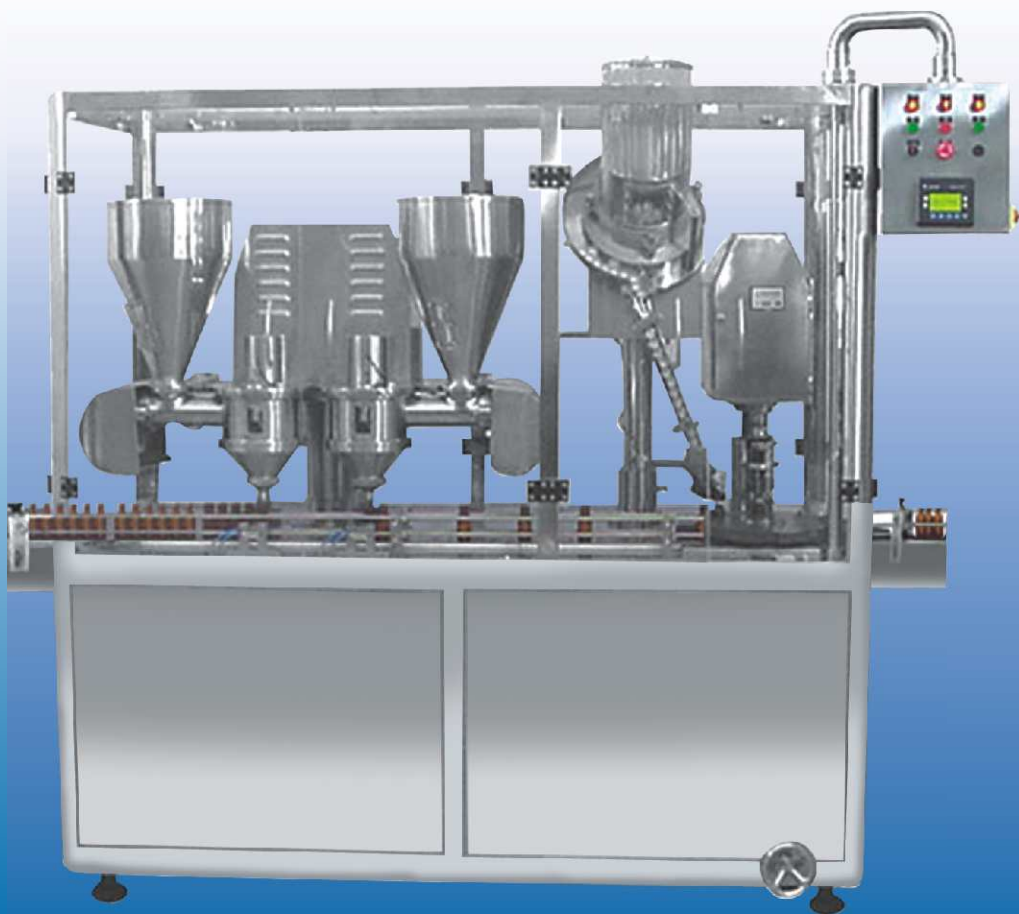




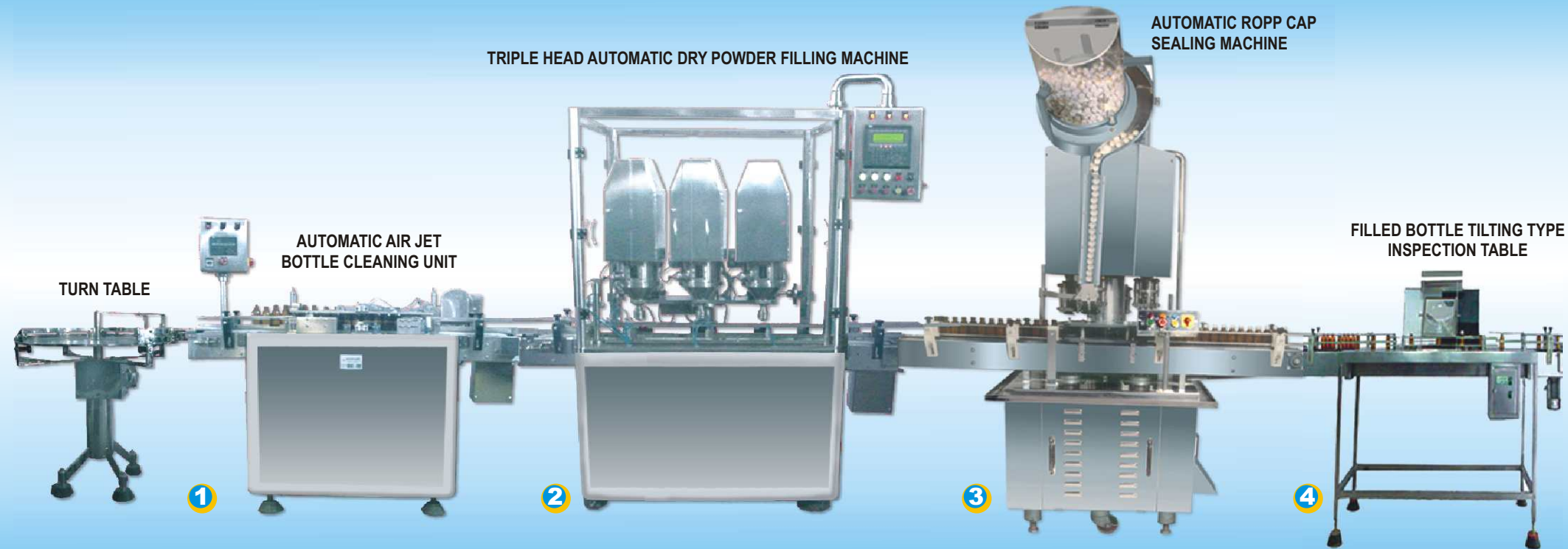
# **AUTOMATIC DRY POWDER FILLING LINE**

## **FULLY AUTOMATIC DRY POWDER FILLING, ROPP CAPPING AND SEALING MACHINES**



**ANCHOR MARK**  
PRIVATE LIMITED

# Automatic Dry Powder Filling & Cap Sealing Line



## 1 Automatic Air Jet Bottle Cleaning Machine

Empty bottles from the turn table are conveyed to the slat conveyor and are picked up by the cassette which is designed as per the size of the bottle and output required. The cassette transfers the bottles in the cleaning zone in inverted position. The cleaning zone consists of nozzles for spraying filtered air and vacuum suction attachment. As soon as the bottles are transferred to the cleaning zone the solenoid valve actuates and compressed filtered air is sprayed inside the bottle and vacuum sucks the foreign particle if any from the empty bottles. After cleaning, the inverted bottles are reset to the normal position and discharged through the conveyor to the filling machine for onward filling.

<b>Connected Load</b>	2.25 HP / 440 volts / 3 Phase / 50 cycles
<b>Utility Requirement</b>	Compressed Air 700 LPM / 25 CFM at 2 kg / cm <sup>2</sup>
<b>Vacuum Blower</b>	2 HP, 110 mm of Hg, 165 CFM
<b>Overall Dimensions</b>	1750 mm x 765 mm x 970 mm (L) (W) (H)
<b>Net Weight</b>	450 kgs

## 2 Automatic Dry Powder Filling Machine

The machine is compact and conforms to the GMP requirements. All contact parts are made of SS 316 quality and non-contact parts are made of SS 304 quality and duly polished. The process ensures contamination and free filling. The design of the machine is such that it enables easy change over of parts and easy cleaning.

### Salient Features

- Auger type filling.
- Instant brake mechanism for precise fill weight.
- Preset revolution control with digital display for quick setting of fill weight.
- Weight variation within  $\pm 2\%$ .
- Automatic powder level maintaining system for maintaining constant level of powder to facilitate minimum weight variation.
- No Bottle, no fill arrangement avoids spillage of powder.
- The production counter facilitates estimation of the exact production at the end of the shift/day.
- The control panel of the machine is equipped with Programmable Logic Control (PLC) system enabling visual display of the operating parameters besides ensuring accuracy, reliability and reduced operator fatigue.
- To maintain optimum output, the interchangeable parts in following weight combinations are supplied as per the customer's requirement –

3gms - 5 gms	5gms - 15gms	15gms - 30gms
30gms - 50gms	50gms - 75gms	75gms - 100gms

## 3 Automatic ROPP Cap Sealing Machine

Automatic Multi Head ROPP Cap Sealing Machine is ideally suited for continuous heavy duty operations. This machine is fully automatic and is complete with Rotary Cap Feeding Hopper and built-in Slat Conveyor.

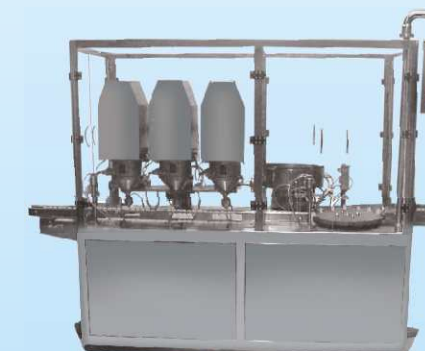
The bottles are fed in a vertical position. As soon as the bottle strikes the end chute, a cap from the shoe of the automatic cap feeder is placed on the bottle and passed to the sealing head for sealing. The sealing head seals the bottles and later conveys them to the Slat Conveyor for onward transfer to the inspection machine.

The guide rails and stainless steel Slat Conveyor can be adjusted to accommodate various shapes and diameter of bottles. A limit switch with actuator mechanism is provided for sensing bottle topple. The machine is provided with variable speed mechanism for speed adjustment. The machine is manufactured as per GMP standards.

### Single Head Dry Powder Filling, ROPP Capping & Sealing Machine



### Triple Head Dry Powder Filling Machine with inner plug placing vibratory feeder and pressing through Pneumatic System.



## 4 Filled Bottle Tilting Type Inspection Table

The filled bottles are conveyed to the slat conveyor of the inspection unit. The bottles pass through the inspection unit in a tilted position and rotate through a specially designed conveyor track. The inspection unit is provided with magnifying glass and a lighting arrangement. Since the bottles are rotating in a tilted position, the operator can easily identify any foreign particles, cap rejections and cracking of bottles. The rejected bottles are picked up and kept in a separate rejection tray provided at the side of the inspection table.

<b>Connected Load</b>	0.5 HP ( Conveyor Motor )
<b>Overall Dimensions</b>	2075 mm x 770 mm x 1255 mm (L) (W) (H)
<b>Net Weight</b>	150 Kgs

	SINGLE HEAD	TWIN HEAD	TRIPLE HEAD	TRIPLE HEAD - with inner Plug placing
<b>Output</b>	15 to 30 Bottles per minute*	30 to 50 Bottles per minute*	45 to 75 Bottles per minute*	45 to 75 Bottles per minute*
<b>Connected Load</b>	2.50 HP / 440 Volts / 3 Phase / 50 Cycles	2.50 HP / 440 Volts / 3 Phase / 50 Cycles	2.5 HP / 440 Volts / 3 Phase / 50 Cycles	2.7 HP / 440 Volts / 3 Phase / 50 Cycles
<b>Utility Requirement</b>	Compressed Air 700 LPM / 25 CFM at 2 kg / cm <sup>2</sup>	Compressed Air 700 LPM / 25 CFM at 2 kg / cm <sup>2</sup>	Compressed Air 700 LPM / 25 CFM at 2 kg / cm <sup>2</sup>	Compressed Air 700 LPM / 25 CFM at 2 kg / cm <sup>2</sup>
<b>Vacuum Blower</b>	1 HP, 100 mm of Hg, 120 CFM	1 HP, 100 mm of Hg, 120 CFM	1 HP, 100 mm of Hg, 120 CFM	1 HP, 100 mm of Hg, 120 CFM
<b>Overall Dimensions</b>	1975 mm x 930 mm x 2250 mm (L) (W) (H)	2465 mm x 860 mm x 2250 mm (L) (W) (H)	1850 mm x 870 mm x 2250 mm (L) (W) (H)	2730 mm x 870 mm x 2250 mm (L) (W) (H)
<b>Net Weight</b>	1000 kgs	1100 kgs	1250 kgs	1300 kgs

\* The output depends on fill weight, characteristic of powder, bottle / container's neck diameter and ambient temperature condition.

## SEMI AUTOMATIC DRY POWDER FILLING MACHINE



This machine is ideal for dry powder and external dry syrup filling. The design is unique and extremely functional. The machine is simple to operate, readily moveable and occupies minimal space. This machine gives optimum production with minimum weight variation.

### SALIENT FEATURES

- Auger Type Filling
- Preset revolution control with digital display for quick setting of fill weight.
- Instant Brake mechanism for precise fill weight.
- Automatic powder level maintaining system for maintaining constant level of powder to facilitate minimum weight variation.
- Weight variation within  $\pm 2\%$
- All powder contact parts are made of stainless steel 304 or 316 quality.
- Quick interchangeability in minutes for changeover of product.
- Control Panel supplied with PLC System and MMI with display of operating parameters
- To maintain optimum output, the interchangeable parts in following weight combinations are supplied as per the customer's requirement.

3 gms - 5 gms	5 gms - 15 gms	15 gms - 30 gms
30 gms - 50 gms	50 gms - 75 gms	75 gms - 100 gm

<b>Connected Load</b>	1 HP / 440 volts / 3 Phase / 50 cycles
<b>Utility Requirement</b>	Compressed Air 700 LPM / 25 CFM at 2 Kg / cm <sup>2</sup>
<b>Vacuum Blower</b>	1HP, 100 mm of Hg, 120 CFM
<b>Overall Dimensions</b>	920 mm x 625 mm x 1100 mm ( L ) ( W ) ( H )
<b>Net Weight</b>	100 Kgs

## SEMI AUTOMATIC ROPP CAP SEALING MACHINE



The Semi Automatic sealing machine works on cam mechanism. The ROPP cap is manually placed on the filled bottle and operator places the filled bottle with cap, below the sealing head. The sealing head comes down and seals the bottles and moves upward after the sealing. The speed can be adjusted through a mechanical variable speed pulley for achieving the required output depending on types of the bottles and the operator's skill

Output : 30 to 50 bottles depending upon the size of the bottles and the operator's skill.

<b>Connected Load</b>	1 HP/ 440 volts / 3 Phase / 50 cycles
<b>Overall Dimensions</b>	660 mm x 600 mm x 1750 mm ( L ) ( W ) ( H )
<b>Net Weight</b>	340 Kgs

## SEMI AUTOMATIC EMPTY BOTTLE CLEANING MACHINE WITH COMPRESSED AIR & VACUUM



The semi automatic cleaning machine works on compressed air and vacuum suction. The bottles are placed in inverted position manually on the nozzle. As soon as the bottle is placed, the solenoid valve actuates and filtered compressed air is sprayed inside the bottle and vacuum sucks the foreign particle if any. After cleaning, the bottles are transferred manually to the filling machine.

Output : 20 to 40 bottles per minute depending upon the size of bottles and operator's skill.

<b>Connected Load</b>	1 HP / 440 volts / 3 Phase / 50 cycles
<b>Utility Requirement</b>	Compressed air 700 LPM / 25 CFM at 2 Kg / cm <sup>2</sup>
<b>Vacuum Blower</b>	1 HP, 100 mm of Hg, 120 CFM
<b>Overall Dimensions</b>	920 mm x 675 mm x 880 mm ( L ) ( W ) ( H )
<b>Net Weight</b>	100 Kgs

**MACHINES CAN BE SUPPLIED FOR 380 VOLTS 3 PHASE 50 Hz OR 220 VOLTS 3 PHASE 60 Hz AS PER CUSTOMER'S REQUIREMENTS**

*Anchor Mark Private Limited offer comprehensive technical consultancy advisory assistance in all genuinely interested parties. Personnel training and follow-up service are promptly provided as sales back-up.*

As the design and manufacture of ANCHOR MARK PRIVATE LIMITED machines are subject to improvement, the product supplied may differ in some details from the specifications and illustrations given.



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