

SWASTIK

ESTABLISHED 1937

75 years of
EXCELLENCE
1937-2012

POLYMERISER BAKING CUM CURING CHAMBER



CPV 85-R

Model CPV



LDP 100

Model LDP

SWASTIK TEXTILE ENGINEERS PVT. LTD.

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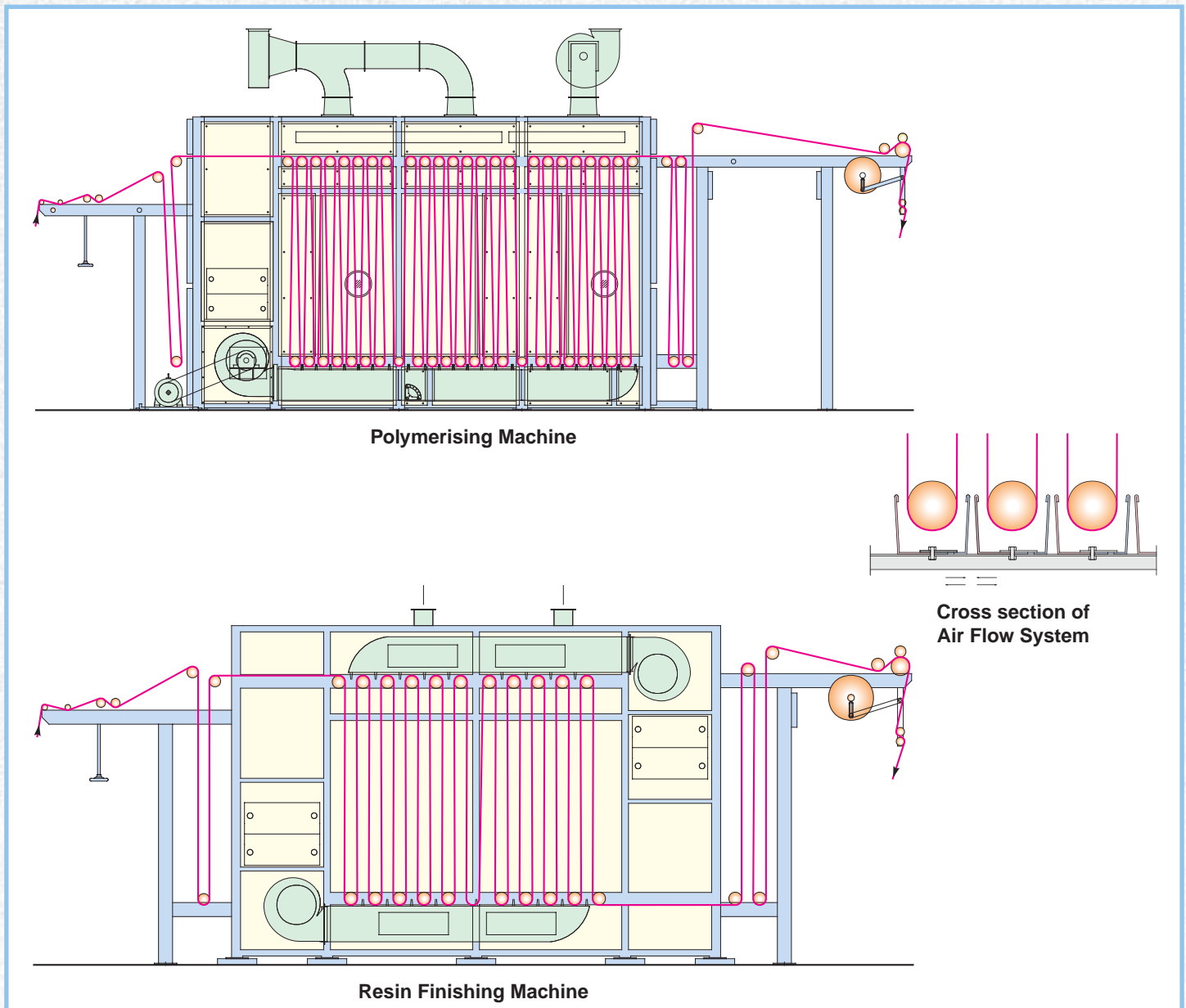
SWASTIK

The experience gathered from a large number of installations made so far has given **SWASTIK** greater expertise in the application of the Polymeriser in Textiles. The Polymeriser or the **Baking cum Curing Machines** are used extensively for fixing prints on all types of fabrics which require hot air fixation of Pigments; resin finishing; fire retardant treatment etc.

SWASTIK manufactures Polymerisers in several different capacities. Cloth content of 85 - 115 - 145 - 160 - 200 metres and roller widths from 1500 mm to 3500 mm. All top guide rollers in the machine are positively driven by chain and chain wheels with necessary idlers to ensure positive and tensionless movement of fabrics. On request, larger machines model CPV 160 & above can be provided with a Belt Drive.

The air distribution in the machine is from the bottom. The air circulation system is formed by well designed adjustable jet openings so as to have even temperature throughout the passage of cloth in the machine. Large sized doors are provided on all sides for quick cooling of the machine and easy maintenance. The machine is well insulated from all sides. For specific requirements, air circulation can be offered from both Top and Bottom with a double set of heat exchangers, Jet Nozzles and Blowers. This is essential for resin finishing application.

Provision is made to ensure that there is no pressure build up in the curing zone and all flue gasses are efficiently removed. Guide Rollers inside the machine are fixed in bearings which are located outside the machine and are easily accessible.



POLYMERISING OR BAKING CUM CURING CHAMBER

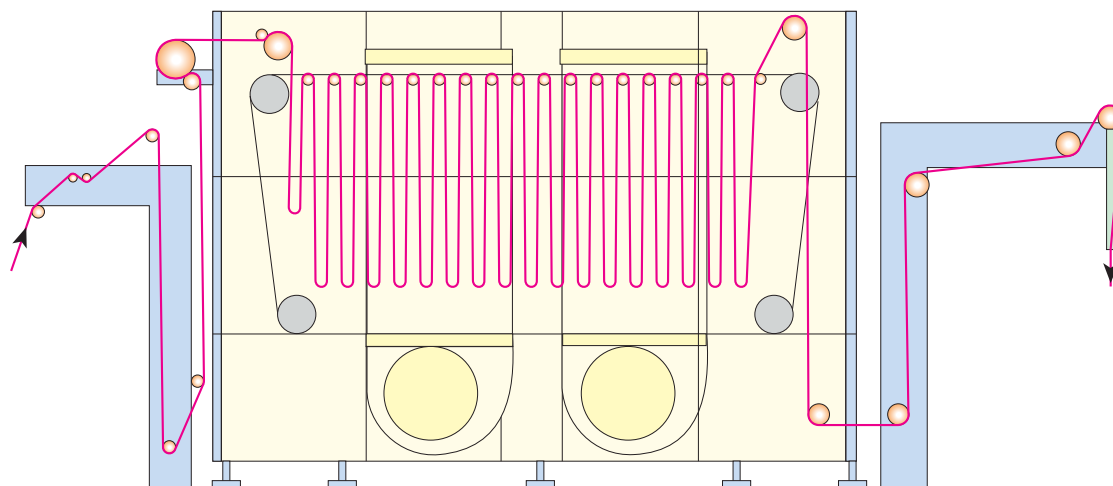
TECHNICAL DATA					
Model	CPV-85	CPV-115	CPV-135	CPV-160	CPV-200
Total Contents	85 mtrs	115 mtrs	135 mtrs	160 mtrs	200 mtrs
Curing Section Contents Incl. Pre Drying	75	105	125	150	195
Cooling Section	10	10	10	10	10
Installed Power	6-10 kW	7.5-11.5 kW	9-11.5 kW	11-15 kW	17.5-20 kW
Max. Temp. (Standard Machine)	180° C	180° C	180° C	180° C	180° C
Max. Temp. (Optional)	200/220° C	200/220° C	200/220° C	200/220° C	200/220° C
Speed Range : Mtrs / Min.	10 to 30	15 to 45	15 to 45	20 to 60	20 to 60
Curing time (minutes)	2.5 to 7	2.5 to 7	2.5 to 8	2.5 to 7.5	3.5 to 10

SWASTIK offers a combination machine - **LOOP DRYER CUM POLYMERISER** for small production requirements. The Machine ensures great economy and energy saving and can be used as a polymeriser with high temperature with lower air circulation and as a dryer with high quantity air circulation.

The high entry device feeds the fabric through a pair of cloth guiders in a creaseless manner onto the Draw-in-nip, placed just at the entry side of the Machine. The machine consists of several sections each 1.5 metre long, a ventilating unit with dynamically balanced blowers and necessary jet Nozzles elements. Blowers are driven by a directly coupled two speed AC motor blowing air from both top and bottom.

The Fabric Transport System essentially consists of conveyor chain manufactured out of special steel. Specially designed Loop rods of a suitable diameter are held at regular intervals on conveyor chain with the help of a stainless steel pin and special bushes. A unique arrangement is provided to rotate the loop rods on their axis when the fabric is being transported to avoid rod marks. In each Chamber, fabric movement on Rod is 1 meter.

The loop forming system is essentially a Simple arrangement consisting of Feed roller and Flap device. The loop length can be varied between 1 to 2 meters (overall 2 to 4 meters contents) giving a fabric content per section between 30-65 metres. The fabric take-off device consists of a Plaiting down Device with a separate AC Motor with suitably arranged Guide rolls to give minimum tension to the fabric.



Loop Dryer Cum Polymeriser

HEAT EXCHANGERS

Multi-pass, multi tube construction Finned tube type Heat Exchangers suitable for Hot Thermic Oil Circulation are provided to attain a maximum temperature of up to 180°C. The machine can be made suitable for temperatures of up to 200/210°C by increasing the heat exchanger capacity. The machine can also be equipped with **Direct fired Natural Gas or LPG** Burners instead of **Thermic Oil** Heat Exchangers.

The modular construction of the machines ensures that the holding capacity in the curing zone can be changed by increasing the number of sections. The highly compact machine design ensures better productivity, long life and substantial saving in electrical and thermal energy.

HEAT RECOVERY

A heat recovery unit, utilizing exhaust heat, can be provided to help reduce operational costs and make machine operation economical. The machine is, as a standard, provided with necessary automatic temperature controller with on-off control. For more accurate temperature profiles a PID controller can be provided. If desired the machine can be equipped with a PLC for precise control of various machine functions including dwell time control.

SALIENT FEATURES

- ▶ VERSATILE USE
- ▶ UNIFORM TEMPERATURE
- ▶ HIGH PRODUCTIVITY
- ▶ COMPACT AND SIMPLE DESIGN

SAFETY FEATURES

- ▶ Exhaust interlinked with Main Motor (Main Drive will start only if exhaust is switched on)
- ▶ Firing of Gas Burners interlinked with circulating blower (burner will operate only if circulating blower is on)
- ▶ Flap Door to open automatically if pressure inside the curing zone increases. A safety switch interlinked to this will stop the main motor
- ▶ Fresh air entry arrangement can be provided if desired
- ▶ Machines can be supplied suitable to work two ends of fabric side by side or two ends super imposed or both side by side and super imposed



- ▶ AUTOMATION
- ▶ MODULAR CONSTRUCTION
- ▶ ECONOMICAL OPERATION

TECHNICAL DATA

Model	LDP-80	LDP-140	LDP-200	LDP-260	LDP-320
Total Contents	80 mtrs	140 mtrs	200 mtrs	260 mtrs	320 mtrs
Installed Power	14-18 kW	7.5-11.5 kW	9-11.5 kW	11-15 kW	17.5-20 kW
Max. Temp. (Standard Machine)	180° C	180° C	180° C	180° C	180° C
Speed Range : Mtrs / Min.	10 to 30	15 to 45	15 to 45	20 to 60	20 to 60
Curing time (minutes)	2.5 to 7	3 to 8	4 to 10	4 to 12	5 to 15
Loop Length	2 metres	2 metres	2 metres	2 metres	2 metres

Manufactured by

SWASTIK TEXTILE ENGINEERS PVT. LTD.

Selling Agents

SHREEJI ENGINEERING & MARKETING SERVICES

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