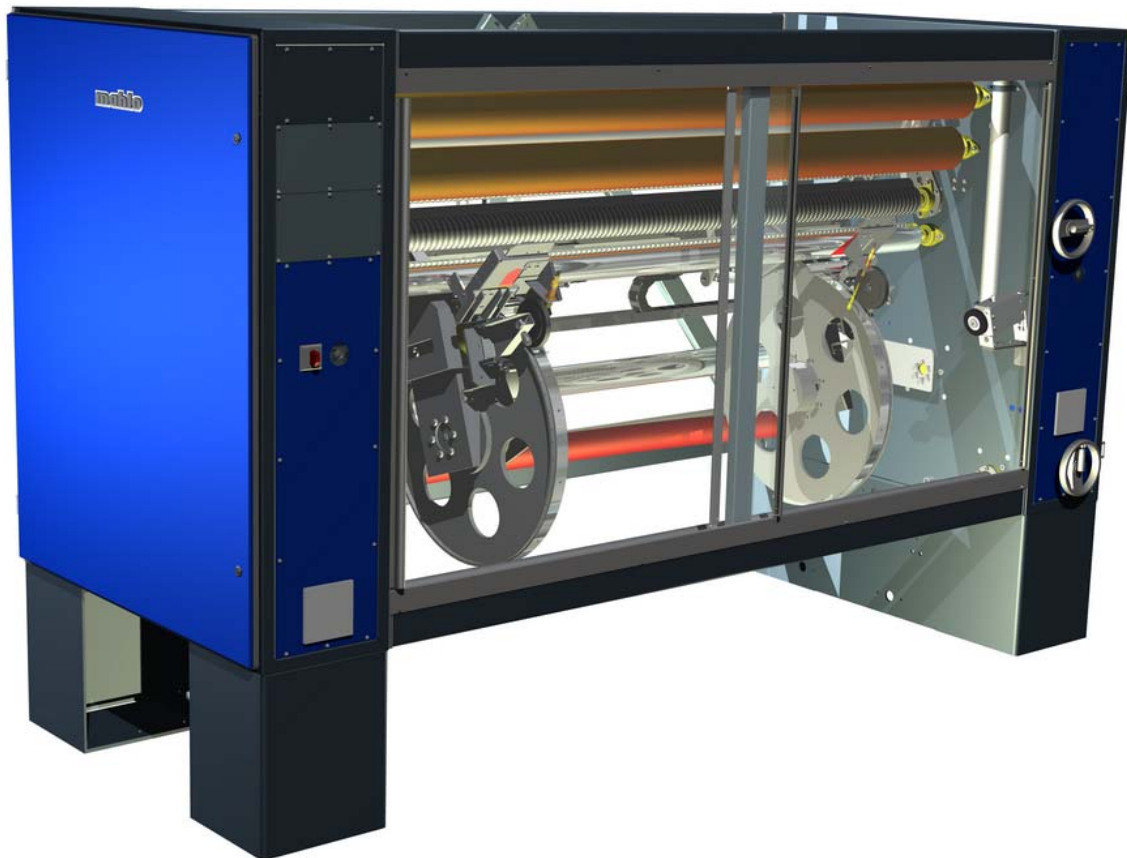


INNOVATION

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ORTHOFACT RMB-12

Automatic pin wheel straightening system



TEXTILE NONWOVENS PAPER PLASTIC



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ORTHOFACT RMB 84-010395-003 en
Subject to technical changes!
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Removing all types of distortions



Asymmetrical distortions (wavy, S-shaped, etc.) in textiles have always represented a huge challenge in the textile industry. Distortion always means that the rectangular structure of warp and weft threads is distorted resembling something like a parallelogram.

Solution

To restore the warp and weft threads to their original state, a defined lateral tension is generated using freewheeling, inclined pin wheels. This cross-tension stretches the warp threads. The distortion, no matter whether wavy or S-shaped, will be corrected.

Special Mahlo® Know-How

The lateral tension is generated with two inclined pin wheels. Two pneumatic cylinders, supplied via a pneumatic line, are used for a consistent straightening effect. To compensate friction losses and tolerances, a spring generates a counterforce which forces the uniform symmetric alignment of the pin wheels. Elaborate lever constructions requiring intensive maintenance can thus be dispensed with.

Product highlights

- ✓ High lateral tension possible
- ✓ Adjustable unclipping device
- ✓ Bypass function
- ✓ Intelligent drive
- ✓ Comprehensive software with touchscreen control
- ✓ Pinning width adjustable during operation with software

Special features

An infinitely variable unclipping roller minimises residual bow and edge distortions. The intelligent drive station with special voltage control for smallest product distortion activates or deactivates automatically (e.g. in case of blockages). A bypass function is available at the push of a button for products that cannot be straightened with the pin wheel. On wet fabric teflon-coated feed rollers are used.

Customer benefits

- ✓ Reliable, quick distortion correction
- ✓ Effective also with asymmetric distortions
- ✓ Less spoilage

Technical Data		
Type	Orthofact RMB-12	
Straightening mechanics	2 pin wheels, 1 bow roller (On wet fabric: teflon-coated feed rollers)	
Max. product width (PW)	1200 – 3200 mm (larger PW upon request)	
Min. product width	800 mm	
Max. product speed	Max. 80 m/min	
Possible lateral tension	2,400 N	
Possible product web pull (drive station)	Max. 1200 N	
Possible straightening effect	Depending on the product width (Example: at b= 1800 approx. 20% of product width)	
Product guidance	Needle strips on straightening wheels	
Straightening wheel diameter	800 mm	
Drive of traversing movement	Asynchronous motor	
Drive of straightening wheel swivel movement	Pneumatic cylinder	
Weight (at product width = 2000 mm)	Approx. 2,200 kg	Approx. 3,100 kg
Mains connection	400 V / PE; 3 AC; 50/60 Hz;	
Max. power consumption	2.6 kVA	6.3 kVA
Max. ambient temperature	45 °C	
Sound pressure level	< 80 dB (A)	

Measuring systems, control systems, automation:

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