

Widder Tri-Block

The Automatic Non-Carbonated PET Bottling line Main Machine

Widder Industrial group's packaging / Bottled up machinery is the result of practical experience 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.

Tri-block series composed of an automatic rinsing, high performance filler, and precise screw capper all mounted on a heavy duty chassis synchronously working together providing output from 2000-18000/bph and over per order.

Main Features:

- **Rinsing** unit's neck holding bottle grippers keep bottles tightly but no damage during rinsing cycle.

- **Filler** ring bowl, made up of stainless steel,- Filler unit's automatic filling valves which are suitable for non- carbonated/flat liquids in gravity filling.

- **Filler**'s nozzles have designed as easy adjustable liquid level with replacement little O-rings.

- **Filling** valves equipped by lifting fork enabling the bottles to be centrally positioned under filling nozzles.

- **Capper** unit's capping heads are equipped with adjustable magnetic clutch for easy adjusting of fastening the plastic screw caps.

- **Capper** unit is equipped with stainless steel centrifugal caps hopper which mechanically sort and collect the caps with correct orientation.

- **Switch board** cabinet made up of stainless steel provides all electrical and electronically controls in same place.

- **The main drive** supplied by a 3 phase electromotor equipped with heavy duty gearbox and inverter controlling soft start and variable speed.

- The bottle movement has been facilitated with **neck handling** system by star discs and external guides.

- The most interesting advantage of Widder Tri-block is the possibility of bottle size Change over, just with replacement of one component which is last outlet star of capping unit and adjustment of telescopic screw of the inlet conveyor as per bottle's height.

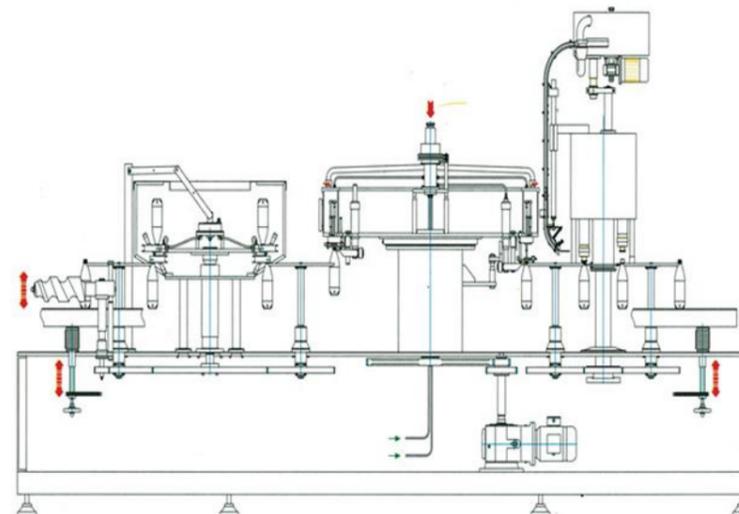
The unique design of this machine has minimized lubrication of all mechanical components need and enables quick access to them for assembling and disassembling easily and quickly.



Tri-block



Tri-block



Tri-block Diagram



Rinsing unit neck holding bottle grippers



Filler's stainless steel ring bowl & Bottle movement neck handling system with star discs and external guides



Automatic filling valves work smoothly but fast



Possibility of different bottle size change over

Technical Descriptions of Widder's Non-Carbonated Rinsing, Filling & Capping Machines

Description	Rotary Tri-block	Rotary Di-block	Linear Mono-block
Volume of Containers	150-1500 ml	150-1500 ml	150-5000 ml
Min & Max Containers height	35-350 mm	35-350 mm	35-350 mm
Container base	Rectangular, circular and oval	Rectangular, circular and oval	Rectangular, circular and oval
Nominal Output	4500 bph- 1.5 Lit	4500 bph- 1.5 Lit	1600 bph- 1Lit
Sensors Type	Reflex / proximity	Reflex / proximity	Reflex / proximity
Timing System of Bottles	yes	yes	yes
Power of servo motor	-	-	66NM
Power of Three-phase electric engine	2.2-0.25 KW	2.2-0.25 KW	0.37 KW
Electric engines Brand	Motowario, Siemens, A.B.B.	Motowario, Siemens, .A.B.B	Motowario, Siemens, .A.B.B
Reducer Brand	Motowario/ Italy	Motowario/ Italy	Motowario/ Italy
Electronic inverter	Three-phase inverter/Techo	Three-phase inverter/Techo	Three-phase inverter/Techo
Interface	LCD. Touch screen	LCD. Touch screen	LCD. Touch screen
Controller	Microcontroller	Microcontroller	Microcontroller
Power supply	Switching	Switching	Switching
Main voltage	380 V AC. 50 Hz.	380 V AC. 50 Hz.	380 V AC. 50 Hz.
Power consumption	15 A	12 A	8 A
Conveyor & Cabin material	Stainless steel /304	Stainless steel /304	Stainless steel /304
Conveyor Length	1500 mm	1500 mm	3000 mm
Conveyor Height	1100 mm+-100	1100 mm+-100	1100 mm+-100
Conveyor chain material	Stainless steel/316 or Acetyl resin	Stainless steel/316 or Acetyl resin	Stainless steel/316 or Acetyl resin
Air Conveyor Length	1500 mm	1500 mm	-
Nozzles movement system	Rotary movement	Rotary movement	Servo motor
Number of nozzles	18-24-32-43-57 or more	18-24	4-6-8
Capping system	Rotary 4-6-8 heads	Rotary 4-6 Heads	N/A
Cap hopper , Auto capper & Sorting system	yes	yes	Non
Capping heads method	Magnetic clutch	Magnetic clutch	Magnetic clutch
Cap material	Plastic	Plastic	-
Cabin dimensions LxWxH	300x247x85Cm	247x147x85Cm	147x100x85Cm
Machine weight	3750 Kg.	3000 Kg.	700 Kg.