

Automatic Servo Dry Powder Filling Machine



Automatic Servo Dry Powder Filling Machine Offers Range Of Advantages Over Conventional Dry Powder Filling Machine In Terms Of Ease Of Operation, Multi Dosing Without Any Mechanical Assembly. It Eases Machine Operators Work & In Result Improve Production Of Powder Line Significantly

Salient Features

Automatic Servo Dry Powder Filling Machine is equipped with following outstanding features.

- CGMP Model.
- “NO VIAL, NO FILL” System eliminates wastage of costly powder.
- Machine has Inbuilt PLC and HMI to govern various interlock.
- Imported Gear box and Gear motor for Machine
- Servo motor with Driver for automated multi dosing facility.
- Spring loaded Teflon top seal for powder hopper reduces the friction between and top seal and avoid chance of white particle shading during production.
- Doctor blade and wiper blade can be adjusted from outside also without disturbing any production, which saves lot of time, powder wastage and chances of area condition disturbance.
- Digital Pressure switch and Vacuum switch to check value of pressure and Vacuum constantly
- All assemblies under top plate are positioned as for easy cleaning or maintenance.
- Machine is provided with delrin conveyor belt to avoid sticking of vial on conveyor.
- Special clutch devices are provided on vial separator for safety purpose.

Machine Working

- Automatic Servo Dry Powder Filling Machine is having vari-speed Delrin Conveyor with optional Turn Table at in-feed & out-feed.
- When the machine starts Vials are feed from Turn Table. Product wheel will separate the vials, Powder is comes from the Hopper, Suck by Filling wheel & then fill in to vial by piston assembly fitted in Filling Wheel.

Technical Specifications

Filling Speed	100 Vials/minute based on 5-10ml vial (Depending up on size/types of vial & powder density)
Design	Left --> Right
Powder Fill Size	50 mg to 1.5 grams. Single Dose (with Change Parts) 1.5 grams to 6 grams. Double, Triple and Four Doses. Fill range depending upon vial opening and bulk density of powder. Under controlled level of Humidity (i.e. 25%)
Fill Accuracy	±1% depending upon consistency and uniformity of bulk density of injectable powder
Product Conveyor	50 mm (2") wide Delrin conveyor
Powder Suction	Through Vacuum
Powder Delivered	Through Air/Nitrogen (Customer to Provide)
Vial Diameter	25 mm to 45 mm max
Vial Height	75 mm Maximum