

A vertical graphic on the left side of the page, composed of five stylized, light gray icons representing different types of industrial equipment: a rectangular tank, a chair-like structure, a diagonal beam, a cylindrical tank, and a circular tank.

## TS16 松式预缩烘干机

TUMBLER DRYER SYNCRO TS16 SERIES

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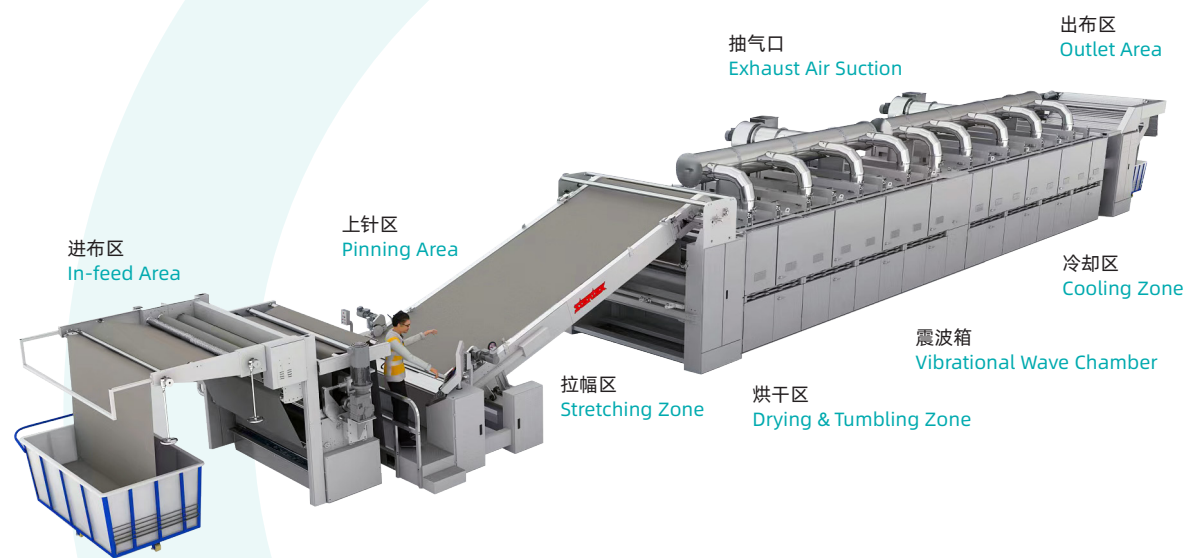
TS16 系列烘干机是一款高效的松式网带烘干机，适用于开幅以及圆筒织物烘干。

该烘干机机械设计独特，在烘干过程中使得织物的经向纱线有回缩的机会，以恢复纱线的平衡状态和消除织物内应力，达到门幅与克重要求。产出织物具有手感蓬松、形态稳定和降低缩水残余率等优点。其显著设计特色也包括单位箱体烘干量高，烘干效果均匀，以及配备智能 PLC 操作系统等。

TS16 is a high efficient conveyor net type Shrinkage & Relaxation Dryer for open width and tubular fabrics.

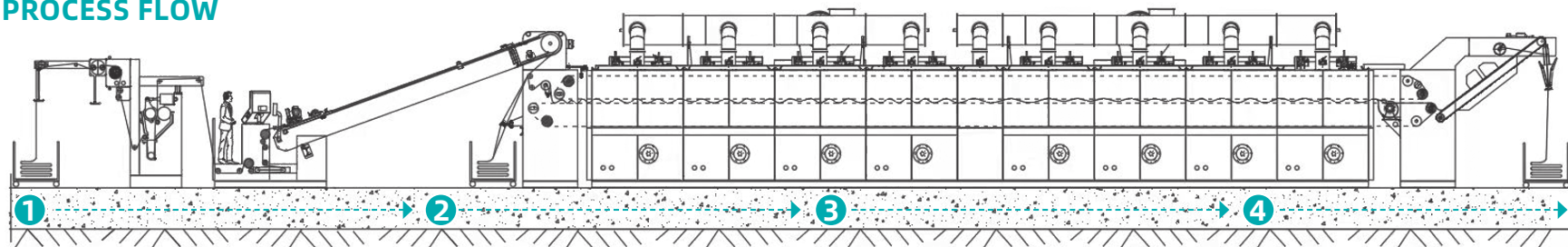
Its unique design recovers the width by overstretching the width on the pin chain while overfeeding the chain to relax fabric and restore length thus such mechanism shrinks the loop back to its original position. The process also eliminates the internal stress of the fabric in order to achieve excellent output fabric width, gram weight and creation of soft hand feel as well as the low residual shrinkage and dimensional stability. The design also features highest drying capacity per chamber with parallel drying above and underneath the fabric, equipped with PLC Intelligent Control System.

基本技术参数 Basic Technical Parameters	
工作宽度 Working Width(cm)	100-340
最大载量 Number Of Chamber	4、5、6、8 箱 4、5、6、8 Chambers
公称宽度 Norminal Width	工作宽度 +20 厘米 Working Width+20cm
震波箱数量 Number Of Vibrational Box	1 箱 1 Chamber
机械速度 Mechanical Speed	每分钟 8-60 米 8-60m/Min
蒸发能力最大值 Evaporation Capacity	每厢每小时 350 公斤 350kg Per Chamber Per Hour
加热系统 Heating System	蒸汽 / 导热油 / 天然气 Steam/Thermal Oil/Natural Gas
总长度 Total Machine Length	烘箱数量 *2+ 震波箱数量 *1+17 米 Chamber*2+ Vibrational Box*1+17m



# 工艺流程

## PROCESS FLOW



织物在湿状态超喂进入拉幅针链，织物的经向内应力得到一定程度消除

When the fabric is overfed into the stretching needle chain in the wet state, the internal stress of the fabric can be eliminated to a certain extent.

织物脱针后以松弛和规律的波纹状堆置并进入烘箱区

After the fabric is removed from the needle, piled into the ovens in a relaxed and regular corrugated plaiting state.

中间箱为震波箱，织物通过机械拍打及蒸汽作用进一步增强预缩效果

The intermediate chamber functions as a vibrational box, where the fabric undergoes mechanical beating and steaming to further enhance the pre-shrinking effect.

布从烘箱出来后进入倾斜冷却板条区进行冷却

After coming out of the oven, the fabric enters the inclined conveyor device for cooling and plaiting.

# 设计特点

## DESIGN FEATURE

### 板条式对中展幅装置

Slatted Type Centering Device



织物通过板条式对中装置合适导入

The fabric is properly directed through a slatted type centering device.

### 爬坡式拉幅架

The Uphill Tenting Frame



约 6 米长爬坡式拉幅架并配备低维护需求的针链和垂直转动链

A six meters long uphill tenting frame which is equipped with low maintenance vertical pin-chain.

### 烘箱

The Ovens



无张力喷嘴型烘干装置有空气喷嘴，上下喷嘴的间隙高度可调，有助于织物收缩工序

The gap between the upper and lower nozzles can be adjusted to facilitate the fabric shrinkage process.

### 智能节能系统

Intelligent Energy Saving System



包含 PLEVA 湿度检测装置的智能节能系统能够有效减少新鲜空气供量及耗能

Measurement and control of exhaust air moisture.

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