

LX1000型高速加弹包覆一体机

LX 1000 High-speed Draw Texturing and Air Covering All-in-one Machine



设备特点 Features

该机可将锦纶无捻原丝POY加工成具有高弹性能的弹力丝DTY，同时在机器上将氨纶丝和锦纶弹力丝复合，通过特制的节能网络喷嘴，一步实现实现加弹氨纶包覆，流程短，能耗低，效率高。

The machine is used to process POY (PRE-ORIENTED YARN) into high stretch fiber DTY(DRAW TEXTURED YARN).At the same time, it can make spandex and stretch DTY to be air covering. Through the special intermingle nozzle to achieve spandex-polyester air covering(POY-DTY-ACY). The machine is the most advanced, low energy consumption, but high production.



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性能 Performance

- 机器D1, D2, D2.2, 三道罗拉全部采用导丝盘结构，导丝盘均采用单独的微电机控制，对丝的握持性好，保证牵伸的一致性。
 - 机器A-B面独立传动，均采用同步节能电机直接传动，取消同步带，工艺参数可分别设置，二面可加工不同的品种。
 - 采用特制的节能喷嘴，降低气耗，节省用电。
 - 采用二道D2罗拉结构，提高锦纶包覆的结点均匀和牢度。
 - 采用独特的丝道结构，提高加工细丝时工艺速度，效果明显。
 - 采用可调柔性万向调节的氨纶支架，保证氨纶在高速喂入时不会断头。
 - 电动生头，引丝方便快捷。
 - 变形热箱采用联苯气相加热，温度精确控制在±1°C，确保每锭温度的一致性，保证后道染色的均匀性。
 - 该机结构布局合理，传动可靠，噪音低，易于工艺调整，可单锭位保养维修，提高生产效率。
- 1.Three rollers named machine D1,D2,D2.2,all adopt the godet mechanism. The godet is controlled by the micro-motors. It control the fiber well and ensure the stretching.
- 2.The machine's two sides (A-B) running relatively independent, both adopt energy-saving motor instead of belt,the process parameters can be set separately. Two sides could process different productions.
- 3.The specially energy-saving nozzle can save air and power.
- 4.Two-step D2 roller structure improve the node uniformity and fastness of the nylon spandex.
- 5.The special fiber structure is adopted to improve the efficiency of fiber processing.
- 6.The adjustable spandex universal support is adopted to ensure the spandex feeding well during high speed running.
- 7.Electric yarn string-up device ensures convenient and quick threading.
- 8.Machine's deformation heater adopts biphenyl air heating.The temperature precision is exact to ±1 °C assure every spindle's temperature to be same.This is beneficial for dyeing.
- 9.Excellent machine structure reliable drive system and low noise. It is easy for process adjustment, and maintained by single spindle to improve productivity.

技术参数 Technical Specification

型式Type	V型 V type
锭数Spindle Number	240锭, 24锭/节x10=240锭 240spindles ,24 spindles/section x 10 =240spindles 288锭, 24锭/节x12=288锭 288spindles ,24 spindles/section x 12 =288spindles
锭距Spindle Gauge	110mm
假捻方式False Twisting Type	叠盘式摩擦假捻方式 stacked disc friction false twister
变形热箱长度Length of Heater	2000mm
变形热箱温度范围Heater Temperature Range	160°C-250°C
热箱加热方式Method of Heating	联苯气相加热 biphenyl air heating
最高极限速度Maximum Speed	1000m/min
工艺速度Process speed	800m/min~900m/min
卷装规格Take-up Package	Φ250xΦ250
卷绕型式Winding Type	槽筒式摩擦卷绕方式, 双锥形卷装 groove drum type friction winding , packaged with double tapers bobbin
纺纱范围Spinning Range	氨纶15D~70D;锦纶20D~300D spandex 15D~70D; chinlon 20D~300D
装机容量 Installed power	163.84KW
有效功率 Effective power	80KW~85KW
外形尺寸 Machine Size	240锭 , 18926X7584X5630MM 288锭 , 21806X7854X5630MM