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30-BPM Automatic Rinsing, Filling & Capping Machine with Inspection and SS Heat Shrink Tunnel – 6.6.3 (30) For Mineral Water

OPERATING CYCLE

INFEED AIR CONVEYOR

The empty bottles are loaded manually OR automatically from blow moulding machine feed air conveyor where air at high pressure from a blower is used for conveying bottles supported at the neck up to the in feed bottle transfer rotor. The air conveyor permits different bottle sizes to run without making any adjustments.



INFEED BOTTLE TRANSFER ROTOR

The bottles are transferred to rinse rotor by the indeed bottle transfer rotor. Bottles are held at the neck during transfer.



GSTIN 24AAECR3013M1ZJ

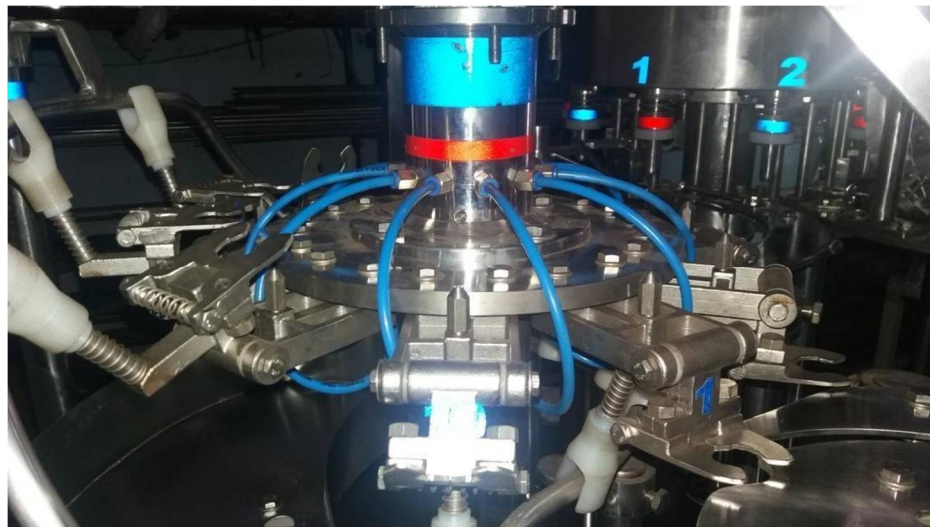
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RINSE ROTOR

The automatic rinse rotor has rinsing jet & catcher which picks up bottles one by one from the in feed transfer rotor. The bottle is inverted against a lever on the rinse valve to start the rinsing operation. Bottles are washed for up to three seconds each, before draining (for removal of residual water) and up righting for transfer to the filling rotor. The rinsing medium is generally product water.



FILLING ROTOR

The internationally accepted and approved VENT PIPE filling principle ensures accurate level filling without spillage. The filling accuracy is ± 5 ml. The fill tank level is regulated automatically by a PLC controlled electronic probe.



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After completion of the filling operation, bottles are transferred to the capping rotor by the out cap picking rotor, the bottles necks are picking up caps. With NO BOTTLE NO CAP arrangement is there.





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FILLING CAPACITY

Bottle Volume	BPM	BPH
200-ML	35	2100
500-ML	35	2100
1000-ML	30	1800
2000-ML	12	720

ELECTRICK POWER REQUIREMENT

Sr. No.	Description	Quantity	Power in HP
1	Main Machine Motor	1	1
2	Air Conveyor Motor	1	0.50
3	Out Conveyor Motor	1	0.25
4	Shrink Tunnel	1	5.00
	Total		6.75

SPECIAL FEATURE OF MACHINE

1) MACHINE SAFETY AND MAINTAINANCE

- No need Lubricate
- Cap Hopper Elevator type & having capacity of 1500 caps at a time
- Cap Hopper Vibrator type & having capacity of 700 caps at a time

2) PRODUCT SAFETY AND HYGINE

- In feed air blower conveyor SS 304 **Hepa Filter**
- Bottle Catching & all-star wheels below the neck only
- Rinsing Water pressure Interlock
- Filling Water Tank low & High Level Inter lock
- Gravity Type Bottle Filling System



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3) MANUFACTURING SETUP

- All Machine parts With CNC Made
- All material of construction SS 304
- Contact parts SS 304
- Out Conveyor SS 304 , conveyor belt also SS 304 With separate Drive

Technical Specification & Make

- | | | |
|-----------------------------|----|---------------------------|
| ➤ Main Motor 1-HP | :- | Rotomotive |
| ➤ Cap Feeder 0.25-HP | :- | Rotomotive |
| ➤ Conveyor Motor 0.25-HP | :- | Rotomotive |
| ➤ Drive | :- | Delta |
| ➤ Material of Constructions | :- | SS-304 (Use 316 in Extra) |
| ➤ Head | :- | 6 – 6 - 3 |

Technical Detail: -

- 1) Main Drive
 - a) Motor 1 H.P. 1440RPM. - 440VAC.
- 2) Cap Hopper
 - a) Gerard Motor 0.25 H.P. (0.33 k.w.) 1440RPM – 440VAC
 - b) Hopper Capacity 1000 Caps At a time
 - c) Material of contraction SS304
 - d) SS 304 Quality belt ¾" Size
 - e) Size L = 3 feet x W = 3 feet x H = 7.5 Feet
 - f) Weight = 200 kg Approx.
- 3) Gravity Filling System
- 4) MS Powder Coating Shrink Tunnel 4KW (440VAC).

4) Conveyor 5 feet (Air Conveyor) and 15 feet (Slat Conveyor)

- a) Geared Motor 0.50 HP
- b) Material of construction SS304
- c) Adjustable legs for different size of bottle up to 300mm

5) Machine size in feet

- a) Only Machine: - L = 5' x W = 5' x H = 5'