

Relax Dryers



The concept

The relax shrink dryer has been specifically designed by Dhall for tensionless drying, shrinking, intermediate drying, for woven & knitted fabric in tubular and open width form. The mechanical action of the air enables the fabric to assume their natural tensionless configuration for improved final fabric quality.

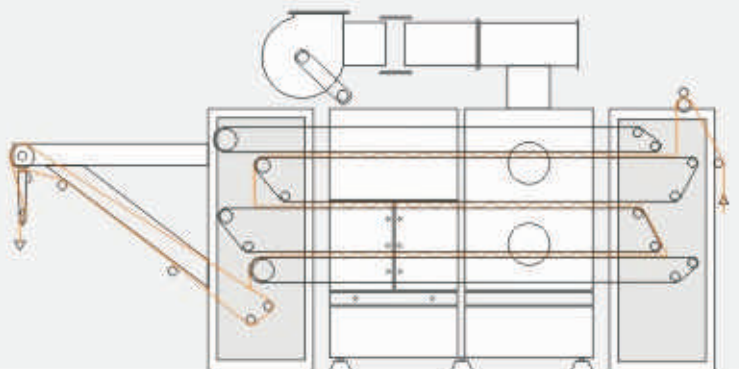
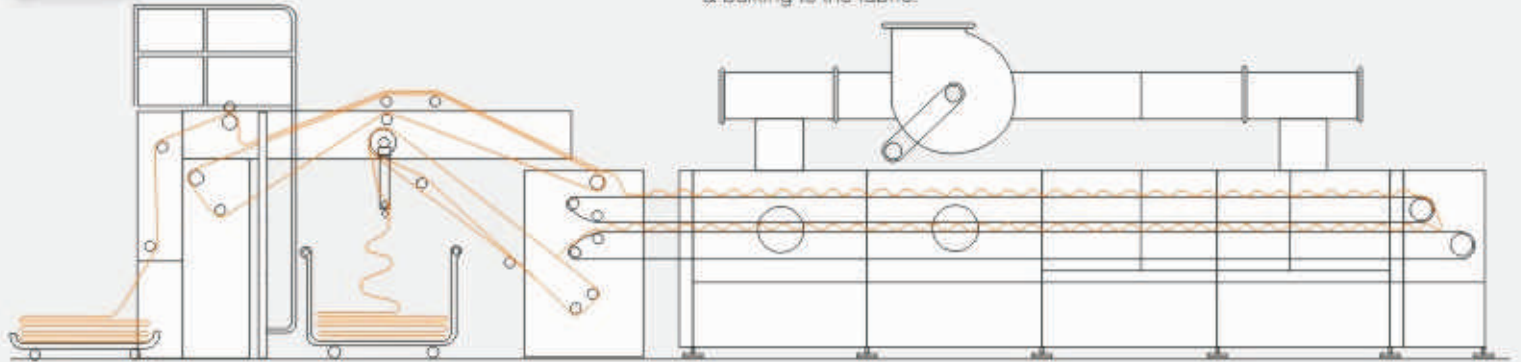
As per required production the drying chamber can be fitted with a variable number of section & layers. The slotted nozzle boxes ensure optimum air distribution. Being fitted in a staggered configuration.

Above and below the fabric runs heating system either as direct gas-heating or indirect steam or oil circulating heating.

On request the dryer can be fitted with automatic process control of the various parameters E.G. to control the moisture & temperature content of the fabric exhaust air. Machine provided to handling fabric width of 1800mm to 32mm open width.

As easily accessible. Removable air filters can be cleaned without downtime while machine is running.

Dhall's tensionless conveyor dryer for knitted and woven fabrics is treated under the total relax from, on the conveyor belts, with tumbling movements, for achieving the dimensional stability by means of overfeed to obtain length shrinkage, better handle & bulking to the fabric.

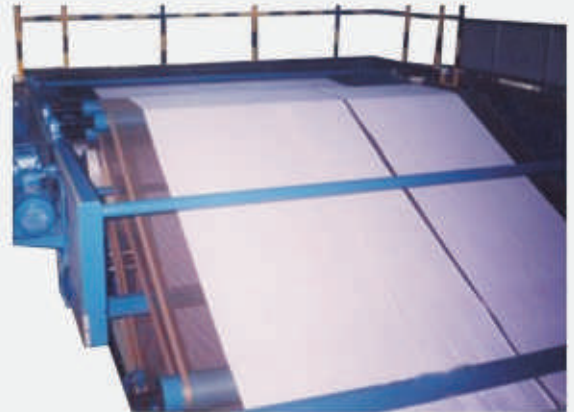


Single Layer Dryer

Relax Dryers



Feeding unit



Fabric transportation on P.T.F.E conveyor



Chamber seal with silicon seal



Plaiting unit through conveyor



Fabric wave formation on conveyor in chamber

Salient features

Suitable for tubular, open width knit as woven fabrics, whether natural or synthetic based.
Perfect tensionless conveying system offers lowest residual shrinkage.
Possible for both drying & heat treatment.
Suitable steam, oil, gas heating system.
Can also run three / four layer of fabric side by side.
Automatic temperature control system.
A.C. inverter drive.
A.C. inverter for blower fan motor.
PLC system. (On request)

Technical specification

Machine speed : Up to 50mts / min.
Length of chamber : 2000 mm multi layer 4000 mm single layer
Number of chamber : One to three (higher on request)
Standard conveyor width : 1800 to 3200 mm
Fabric overfeed speed : Maximum 220 c
Install thermal power : 200,000 kcal/hr. per chamber
Fabric guiding : Single or multi set according to machine width



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