

概要

Outline

DENSIMATIC是一种在加工各种纺织品和针织品时检测纬纱的倾斜角度及方向,自动矫正扭曲的装置。

DENSIMATIC is designed to treat woven and knitted fabrics of various types. It detects the direction and angle of weft distortions, and rectifies the weft distortions automatically.

特点

Features

通过提高检测性能使得高精度布料检测成为可能,并也可用于检测复杂的针织和编织面料。对应速度快并进行即时矫正。所有纬纱矫正机都配备有操作性良好的触摸屏。显示画面色彩鲜艳便于观察,操作简单。

With improved detecting function, it is possible to detect weft distortion with high-accuracy, which makes complicated knitted and woven construction available. Speedy rectification has been achieved. A touch panel has been adapted to all kinds of Densimatic for its user-friendly properties. The colorful and clear display is easy to operate for user.

检测部

Detecting Section

复杂梭织、针织物用双模式[V型、平织物用F]型共2种检测器。

一般,一合机器有4个检测器(MV有3个),根据布料幅宽,可安装从2个到6个。

Two types of detectors, the dual-mode detector V-type for complicated woven and knitted construction, and the slit detector F-type for plain woven ones, are available. Four detectors (three for the MV-type) are mounted for regular operation. From two to six can be mounted according to the width of fabrics.

控制部和显示部

Control and Display Section

自动操作、手动操作皆可。

自动操作,即自动检测出加工速度,根据布料材料角度、方向。

通过电脑控制,自动进行最合适斜和弧形纬纱矫正。

在全机种,采用操作性良好的触摸屏。

The system can be controlled with the automatic or the manual modes independently. In the automatic mode, the computer calculates and controls the optimal skew correction and bow correction from the detected working velocity and the direction and angle of weft distortions. A touch panel has been adapted to all kinds of Densimatic for its user-friendly properties.

矫正部

Rectification

由斜料辊、矫正辊、导布辊、定心辊构成。

根据控制盘输出信号,驱动伺服电机进行斜形和弧形纬纱的矫正。

并且能够根据布料的速度按照一定的比例驱动矫正辊,从而控制张力。

The system has four types of rectification roll, the skew correction roll, the bow correction roll, the guide roll, and the centering roll. The system can perform the skew and bow correction by control of rectification roll. By driving the bow roll proportionally with the velocity of fabrics, it can also perform the tension control.

DENSIMATIC SVW 7

高性能检测器

High-performance Detector

最新开发的双模式「V型检测器」

大幅度扩大了可检测布料的种类

First in the world! Newly-developed, dual-mode "V-type sensor" dramatically widens fabric application.



SMOOTH

控制

Control

根据纬纱扭曲的严重程度和面料传送速度改变矫正速度,使得矫正动作与面料相适应。此外,还为新设计的张力调节器采用数字张力控制,使得张力控制的范围更大,向下可控制更低张力,向上可控制更大张力,而且精度更高。根据纬纱变形量及面料速度可变换矫正速度,从而减轻了矫正时对面料的负担。通过采用新设计的跟踪辊,实现了从超低张力到高张力的大范围且高精度的张力控制。



Weft straightening without causing damage to fabric has been achieved through variable operation speed according to the degree of weft distortion and fabric speed. High performance of tension control and wide range of tension control from low tension to high tension was achieved not only by newly-designed dancer roll but also by adoption of digital tension control.



STYLISH

操作屏

Operation Panel

采用操作性良好的触摸屏,色彩鲜艳易观察的大画面TFT液晶显示屏可直观显示面料的卷目扭曲及矫正状态。通过高清晰的图形实时显示实际情况,采用图标显示使得用户界面更加友好。



A touch panel has been adopted for its user-friendly properties. The colorful, clear and wide TFT liquid crystal screen displays lucid images of the state of weft distortions and of their being straightened. Real-time condition is displayed with high detailed graphics. Also adoption of icon display made interface friendly for user.