IN-CAP®

Automatic Bench Top Capsule Filling Machine
for Powders with tamping and dosator system, Pellets, Tablets, Mini-Tablets, Capsule in Capsule and Liquids

To View Available IN-CAP at www.ssllc.com Please Click Here
WHAT IS IN-CAP?

IN-CAP: the first bench top capsule filling machine fully automatic. In a few years, it has become rather popular all over the world among R&D laboratories, pharmacies, hospitals, etc. for trials research, batch productions, and in laboratories for full production utilisation. Now available with predisposal of liquids or semi-dense products filling station, pellets, tablets and mini-tablets. The machine can be supplied either with tamping or dosator system.

Machine manufactured according to CE and GMP rules. IQ/OQ validation package available upon request.

FOR LIQUID FILLED CAPSULES BANDING MACHINE ALSO AVAILABLE

IN-CAP MACHINE
EQUIPPED WITH POWDER AND LIQUIDS DOSING STATIONS

Pellets filler

IN-CAP® LIQUID VERSION

Liquid filler

IN-CAP® LIQUID VERSION

Liquid filling nozzle from 0.15 to 1000 mg

IN-CAP MACHINE
EQUIPPED WITH POWDER AND PELLETS DOSING STATIONS

Tablet Filler and Capsule in Capsule
DOSATOR SYSTEM
A new dosator powder filling system has been developed to complement the existing dosing disc filling system currently available.

This new system will enable powders to be developed for all types of production equipment, as well as allowing different types of product to be handled in the way best suited to their characteristics.

The system consists of a ring of dosator tubes, each with an internal pin which forms the chamber. The length of this chamber is centrally adjustable, to suit the filling requirements. The dosators are raised and lowered each cycle, while being rotated as the machine indexes.

The tubes are lowered in the powder bed of the hopper, with an adjustable tamping facility if required for forming a slug of product. They continue to rotate until located over the open body of the capsule when the dosator pin is used to push the powder out of the chamber and into the capsule.

The hopper consists of an annular ring, minimising the amount of product needed to allow the unit to run. The depth of the powder bed is adjustable while the residual product is agitated after the dosing station. A bulk hopper feeds powder to this device and has been designed to minimise the problems of bridging experienced with some products.

STAINLESS STEEL VERSION
s.s AISI 316 for all parts in contact with product
s.s AISI 304 for all the other parts

Double Powder Station

SUITABLE FOR ISOLATOR WITH IP 65, DETACHABLE CONTROL PANEL

WIP In-Cap

TAMPING PROCESS

DOSATOR

Lower Powder Hopper

Powder Feeding Hopper

Carrot Formation

Carrot Discharge

DOSING NEEDLES

Rotating Dosing Drum

Carrot

Discharge Needle

Capsule

WIP In-Cap into isolator
Technical data

- Capsule sizes: 000 - 00 - 00el - 0 - 0el - 1 - 1el - 2 - 3 - 4 - 5 - all DBCaps
- Electric voltage: 230-110 Volts - 50- 60 cycles - single phase
- DC Motor: 160 Watt - 24 Volts
- Vacuum pump for capsule opening: capacity 6 m³/hour
- Aspirating vacuum pump: capacity 90 m³/hour Delta P . 120 Millibar
- Air compressor: capacity 50.l/minute - working pressure 6 Bar
- Electric absorption: 0,5 kW (including the vacuum pump)
- Net weight of the standard machine: 150 kg (approx.)

Shipping details

**IN-CAP**: gross weight 200 kg - case dimensions: 107 x 87 x 116 cm
Carriage: gross weight 165 kg - case dimensions: 107 x 87 x 116 cm

Possible dosing combinations for our IN-CAP machine

- Powder
- Powder + liquids
- Powder + powder
- Pellets (microgranules)
- Pellets + powder
- Liquid or jelly
- Liquid or jelly + powder
- Mini-tablets + powder or pellets
- Tablet + powder or pellets
- Capsule in capsule + powder or pellets

Special applications:

- Use of DB capsules
- Special dosing discs for minimal powder dosages (starting from 8 mg)
- Pellets + tablet + pellets
- Pellets + pellets + powder
- Pellets + powder + powder
- Pellets + pellets + pellets
- Special execution in stainless steel
- Tablets + powder + mini-tablets
- Other applications upon request

Some filling examples

- Powder
- Pellets
- Powder and pellets
- Powder and tablets
- Powder and powder and pellets
- Pellets and tablets
- Pellets and powder
- Pellets and pellets
- Capsule in capsule

Change size Kit

Change size operation takes less than 10 minutes. No tool required.
- 8 upper bushings (1)
- 8 lower bushings (2)
- 1 dosing disc with counter disc (3)
- 1 capsule orientating group (4)
- 4 pins for powder compression (5)
- 1 pin for powder transfer into the capsule body (6)
- 1 pin for capsule closing (7)

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IN-CAP working cycle

- Tamping group or DOSATOR
- Pellets/liquid/tablet dosing
- Powder dosing group
- Powder hoppers
- Dosing disc
- Checking of capsule opening and ejection of closed capsule
- Capsule orientating and feeding
- Bushing cleaning with compressed air
- Free station for change size operation or special dosing group
- Cap closing
- Filled capsule ejection

IN-CAP suitable to fill all capsule sizes with tamping or dosator system

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

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