

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.