

Automatic Single Head Plastic Screw Caps Sealing Machines - Indexer Based



(Photograph is for the reference purpose only. Machine Construction & Specification are subject to change without prior Notice due to Continues up-gradation Process)

Specification of the Equipment

Machine's Basics:

Machine Name	Automatic Single Head Plastic Screw Caps Sealing Machines - Indexer Based
Production Speed Per Hour	1800 to 2400 Bottles per Hour (Speed Depends up on the size of caps & bottles).
Capping Unit	Magnetic Screw Capping Head with Torque Adjustment
Caps Feeding	Vibratory Bowl Feeder
Machine Motion	Rotary Motion - Index Based
Suitable for Products	PET / Glass/Aluminium/ HDPE Bottles ranging from 20 ml to 1000 ml
Application	To Tight & Seal the Caps on Bottles
Production Efficiency	95%
Rejection Ratio During Production	1%
Speed Synchronization of Star Wheel & Capping Head	Individual VFD
Bottle Gripping	Pneumatic System
Cap Pressing / Hammering	Pneumatic System
Working Height	850 mm +/- 50 mm
Conveyor Length	5 Feet to 6 Feet Depending upon the product
Machine Weight	Approx 250 Kgs
Machine Dimension	Approx 5 (L) x 4 (W) x 7 (H) – in Feet
Change Parts	Required in case of change in Cap Size & Bottle Size

Machine's Material of Construction

Machine Main Base Frame	M.S. Powder Coated or Colored
Machine Coverings	Complete in S.S. 304
Product Contact Parts	S.S. 304
Non Contact Parts	S.S / M.S / Aluminium / Teflon (Whichever is applicable)
Conveyor Slat	S.S. 304 Slat with Nylon Strips on Side
Conveyor Shafts	M.S with Hard Chrome or Zinc Plating
Conveyor Sprockets	M.S or Nylon
Bearings	SKF / NTN
Plating(Wherever Applicable)	ENP / Zinc / Hard Chrome / Blackening
Capping Unit	S.S.304
Vibratory Bowl Feeder	M.S Cladded in S.S 304
Vibrator Stand	M.S with ENP Plating
Shute	S.S. 304
Star Wheel with Back Guide	12 mm thick UHMW / Nylon
Guide Brackets	Moldex Make – Plastic
Guide Rod & Pin	S.S. 304
Capping Head Pillar	M.S with ENP / Hard Chrome

Machine's Electronics & Pneumatics Components

Indexer	Orbital
Conveyor Motor Make	0.5 H.P Hindustan / Remi / Bonfiglioli / Bonvario
Conveyor Gear Box Make	Hindustan / Remi / Bonfiglioli / Bonvario
Conveyor VFD Make	0.5 H.P Delta
Capping Head Motor Make	1 H.P Hindustan / Remi / Bonfiglioli / Bonvario
Capping Head Gear Box Make	Hindustan / Remi / Bonfiglioli / Bonvario
Capping Head VFD Make	1 H.P Delta
Sensors	Photo Electric Sensors – SICK Make
Electrical Wiring	Ferule Numbering on all the wires with Proper Markings
Electrical Components	ABB / L&T / Siemens Make
Pneumatics	FESTO / JANATICS
Control Panel	Standard Push Button Control Panel
PLC (Optional)	Unitronics

Machine's Power & Air Consumption Requirement

Power Consumption	1.5 H.P / 230 V.AC
Phase	Single Phase
Compressed Air Required	2 H.P Compressor

Machine's Servicing & Maintenance

Maintenance of Machine	Weekly Oiling & Greasing is Required for smooth functioning of Machine
Machine Cleaning	Advisable to clean machine regularly for smooth functioning of Machine

Optional Accessories (If Required by Customer at Extra Cost)

1. PLC + HMI
2. Flame Proof Control Panel & Motor for Flammable Product
3. Polycarbonate Enclosure with Aluminium Profile.

Machine's Utility Requirement (Customer need to Arrange)

1. Air Compressor for Compressed Air (If Required)
2. Voltage Stabilizer to control power fluctuation
3. Main Electrical Power Input till Machine
4. Well Trained Operator for Operating the Machine
5. Un-Skilled Helper to help the Operator.