

## Shrink Wrap machine

### Secondary packaging machine (Sewing System)

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 Shrink machine consists of one filled bottle sorting system and one shrink plastic feeding/cutting & sewing unit and a tunnel kiln equipped with bottle transferring system within it. All are mounted on a heavy duty chassis synchronously working together providing output from 3000-4500 / bph.

**Main Features:**

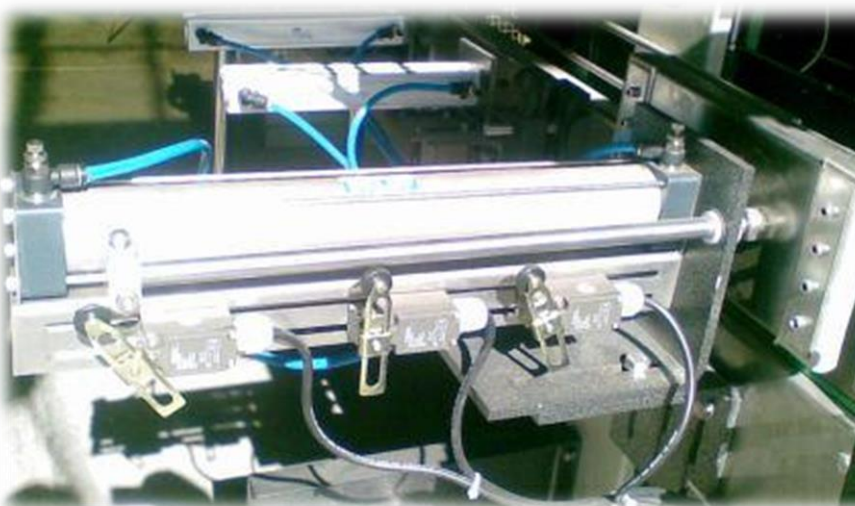
- The 190mm width Conveyor chain moves filled bottles smoothly to the bottle rowed inlet sorting system of shrink machine under polling pressure of its driving system.
- Bottles become sorted as per 2X3 or 3X4 format packages by sorting unit's pneumatic jacks acting and then pushes to the shrink film feeding/cutting & sewing unit by pneumatic feeding jack.
- Packages are wrapped with shrinkable plastic film in the shrink film feeding/cutting & sewing unit.
- The wrapped packages pass the tunnel kiln by its individual conveying system.
- The package's shrinkable film takes its form by heat of kiln.
- The shrinkable film becomes cold and hard when the packages arrive under cooling fans after exiting from kiln keeping fastens the bottles.
- Width of inlet conveyor is 190mm and width of tunnel kiln conveyor is up to 7500mm.
- The shrink plastic feeding/cutting & sewing unit is consisting of Two film rolls feeding systems that have been designed in Motorized and freewheeling duty which will provide shrink film. Also a pneumatic device which is equipped with a special blade for cutting and sewing task is in charge of the wrapping film.
- The tunnel kiln has been made with double walls which has been Heat Isolated with high density rock wool .The kiln has been equipped with stainless steel covered heating elements which have been installed in a cartridge system providing easy maintenance and change over even within production. The kiln tunnel also has been equipped by heat transfer fan on it sucking hot air within the heating cartridge and blowing it to the packages from both sides.
- The machine driving system is a combination of appropriate 3-phase electromotor which is equipped directly with well-chosen reducing units.
- The electric driving and controlling parts as well as an electronic inverter are mounted inside a control box which installed in right side of machine.
- All above mentioned components and parts have been installed on a heavy duty steel body which well-covered by using industrial paint.



Shrink pack machine equipped with bottles sorting system



Shrink pack machine equipped with bottles sorting system



Pneumatic Jack of bottle feeding Arm & Micro-switches



Pneumatic bottles forming system



Bottles stainless still dividers



Plastic Cover roll feeding system



Completed shrink packed package



## Technical Descriptions of Widder's Shrink Machines

Description	Automatic	Semi-Automatic
Volume of Containers	150-2500 ml	150-5000 ml
Min & Max Containers height	150-350 mm	150-350 mm
Container base	Rectangular, circular and oval	Rectangular, circular and oval
Nominal Output	4300 bph- 1.5 Lit	4300 bph- 1Lit
Sensors Type	Reflex / proximity	-
Timing System of Bottles	Pneumatic	-
Power of Three-phase electric engine	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	Analog	Analog
Controller	Microcontroller	Logo
Power supply	Switching	Switching
Main voltage	380 V AC. 50 Hz.	380 V AC. 50 Hz.
Power consumption	15 A	10 A
Heating system	Electrical Element Cartridge	Electrical Element Cartridge
Conveyor	Stainless steel /304	-
Conveyor Length	2500 mm	-
Conveyor Height	1100 mm+-100	-
Conveyor chain material	Stainless steel/316 or Acetyl resin	-
Cabin material	Iron sheet covered by Industrial Paint	Iron sheet covered by Industrial Paint
Swing & Cutting system	Pneumatic / Teflon	Pneumatic / Teflon
Capping heads method	Magnetic clutch	Magnetic clutch
Cabin dimensions LxWxH	300x110x210Cm	300x110x210Cm
Insulation material	Stone Wool 105 gr/cm2	Stone Wool 105 gr/cm2
Cooling system	2 x 0.25KW Fan	2x 0.25KW Fan
Machine weight	1350 Kg.	1250 Kg.