



Laboratory, Pilot & Production Scale Process & Packing Technik for
Powder, Liquid & Semi Liquid



AUTOMATIC CAPSULE FILLING MACHINE

Prism Pharma Machinery®

An ISO 9001 - 2015 Certified Company



Greetings,

Prism Pharma Machinery founded in 2003 and has been manufacturing process & packing equipments for process of Powder, Liquid & Semi Liquid in application in Pharmaceuticals, Biotech, Nutraceuticals, Cosmetics, Foods, Dairy, Bakery, Confectionery, Agro Chemical, Chemicals, Herbals, Paints, Ceramics &, Catalysts for production, pilot & lab scale batch size.

Prism Pharma Machinery is having wide range of equipments for processing for drying, granulating, mixing, milling, blending, tableting, coating, pelletizing, homogenizing, material conveying & cleaning as well as process integration and process automation service. Also prism offers complete packing solution for tablet, capsule, powder, liquid & semi liquid line. Prism focuses on specialized mechanical engineering, especially process engineering and automation engineering by applies innovative technology approach and quality standard. We obtained the ISO 9001 : 2015 certificate and CE certificate for our products.

We sincerely would like express our thanks to our customers for supporting and affection. Prism has been and will be working more closely with all its precious customers and partner companies, keeping deep in mind the fact that sharing efforts makes sharing fruits.

Thanks you.....

Prism Pharma Machinery



Automatic Capsule Filling Machine



Ensule

Ensule is a Fully Automatic Capsule Filling machine to fill powder in the form of slug in hard gelatin capsules. These are high speed, high performance machines that incorporate latest international design and is built with precision using most appropriate materials and up-to-date manufacturing systems. Different models are available for various output requirements. This machine is also capable of filling pellets and tablets for flexibility of multiple dosage combination such as powder + pellets + tablet. It is an extremely durable and reliable machine that fills dosages to the highest accuracy and is capable of filling all sizes from # 0 to # 4 of capsules, It is also easy to clean and meets GMP standards





Automatic Capsule Filling Machine



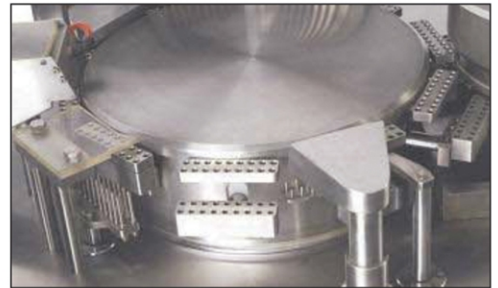
Operational Functions

Empty Capsule Loading And Separation Assembly

The function of Capsule Loader is to orient the empty capsules with "Cap up and body down" by rectifying mechanism and to load them into the upper segment of Turret, The vacuum under the lower segment separate the capsule body into the lower segment hole from the capsule cap. The capsule cap remains inside the upper segment.

Fully Enclosed Turret Assembly

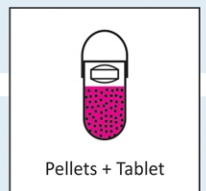
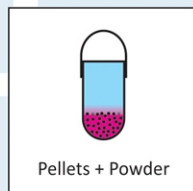
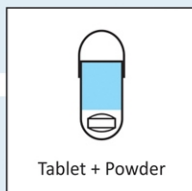
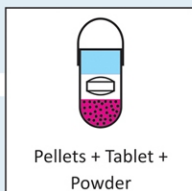
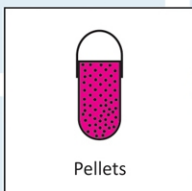
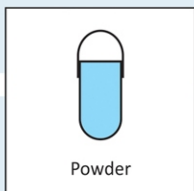
The turret has a rotating indexing motion, It has 10 pairs of cap and body holder segments with the cap holder segment located above the body holder segment. Function of turret is to transport Capsules from one station to another station. During the dwell period of indexing various operation related to capsule filling are performed. Fully enclosed structure protects moving components from dust contamination.



Fully Enclosed Tamping Type Powder Filling Assembly

Powder from hopper is fed, and its level is maintained, in to the tub of 'Tamping Assembly' by an automated auger. The 'Tamping Assembly' consists of six sets of reciprocating tamping pins and a rotary indexed dosing disc. First five sets of tamping pins progressively compress powder in the cavities of dosing disc to form slugs. The sixth set inserts these slugs in to capsule body. Fully enclosed construction ensures minimum wastage.

Filling Possibilities & Combinations



Automatic Capsule Filling Machine



Technical Specifications

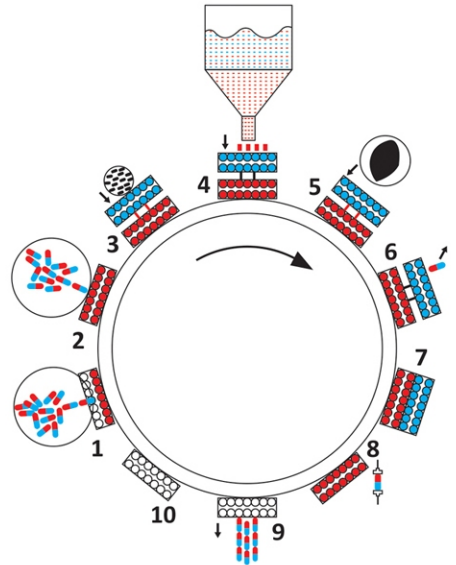
Description	PCAP - 400	PCAP - 750	PCAP - 1500	PCAP - 2000
Rated Output (Powder)	24,000 per hour	45,000 per hour	90,000 per hour	120,000 per hour
Rated Output (Pellets)	15,000 per hour	35,000 per hour	70,000 per hour	95,000 per hour
Electrical Connection	380 V / 3 Ph AC / N + Earth (Other Voltage on Request)			
Power Consumption (Inclusive of Drive, Vacuum Pump & ADU)	5.5 kw	6.5 kw	8 kw	8 kw
Compressed Air Requirement	200 LPM @ 4 Bar Pressure			
Overall Dimensions (LxHxW)	850 x 950 x 2200	850 x 1000 x 2200	1070 x 1200 x 2200	1070 x 1200 x 2200
Net Weight	900 kg	1000 kg	1400 kg	1450 kg



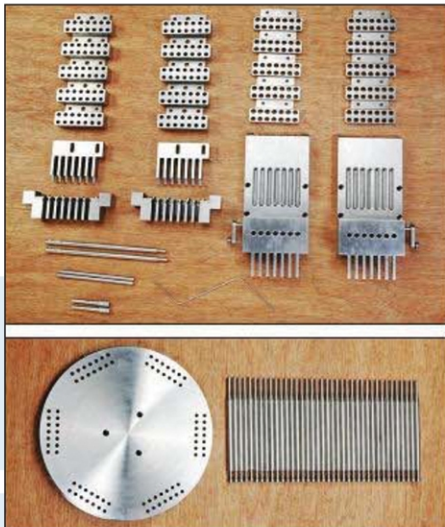
Automatic Capsule Filling Machine

Position Wise Functional Sequence

1. Empty Capsule loading and separation
2. Empty Capsule loading and separation
3. Tablet Filling (optional)
4. Tamping style Powder Filling (standard)
5. Pellet or Tablet Filling (optional)
6. Ejection of un-separated capsule
7. Idle
8. Capsule closing
9. Discharge of filled capsules
10. Segment cleaning



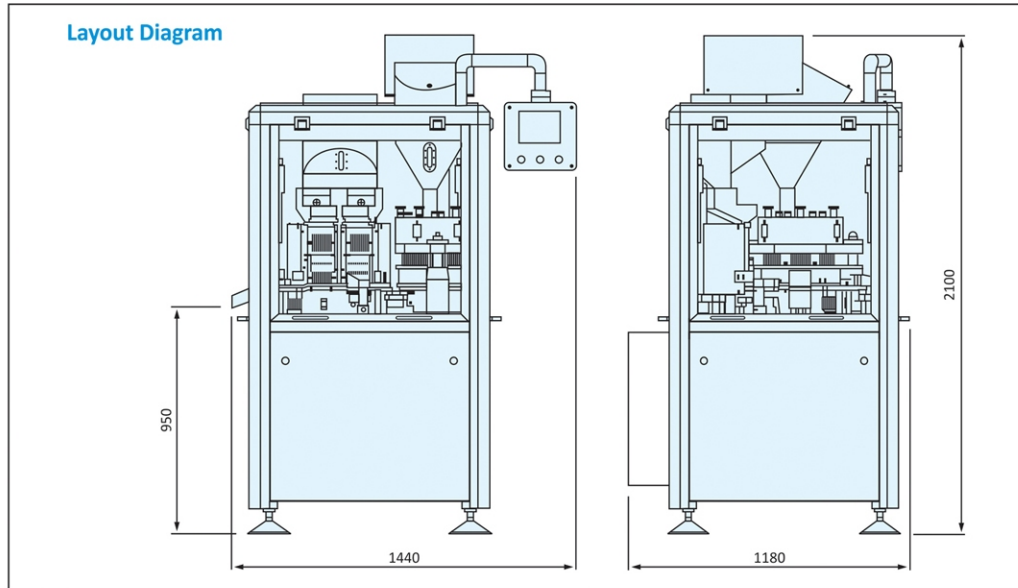
Change Parts



Features

- PLC & Touch Screen controlled machine.
- Product handled: powder as standard. Pellet and tablet feeding devices optional.
- Compact ,sturdy and meets cGMP standard.
- Suitability for capsule size: 0, 1, 2, 3 and 4 - with size changeover.
- Dosing System: Tamping (slug formation through progressive compression).
- Quick & easy fill weight adjustment.
- Tamping System for powders ensures accurate and better fill weight.
- Fill weight accuracy of $\pm 2\%$.
- Powder sensor maintains constant level of powder in the dosing chamber.
- Audio alert on capsules running low in hopper.
- Variable speed AC drive for main motor ensures speed adjustment.

Automatic Capsule Filling Machine



Filled Capsule Polisher And Sorter

CAPSULE POLISHER uses rotating brush principle to clean capsules on continuous basis. Capsules are fed into the polishing chamber from the in feed hopper. The spiral brush pushes the capsules towards the delivery chute against the force of gravity. During this process, the capsules undergo a rubbing action against the nylon bristles and surface powder gets removed.

SORTER : This optional filled capsule sorter unit is integrated with polisher unit and is engineered to remove empty, broken, un-separated and half filled Capsules.



Technical Specifications

Capacity upto : 120,000 Capsules/hour	Motor : 0.25 kw
Dimensions 1000 x 700 x 950	Weight 50 kg

Dust Collector Unit

Dust collector unit or air displacement unit is used for removal of un-separated capsule powder dust. It has been kept on trolley and is advised to keep away from capsule filling machine in separate room.

Technical Specifications

Flow : 2800 LPM	Motor : 3.0 kw
Dimensions 850 x 550 x 1250	Weight 120 kg



Prism's Global Presence

Algeria	Congo	Iraq	Nepal	South Africa	UK
Australia	Ecuador	Italy	Nether land	Spain	Ukraine
Afghanistan	Egypt	Jordan	New Zealand	Sri Lanka	USA
Bangladesh	El-Slavador	Kenya	Northern Ireland	Sweden	Vietnam
Belarus	Ethiopia	Lebanon	Nigeria	Syria	Yemen
Belgium	Finland	Macedonia	Oman	Thailand	Zambia
Bulgaria	Ghana	Malawi	Peru	Tunisia	
Canada	Hongkong	Malaysia	Russia	Turkey	
Chile	Indonesia	Mexico	Saudi Arabia	UAE	
Colombia	Iran	Myanmar	Singapore	Uganda	



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Prism Pharma Machinery®

Manufacturer & Exporter of Pharmaceutical Machinery

Plot No. 3713, Phase-IV, G.I.D.C. Vatva, Ahmedabad - 382 445. (Gujarat) INDIA.
 Tel. : +91-79-29095204, Fax : +91-79-25841623, Mobile : +91 9825044789, 9375044789,
 E-mail : mkt@prismpharmamachinery.com, sales@prismpharmamachinery.com
 Website : www.prismpharmamachinery.com, www.labmachinery.com