

SED-420J-I Automatic Pill Industrial Capsule Filling Machine With Intermittent Operation



Our capsule-filling machine is used to encapsulate product (powder, and pellets) in gelatin capsules. Empty capsules are loaded into the capsule hopper where they are fed into the magazine. Capsules initially enter the magazine un-oriented. From the magazine, the capsules enter the sorting block where they are properly oriented (smaller end on the bottom). The capsules are then separated by vacuum. The lower portion of the capsule is filled. The upper portion of the capsule is inspected to ensure the capsule is separated. (If the capsule is not separated or is faulty, a pin will dislodge the capsule and the vacuum will remove it from the system.) The two halves are then joined together. The finished capsule is discharged to a chute and the station is cleaned with an air blast.

The capsule filler can use all makes of capsules (00#~5# and safety capsule A~E). Non-separated or improperly inserted capsules will be automatically rejected. Capsule target fill weight can be adjusted by changing dosing disks. At the end of a run, only a small quantity of product will be remaining in the hopper.

Features:

- Machine supplied with HMI, PLC controller. Ready to connect with automatic management computer network.
- Online monitoring of running state, failure diagnosis display.
- Empty capsule feeding alarm, auto stop on powder feeding. Guarantee average dosage.
- Totally enclosed frame rotary table prevents contamination, and is easy to clean.
- Filling structure especially designed for easy cleaning.
- High quality components of driving system provide high precision.

- Powder homogenizer (Chinese patent) inside powder chamber, ensures even distribution of filling powder, even with bad flowing powder.
- Filling structure is easily raised, (Chinese patent) which allows for easy cleaning.
- Double-sided grooved cam (Chinese Patent), guarantees steady filling and is much longer lasting.
- OPTIONAL Machine can be built to comply with European Community directives in terms of safety (CE marking) i.e.:
 - Directive Machine 98/37/EC
 - Low Voltage Directive 73/23/EEC as amended by 93/68/EEC

Main Parameter

Model	SED-420J-I E
Machine weight	800kg
Overall dimension	810 ×945× (1930+150) mm
Motor power	1.92kw + 2.2kw (Dust Collector)
Power supply	3 phase, AC 380V, 50Hz
Max. Output	25,200caps/hr
Number of holes	3 hole
Capsule size	00#~5# and safety capsule A~E
Capsule using rate	≥ 99.5%
Noise index	≤ 75dBA
Dosage difference	≤ ±3% (under more than 300mg dosing and 40~80 mesh after granulation)
Water supply	Water cycle pump compound water tank, or meet water source
Vacuum degree	-0.02~-0.06MPa
compressed air	air consumption 3m ³ /h pressure 0.3~0.4Mpa
(for cleaning station)	
Water volume	250L/hour
Enter pipe inner-diameter	20mm
Waterspout inner-diameter	27mm
Working temperature	21°C ± 3°C
Working relative humidity	40~55%
Exhaust capacity	270m ³ /h
Special function	Pellets, powder mixed; powder collected recycle
Control system	Stepless frequency conversion control, PLC control, touch-screen tablet computer, be provide with OPC Server, Industrial Ethernet Interface be connected with OPC Client, be realized with FDA CFR211 e-signature and e-recording.
Material	Spare part contact with medicine adopt superior S.S 304 & GMP compliable material
Criterion	Comply to CGMP & FDA