

Rotary Capping machine

Rotary Capping machine with cap Sorting unit & Hopper

Widder Industrial group's packaging / Bottled up machinery is the result of practical experiences following of unique, specific & special rolls and industrial standards and also using of non-stop R&D policy in manufacturing of updated, tough & high performance machinery.

Widder Ind'l. Group Rotary Capping machine consists of 4/6/8 or 12 stainless steel capping heads which are equipped with Magnetic clutch and has been mounted at the end of the moving arms. All of them have been installed around a rotary unit. All above equipment has been mounted on a heavy duty chassis, synchronously working together providing output from 4000-18000 / bph.

Main Features:

- The conveyor chain moves filled bottles smoothly to the timing screw and then to inlet star and gets deliver caped bottles from outlet star of capping machine under polling pressure of its driving system. Conveyor's chain width defers with bottles diameter from 80mm up to 190mm.

- Caps feed by Hopper conveyor from ground reservoir to the cap Centrifugal sorting unit to be sorted in same direction and feed to the cap shooting rail transferring to the cap applicator.

- Referring to the machine model, 4/6/8 or 12 stainless steel capping heads which have been installed around a rotary unit ,in each cycling period of rotating set on top of caps which have been put on bottles mouths and turned around fastening plastic caps as per their pre adjusted torch .

- Adjusting of machine for deferent heights of bottles could be done easily by turning a handle which has been installed inside of the machine basement cabinet.

- Adjustment of fastening torch of capping heads could be done easily and precisely by turning the Screw body of each capping head.

- The bottle handling system Consists a Timing Screw, two inlet & outlet stars and related guiding parts which can be changed by appropriate size part so easily.

The machine driving system is a combination of appropriate 3-phase electromotor which is equipped directly by a well-chosen reducing unit.

- The electric driving and controlling parts as well as an electronic invertor are mounted inside a box which is installed inside of the basement cabinet.

- All components and parts mentioned above have been installed on a stainless still basement heavy duty cabinet.



Full machine view



Capes Sorting unit with capes shooting rail



Capping heads equipped with Magnetic clutch



Caps Hopper conveyor



Capes Sorting unit with capes shooting rail



Ground Reservoir & Caps Hopper

Technical Descriptions of Widder's Capping Machines

| Description | Rotary | Linear |
|---|-------------------------------------|-------------------------------------|
| Volume of Containers | 150-2500 ml | 150-5000 ml |
| Min & Max Containers height | 35-350 mm | 35-350 mm |
| Container base | Rectangular, circular and oval | Rectangular, circular and oval |
| Nominal Output | 4500-8500 bph- 1.5 Lit | 1600 bph- 1Lit |
| Sensors Type | Reflex / proximity | - |
| Timing System of Bottles | Helical | Pneumatic |
| Power of Three-phase electric engine | 1.5-0.37-0.25 KW | 0.37 KW |
| Electric engines Brand | .Motovario, Siemens, A.B.B | .Motovario, Siemens, A.B.B |
| Reducer Brand | Motovario/ Italy | Motovario/ Italy |
| Electronic inverter | Three-phase inverter/Techo | Three-phase inverter/Techo |
| Interface | LCD. Touch screen | Power |
| Controller | Microcontroller | Logo |
| Power supply | Switching | Switching |
| Main voltage | 380 V AC. 50 Hz. | 380 V AC. 50 Hz. |
| Power consumption | 12 A | 8 A |
| Conveyor & Cabin material | Stainless steel /304 | Stainless steel /304 |
| Conveyor Length | 2500 mm | 2500 mm |
| Conveyor Height | 1100 mm+-100 | 1100 mm+-100 |
| Conveyor chain material | Stainless steel/316 or Acetyl resin | Stainless steel/316 or Acetyl resin |
| Capping system | Rotary 4-6-8 Heads | 1 Head |
| Cap hopper , Auto capper & Sorting system | yes | Non |
| Capping heads method | Magnetic clutch | Magnetic clutch |
| Cap material | Plastic | Plastic |
| Cabin dimensions LxWxH | 247x147x85Cm | 147x100x85Cm |
| Machine weight | 1800 Kg. | 300 Kg. |