



## ***Automatic Double Head Auger Type Powder Filling Machine*** **SBAF-D-100**



SBAF-D-100 Automatic Double Head Auger Type Dry Syrup Powder Filling Machine is a compact model used for filling Dry Syrup Powder in bottles.

### **Operation :**

The incoming dry bottle (sterilized and siliconised) are fed through the infeed Turn Table with suitably guided on the moving delrin flat conveyor belt at the required speed for feeding. There are two separate filling head mounted on machine top plate in the same line. When bottle reaches to the first filling station, it will be held by the pneumatic bottle holder. Immediately it will be sensed by the bottle sensor as soon as it gets signals from sensor from magnetic clutch starts to rotate which is mounted on auger shaft. It will fill the desired amount of powder to the bottle through auger, where rotation time is previously saved in PLC control. After filling of first bottle pneumatic piston goes back and release the first bottle to move on conveyor, By the same time second bottle also moves along with the first bottle in empty condition. In second filling head same operation will be performed but this time second bottle get filled and first bottle moves further for next operation. The main advantage of this machine is Pneumatic bottle holding system is directly connected with Auger rotation, so till bottle get filled with powder as per set value pneumatic system will not going to release the bottle.

### **Salient Features :**

- Total Compact cGMP model.
- All parts and assemblies coming in contact with powder are made of S.S.316
- "NO BOTTLE, NO FILL" System eliminates wastage of costly powder.
- Conveyor driving is through High quality imported Gear motor.

- Machine speed can be adjusted by A.C. Frequency drive, which is time saving.
- Machine is provided with delrin conveyor belt to avoid sticking of vial on conveyor.
- Single track bottle movement, reduces setting of supporting guide rails and semi skilled person can also easily operate the machine.
- Pneumatic bottle holding system is connected with auger rotation, which eliminates chances of bottle transfer before completion of filling operation.
- Total PLC control for the machine.
- No change parts are required for any change in bottle diameter from 30 to 120 ml.

**Utilities :(To be Provided by Buyer) :**

Pneumatic Air	Filtered, oil free, sterile low pressure AIR at 6 kg/cm <sup>2</sup>
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**Basic Machine :**

- Imported Gear Motor for Conveyor drive.
- A.C. Frequency drive for Conveyor drive.
- "No Bottle, No Filling" System.
- PLC control for machine.
- Pneumatic bottle holding system.

**Technical Specification of Double Head Auger Type Powder Filling Machine**

<b>Model</b>	<b>SBAF-D-100</b>
Direction	Left To Right
Production Rate.	Up to 60 to 80 Bottles / Min.
Fill Capacity	10 grms to 50 grms. (with different set of Auger and funnel) Fill range depending upon Bottle opening and bulk density of powder.
Accuracy	± 2% depending upon consistency and the Uniformity of bulk density of powder Under controlled level of Humidity (i.e. 35%)
No. of Hads	Two
Electrical Supply	2.00 HP For Main Drive
	0.25 HP For Conveyor.
Power Requirement	440 Volts, 3 Phase (4 wire System) 50 Hz.
Height of Conveyor	Adjustable from 850 to 900 MM
Dimensions	2200 MM (L) x 1102 MM (W) x 1817 MM (H)
Net Wight	550 KGS. (Approx.)
Gross Weight	800 KGS. (Approx.)

**Input Specifications :**

Bottle Conveyor	25 mm To 70 mm MAX.
Height	55 mm To 110 mm.

*Note: (1) Right of technical improvements & modifications reserved.  
(2) All illustrations and dimensions are shown for information only.*