET THE STRIP NUMBER (THE MIN. STRIP IS COMPOSED OF 2 SHELLS).

OPERATIVITY:

AUTO

CODING:

**EMB
OSS
ING**

OR

THERMIC

MODELS

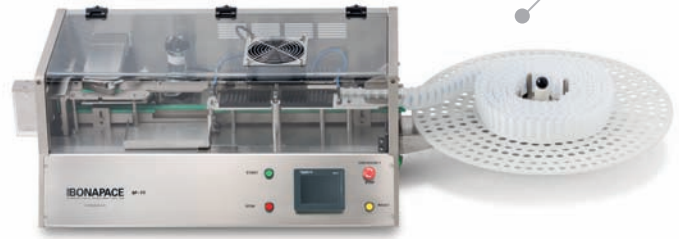
BP-3

A really compact solution to end the production cycle started with the filling. **BP-3 processes up to 3600 shells/h.** No parts are in contact with the product and with an excellent design, it is really easy to setup. Same parts to process suppositories and ovules (no change parts needed).



BP-11

This model is the larger version of the BP-3. **The BP-11 processes up to 6000 shells/h.** Using its touch screen the setting will never be a problem (friendly user interface). It is possible to set parameters like pre-heating, heating temperature, heating time and more.



RELATED MACHINES

+ BP-2 FILLING UNIT



+ CU-2 COOLING UNIT



+ BP-10 FILLING UNIT



+ CU-4 COOLING UNIT



+ HIGH SPEED LINES ALSO AVAILABLE (UPON REQUEST)

+ THERMOFORMING MACHINES ALSO AVAILABLE (UPON REQUEST)

TECHNICAL DATA

BP-3

• SIZE	130 x 55 x 30 H. cm
• NET WEIGHT	35.00 Kg
• CONTAINERS FILLED	Suppositories - Vaginal ovules
• ELECTRIC VOLTAGE	230 V - 50/60 Hz - single-phase
• ELECTRIC ABSORPTION	320 W

BP-11

• SIZE	130 x 55 x 30 H. cm
• NET WEIGHT	40.00 Kg
• CONTAINERS FILLED	Suppositories - Vaginal ovules
• ELECTRIC VOLTAGE	230 V - 50/60 Hz - single-phase
• ELECTRIC ABSORPTION	480 W

CU-2 | CU-4

For pre-formed containers / shells.

LET'S BE COOL. **CU-2** AND **CU-4** INTRODUCE THE COOLING PHASE TO THE SHELLS' LINE. THE COOLING PROCESS IS REALLY IMPORTANT TO GET A WELL SOLID SUPPOSITORY OR OVULE SHELLS. THESE UNITS ARE BASED ON CONTINUOUS VENTILATION CONCEPT WHICH BRING THE PRODUCTS FROM LIQUID TO SOLID WITH A PROGRESSIVE COOLING. THE TEMPERATURE CAN BE SET FROM 15°C UP TO 25°C.

VENTILATION:

CONTINUOUS

COOLER:

UP TO
6950
BTU/H

ADJUSTABLE
TEMPERATURE:

FROM 15° UP TO 25°



CU-2

RELATED MACHINES

CU-4

+ BP-2 FILLING UNIT



+ BP-3 SEALING/ CODING/ CUTTING UNIT



+ BP-10 FILLING UNIT



+ BP-11 SEALING/ CODING/ CUTTING UNIT



+ HIGH SPEED LINES ALSO AVAILABLE (UPON REQUEST)

+ THERMOFORMING MACHINES ALSO AVAILABLE (UPON REQUEST)

TECHNICAL DATA

CU-2

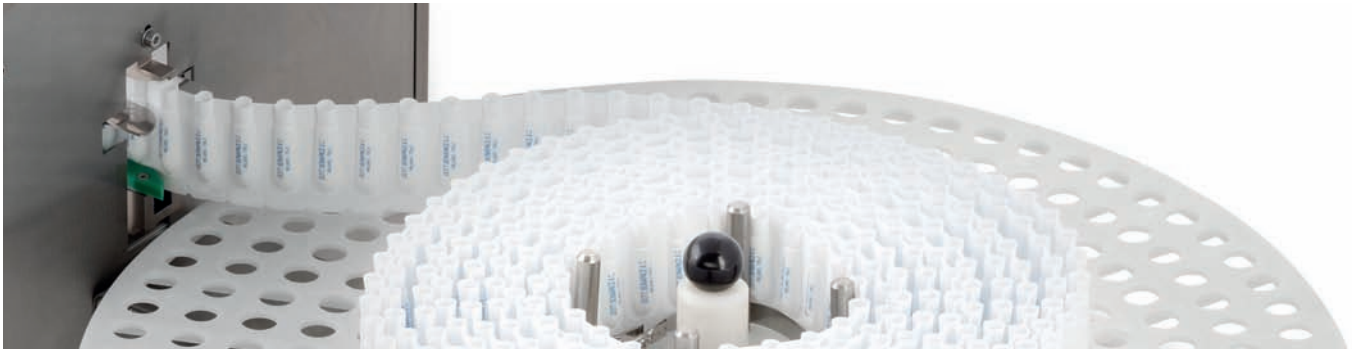
• SIZE	1750 x 950 x 1250 H. cm
• NET WEIGHT	300.00 Kg
• COOLING CAPACITY	6950 BTU/h
• ELECTRIC VOLTAGE	230 V - 50/60 Hz - single-phase
• ELECTRIC ABSORPTION	1 KW

CU-4

• SIZE	2250 (3035) x 950 x 1250 H. cm
• NET WEIGHT	350.00 Kg / (390.00 Kg)
• COOLING CAPACITY	6950 BTU/h
• ELECTRIC VOLTAGE	230 V - 50/60 Hz - single-phase
• ELECTRIC ABSORPTION	1 KW

PREFORMED SUPPOSITORY | OVULE SHELLS

WE SOLD AND CONTINUOUSLY SELL HUNDREDS OF MILLIONS OF EMPTY SUPPOSITORY & OVULE SHELLS PER YEAR ALL OVER THE WORLD. THE SHELLS CAN BE MANUFACTURED IN 2 DIFFERENT MATERIALS, JUST IN PVC OR IN PVC/PE. THEY'RE COMPLETELY WHITE AND WE'VE A DOUBLE OPENING OPTION: TEAR-OFF OR PEEL-OFF. THE THICKNESS CAN BE 127 MICRONS ($\pm 10\%$) OR 147 MICRONS ($\pm 10\%$) AND WE CAN PRINT THEM ALSO ON BOTH SIDES AND WITH 2 DIFFERENT COLORS.



SHELLS AVAILABLE

PEEL-OFF SUPPOSITORIES			PEEL-OFF OVULES	TEAR-OFF SUPPOSITORIES			TEAR-OFF OVULES
0.60 CC	1.75 CC	2.75 CC	1.00 CC	1.00 CC	2.00 CC	3.00 CC	2.00 CC
1.00 CC	2.00 CC	3.00 CC	2.00 CC	1.25 CC	2.25 CC	3.25 CC	2.50 CC
1.25 CC	2.25 CC		2.50 CC	1.50 CC	2.50 CC	3.50 CC	3.00 CC
1.50 CC	2.50 CC		3.00 CC	1.75 CC	2.75 CC		3.50 CC

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+ OTHER CAPACITIES UPON SPECIAL EXECUTION

+ FILM / NOT PREFORMED MATERIAL (FOR THERMOFORMING MACHINES) ALSO AVAILABLE

EXCIPIENT FOR SUPPOSITORY MASS

OVER THE MACHINES, OVER THE SHELLS WE DECIDED TO COMPLETE THE FULL PRODUCTION CYCLE INTRODUCING EXCIPIENTS FOR SUPPOSITORIES. IT IS A BASE ACCORDING TO THE CURRENT MONOGRAPHS "HARD FAT, ADEPS SOLIDUS", PH. EUR. AND "HARD FAT", USP-NF. THEY ARE WHITE, ODOURLESS HARD FATS IN PASTILL SHAPE AND COMPRISE OF GLYCERIDES OF PLANT ORIGIN. HIGHLIGHTED BASES CONTAIN CERTAIN ADDITIVES (F.I. BEES WAX OR AN EMULSIFIER).

+ AVAILABLE OVER 15 DIFFERENT EXCIPIENT TYPES.

DOTT **BONAPACE**
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