

*Since 1946*

# DOTT. BONAPACE & C.

Pharmaceutical Equipment



## Automatic machines for the filling, cooling and sealing of suppositories and ovules



**BP-2/3 + CU-2: up to 3.600 suppositories per hour**  
**BP-10/11 + CU-4: up to 6.000 suppositories per hour**  
**BP 115: up to 15.000 suppositories per hour**

*Dott. Bonapace: pharmaceutical R&D and lab scale equipment*

## Filling machine



Mod. BP-10



### Production Cycle

The BP-2/3 line, as our model BP-10/11 line and BP-115 line, utilizes pre-formed suppository containers in reel.

The containers from the loading disc placed at the entrance of the filling machine are automatically unwind and fed under the dosing nozzle, filled with melted suppository mass which is kept at a constant temperature and mixed in the jacketed hopper.

Then, the filled containers are automatically rewound on the supporting disc placed at the outlet of the filling machine and at the same time are cooled off by the cooling unit.

Afterwards the disc with the filled containers is replaced by a new one and the filling cycle may restart. Meanwhile, the disc containing the reel previously filled may continue cooling until the contents solidify in the drawer of the cooling unit.

For the final stage, the cooled reel is placed on the sealing machine where the containers are automatically sealed, codified (by embossing), trimmed and cut in the pre set number.

*Variable speed mixer  
inside the hopper*

### Machine's specifications

Dosing group with single nozzle: dosing range adjustable from 0 to 3,5 cc with micrometric increments of 0,10 cc.

10 liters jacketed hopper with water circulation for BP-2 - 25 liters jacketed hopper with water circulation for BP-10

Hopper temperature range from 30 to 85° C. Temperature tolerance inside the hopper +/- 0,5° C.

Double wing stirrer with adjustable speed inside the hopper

No container - no filling

All parts in contact with the product are in stainless steel Aisi 316 L

Absorbed power: 450 watts for BP-2 - 2000 watts for BP-10

## Machine's specifications

### Cooling unit CU-2

Blowing fan: tangential high efficiency type, hp. 0,5
Thermostat: two stages for cold or warm air blowing control
Cooler: 6950 btu/h approx.
Absorbed power: 1kW

### Cooling unit CU-4

Blowing fan: tangential high efficiency type, hp. 0,5
Thermostat: two stages for cold or warm air blowing control
Cooler: 6950 btu/h
Absorbed power: 1kW

## Complete line



BP-10 BP-11 CU-4

## Machine's specifications

- Sealing performed by impulse heating
- Temperature stabilisation of sealing jaws assured by one high-flow fan for BP-3 and by two high-flow fans for BP-11
- Sealing temperature adjustable by a 6 positions commutator
- Coding of containers by embossing during the sealing operation
- Automatic trimming of top edge of containers after sealing operation
- Cutting in strips of a pre-set number
- Absorbed power: 350 watts for BP-3 / 480 watts for BP-11

## Sealing, coding and cutting machine



Mod. BP-3

## Types of coding



Thermic coding



Ink Jet

## Embossing



Coding writing group

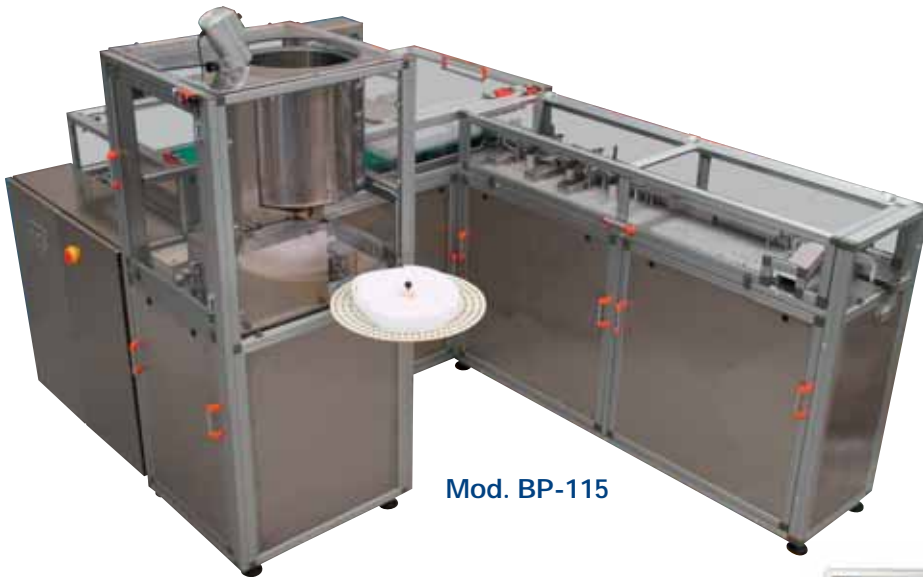


Stainless steel ribbon



Box of 100 characters

**High speed line also available**



**Mod. BP-115**

**Output: 15.000 suppositories per hour**

Pre-formed suppository shells could be supplied. Alternatively, the thermoforming machine VS-140 is also available. Output: up to 15.000 suppositories per hour.



**Mod. VS-140**

<b>EXPORT DATA</b>	<b>NET WEIGHT</b>	<b>GROSS WEIGHT</b>	<b>PACKING DIMENSIONS</b>
BP-2	44 kg	83 kg	cm 76 x 76 x 86 h
BP-3	31 kg	52 kg	cm 58 x 86 x 52 h
CU-2	220 kg	400 kg	cm 200 x 116 x 160 h
BP-10	59 kg	103 kg	cm 82 x 92 x 90 h
BP-11	38 kg	65 kg	cm 56 x 96 x 50 h
CU-4	300 kg	500 kg	cm 250 x 210 x 100 h
Thermic coding	25 kg	40 kg	cm 60 x 80 x 52 h

Note: machines are manufactured according to GMP and CE rules



**Please ask for offers for pre-formed suppository containers in reel and suppository mass excipient**

Consult our Web Site [www.dottbonapace.com](http://www.dottbonapace.com) to get the complete sale's program of our machines.



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