ENZULE



Automatic Capsule Filling Machine



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ENSULE is o Fully Automatic Capsule Filling machine to fill powder in the form of slug in hard gelatin capsules. These *ate* high speed, high performance machines that incorporates 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+pelletsH-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

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 Turrei 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,

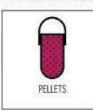
Fully Enclosed Tamping Type Powder Filling Assembly

Powderfrom hopper is fed, and its level is maintained, in to the tub of 'Tamping Assembly' by on automated auger. The 'Tamping Assembly' consists of six sets of reciprocating tamping pins and 0 rotary indexed dozing disc. First five sets of tamping pins progressively compress powder in the cavities of doling disc to form slugs. The sixth set inserts these slugs in to capsule body. Fully enclosed construction ensures minimum wastage.



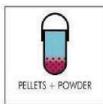
Filling Possibilities & Combinations











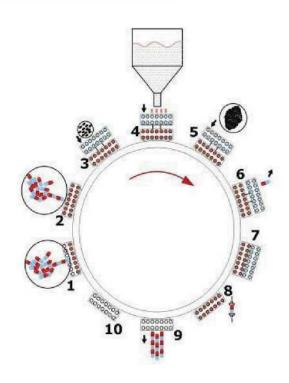


Position Wise Functional Sequence

- 1 Empty Capsule loading and separation
- 2 Empty Capsule loading ond 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

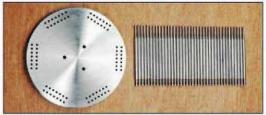
Features

- · 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
- Dozing System! Tamping (slug formation through progressive compression)
- Quick & easy fill weight adjustment
- Tamping System for powders ensures accurate and betterfill weight
- Fil! weight accuracy of ± 2%
- Powder sensor maintains constant level of powder in the dosing chamber
- · Audio alert on capsules running, tow in hopper
- Variable speed AC drive for main motor ensures speed adjustment



Change Parts

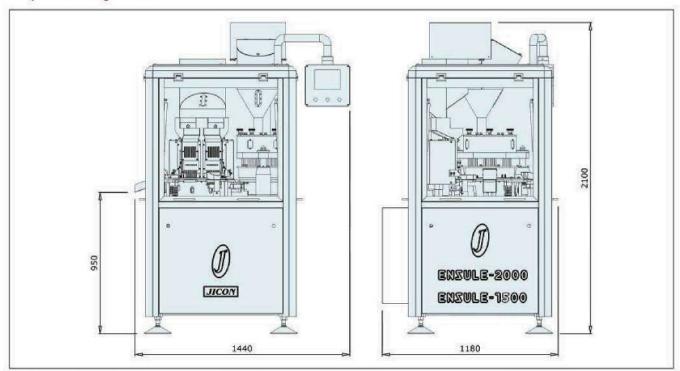




Technical Specifications

Model	scorns-^®	SG3SEHkS3-11@®®	SC»lk[I-§®®©
Rated Output (powder)	45,000 per hour	90,000 per hour	120,000 per kmr
Rated CVpu! (pellets)	35,000 per houj-	70,OW per hew	95,000 f*f to
Elecilicol Connection	415 V, 3 Ph AC + N + Earth (other voHogs on request)		
Power Consumption (ifldusi^e of dfive, vacuum pump & ADU)	6.5 lew	8 kw	8 kw
Com pressed Air Requirement	200 LPM @ 4 bat pressure		
Overall Dimension!	850x 1000«2}00 (H)	1 ISOx 1440*2100 (H)	1180x1440x2100 (hi)
Net Weight	lOOOkg	1 400 kg	1450 kg

Layout Diagram



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 halHilled Capsules.

Technical Specifications

Capacity uptor 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 form capsule filling machine in separate room.

Technical Specifications

Flow: 2800LPM	Motor: 3.0 kw
Dimensions :850x550xl 250mm	Weight: 1 20 kg



Innovation end improvisation is <j constant process oi Jicoi and thus features and specifications ore subject to change without notice.

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