

Linear Viscos Liquids Filling Machine

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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 Linear viscose liquids filling machine consists of 4/6 stainless steel pneumatic filling valves which have been mounted on a stainless steel moveable Rig. All parts mentioned above have been installed in side a conveyor. Filling nozzles are installed under the valves. All mounted on a heavy duty chassis synchronously working together providing output from 900-1500/bph.

Main Features:

- The conveyor chain moves empty bottles smoothly to the inlet pneumatic Separator and delivers filled bottles from outlet pneumatic Separator of filling machine under polling pressure of its driving system. Conveyor's chain width defers with bottle's bottom size from 80mm up to 190mm.

- Referring to the machine model, 4 or 6 stainless steel valves have been mounted on a stainless steel Rig. All above components have been installed beside a conveyor which injects filling liquid pumped from tank into the bottles in each cycling period of moveable Rig.

- Adjusting of machine for deferent heights of bottles could be done easily by moving valves mounting block on Rig.

- Adjustment of filling liquid capacity or liquid height inside of bottles could be done easily and precisely by changing the filling time digits on PLC controller of machine.

- The bottle handling system Consists of two inlet & outlet pneumatic separators and related guiding part which can be adjusted with bottle size easily.

The machine driving system is a combination of appropriate 3-phase electromotor which is equipped with a viscos pump unit.

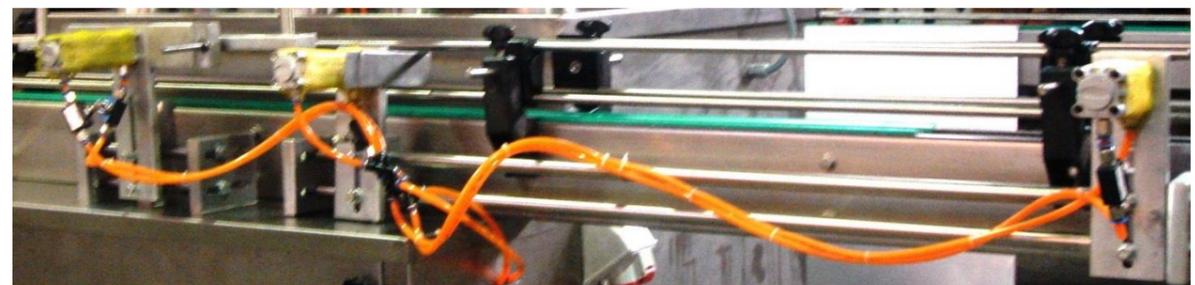
The stainless steel viscos pump which has been mounted on a platform has been installed on chassis by using vibration absorbers. The pump suction moves viscose liquid from tank and delivers it to the pneumatic valves.

- The electric driving and controlling parts as well as a PLC controller and an electronic inverter are mounted inside a control box which is installed on accessible place of machine cabinet.

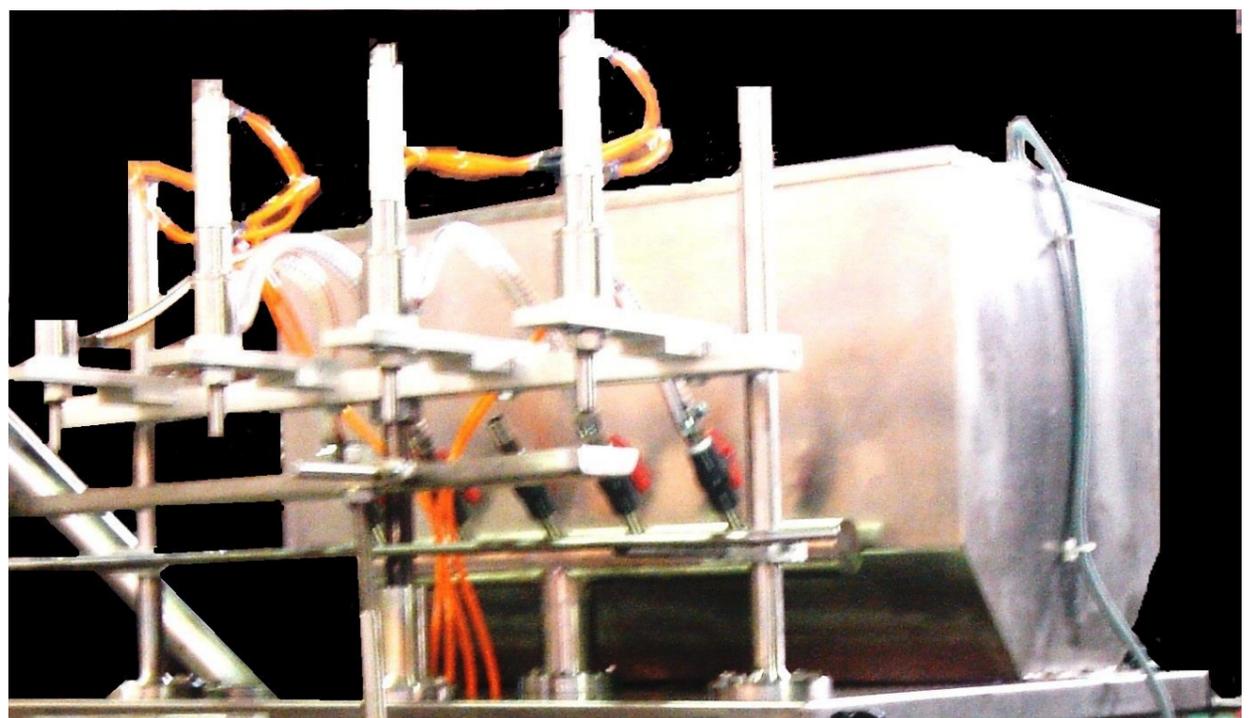
- All components mentioned above and parts have been installed on a stainless steel basement heavy duty cabinet.



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Penumatic Separators of bottle handling system



Liquid tank and valves Rig

Technical Descriptions of Widder's viscose Liquids, Filling & Capping Machines

Description	Rotary Di-block	Linear Mono-block
Volume of Containers	150-1500 ml	150-5000 ml
Min & Max Containers height	50-300 mm	50-350 mm
Container base	Rectangular, circular and oval	Rectangular, circular and oval
Nominal Output	4000 bph- 1.5 Lit	1400 bph- 1Lit
Sensors Type	Reflex / proximity	Reflex / proximity
Timing System of Bottles	yes	yes
Power of servo motor	-	66NM
Power of Three-phase electric engine	2.2-1.8-0.25 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	LCD. Touch screen
Controller	Microcontroller	Microcontroller
Power supply	Switching	Switching
Main voltage	380 V AC. 50 Hz.	380 V AC. 50 Hz.
Power consumption	25 A	8 A
Conveyor & Cabin material	Stainless steel /304	Stainless steel /304
Conveyor Length	3500 mm	3000 mm
Conveyor Height	1100 mm+-100	1100 mm+-100
Conveyor chain material	Stainless steel/316 or Acetyl resin	Stainless steel/316 or Acetyl resin
Nozzles movement system	Rotary movement	Servo motor
Number of nozzles	8	4-6-8
Capping system	Rotary 4 Heads	N/A
Cap hopper , Auto capper & Sorting system	yes	N/A
Capping heads method	Magnetic clutch	N/A
Cap material	Plastic	-
Cabin dimensions LxWxH	260x130x85Cm	147x100x85Cm
Machine weight	3000 Kg.	700 Kg.