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ORTHOPAC® CRVMC–12

The Specialist for Carpets and Technical Textiles

ORTHOPAC CRVMC–12

Quality made in Germany

TEXTILE NONWOVEN COATING & CONVERTING PAPER EXTRUSION

BASIS

VISUALIZATION

EVERYTHING AT A GLANCE

TEXTILE NONWOVEN COATING & CONVERTING PAPER EXTRUSION

Product highlights

- ✓ Clearly arranged presentation of the distortion characteristic
- ✓ Menu-controlled service settings
- ✓ Two-part combination image for simultaneous monitoring of two scanner units
- ✓ Distortion default as percentage, adjustable (left: skew, right: bow)
- ✓ Direction of product flow and momentary characteristic of the weft
- ✓ Current web distortion as percentage (left: skew, right: bow)
- ✓ Trend diagrams (top: skew, bottom: bow) freely scalable
- ✓ Image scale of histogram, selectable, e.g. -5...0...+5 (top: skew, bottom: bow)
- ✓ Password protection – unauthorised users are prevented from accessing the operating software
- ✓ Recipe management

Benefits for the customer

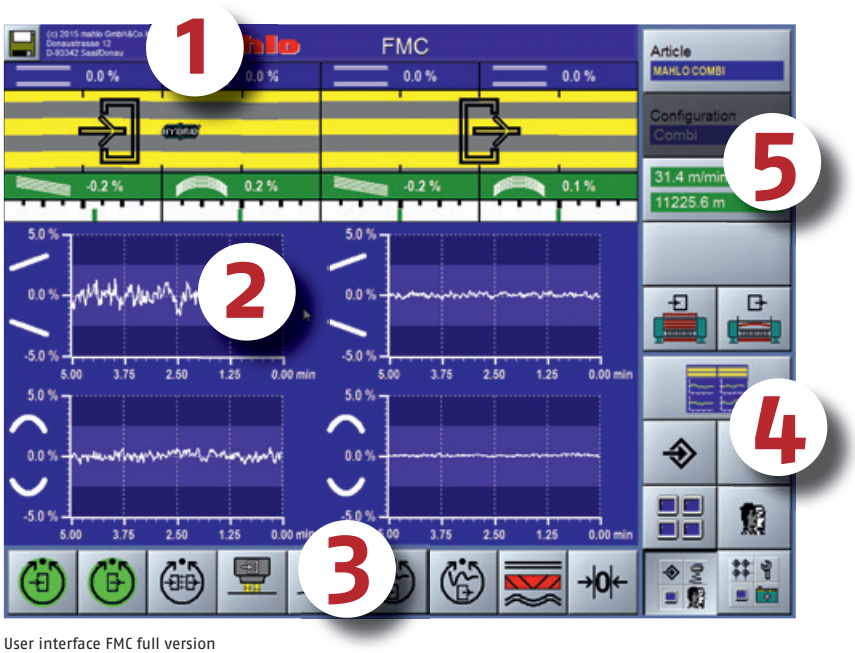
- ✓ Menu guide in all common languages
- ✓ Very user-friendly
- ✓ Ergonomic user prompting
- ✓ Ease of operation

Use of the touchscreen technology replaces a control unit with pushbuttons and switches. All entries are made directly on the screen using large, ergonomic buttons. Operation is simple and intuitive. All key information is visible at a glance.

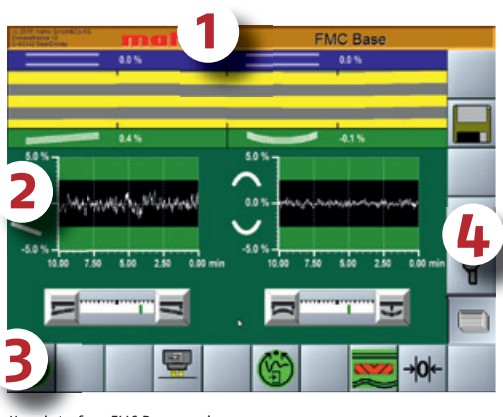
Visualization and operation per touchscreen

Various versions of the operating software are available for individual use:

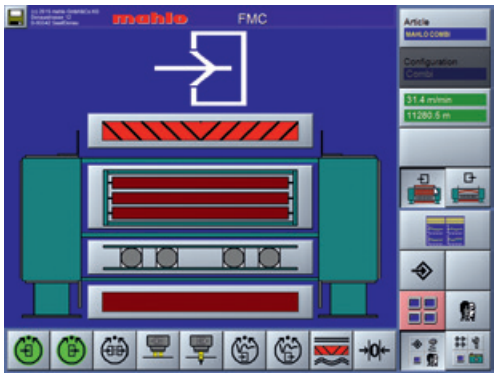
- The **FMC** full version offers all setting capabilities and options to the entire depth. The full potential of the straightening system can thus be utilized.
- The FMC Base version focuses on the essential functions of the system and offers a compact and simple overview for thecontrol of the processes.



User interface FMC full version



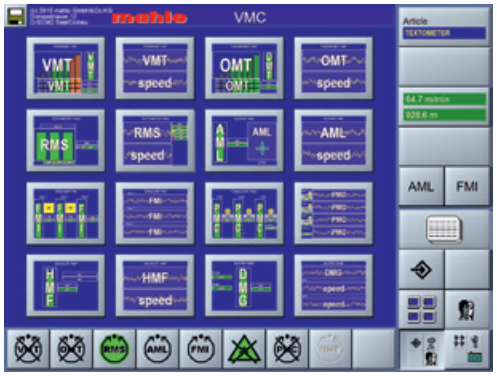
User interface FMC Base version



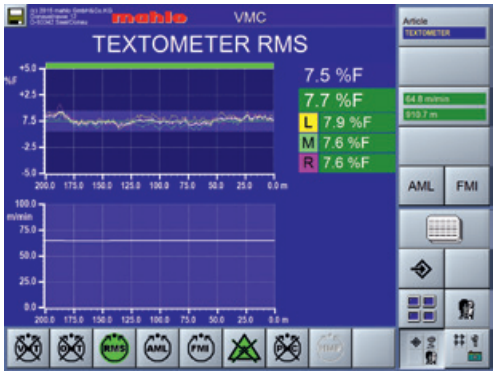
Device overview Orthopac
with active and inactive elements

The user interface consists of five areas:

1. Title line:
General information (including alarm bar)
2. Display area:
Selectable screen pages (display forms)
3. Horizontal block:
Operating buttons for basic functions and submenu
4. Selection block:
Navigation within the operating software
5. Vertical block:
Operating buttons for the menu selection



Main page for sensor selection
with integrated process control (option)



Trend display of residual moisture when featuring integrated process control (example)

VISUALIZATION

STRAIGHTENING AND PROCESS CONTROL SYSTEM

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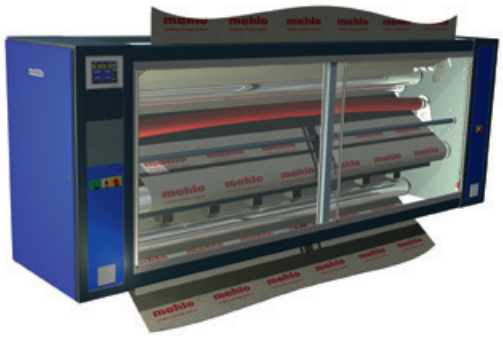
ORTHOPAC® CRVMC

The Specialist for Carpets and Technical Textiles



The ORTHOPAC CRVMC is especially designed for high mechanical load.Thanks to reinforced components, it is ideal for processing very heavyweight and wide materials. The arc of contact of the straightening rollers thereby depends on the desired straightening effect. With products without skews and bows, the straightening rollers are not enveloped unnecessarily. When the straightening rollers engage with the product, the uniform contact of the straightening rollers with the product is ensured over the entire width. This becomes possible through our innovative and unique roller positioning drive.

Product-highlights

- ✓ Reinforced construction; large roller diameter
- ✓ Suitable for tensional forces of up to 3 kN
- ✓ Working widths up to 5400 mm possible
- ✓ User-friendly, easy-access design
- ✓ Optimised product contents
- ✓ Innovative roller positioning drive

Customer benefits

- ✓ Maintaining tight distortion tolerances
- ✓ Avoiding complaints
- ✓ Improved customer relationship
- ✓ High repeatability
- ✓ Short amortisation times
- ✓ Documentation of residual distortion

The carpet straightening system stands up to the tough everyday industrial demands.

Applications

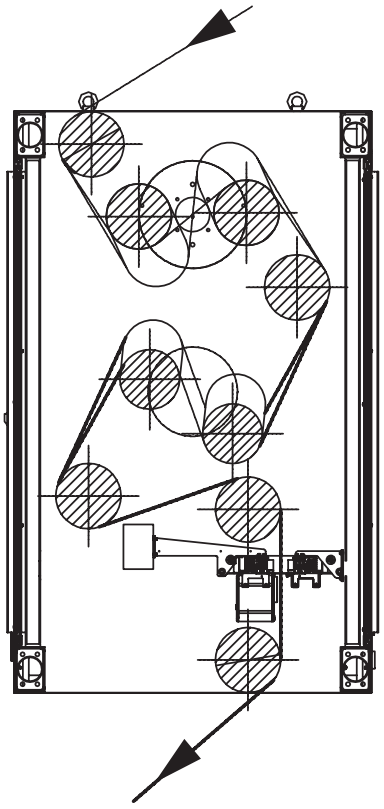
Distortions impair a product's visual features and / or practical value, both of which are of particular significance in the case of decorative or industrial materials. The ORTHOPAC CRVMC straightening unit is used wherever very high product tensions and / or large widths are to be expected.

Due to the pattern application for carpeting between rolls, a high degree of freedom from distortion is required. If the tight tolerance requirements are not met, the result is either costly claims or debarred access to a more lucrative market segment.

Principle of operation

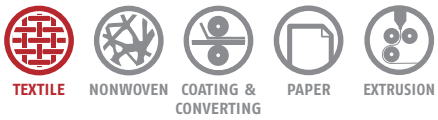
An ORTHOPAC CRVMC is especially designed for high mechanical loads. In particular, the specially reinforced drive unit for roller positioning ensures perfect straightening even under the highest product tension loads. The system also features a solid, reinforced frame design, reinforced roller bearings as well as larger diameters of bow and skew rollers scanner unit. Electronics, display and operating station, etc. correspond to the design of the ORTHOPAC RVMC; all scanner heads are adjustable.

The system can process very low (carpet) but also very high product speeds up to 100 m/min (technical wovens). It is also available as manual unit. It can subsequently be retrofitted with a scanner (normal or hybrid) or a PATCONTROL PCS pattern detection without problems.



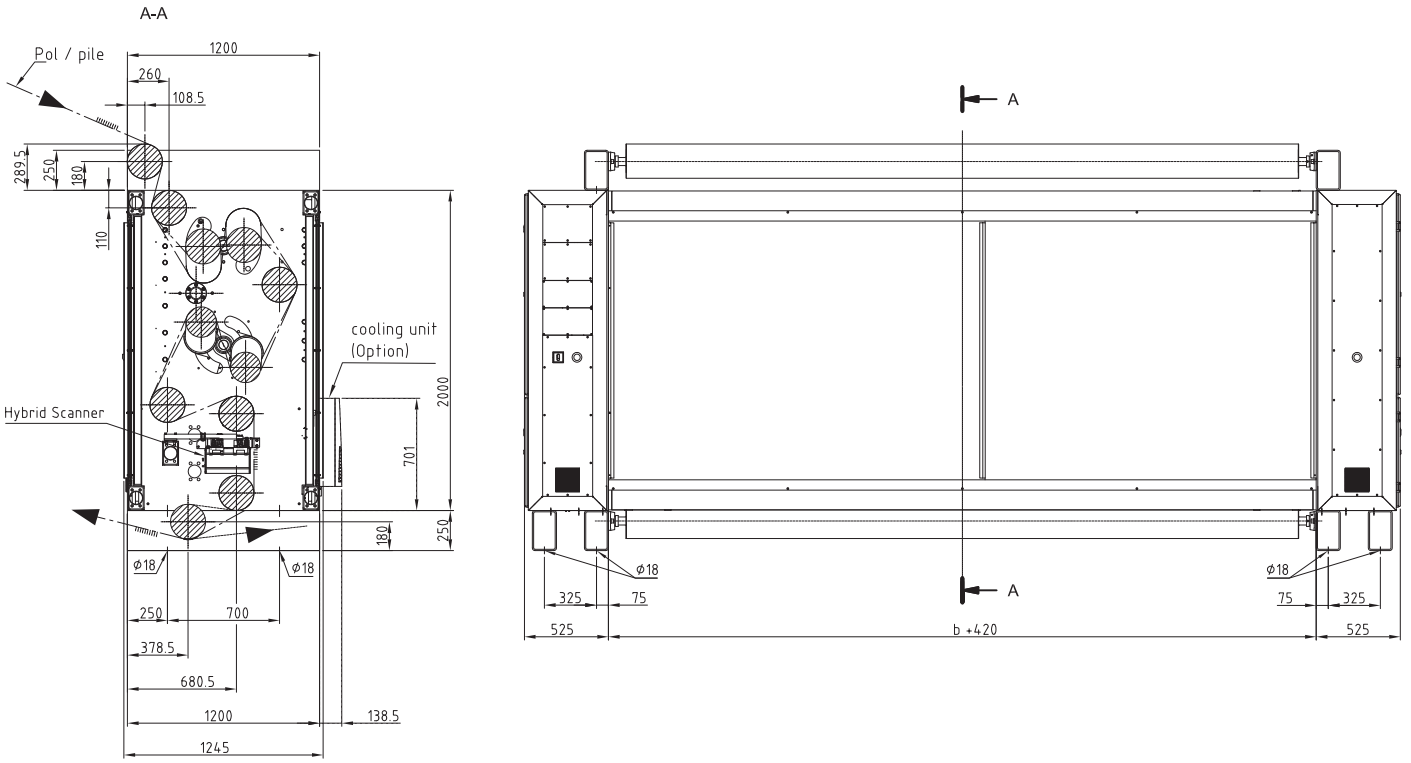
The product flow of the ORTHOPAC CRVMC.

TECHNICAL DATA | **ORTHOPAC CRVMC**



Straightening device	Orthopac CRVMC
Straightener	2-skew rollers, 2-bow rollers
Drive mechanism	Electrical: controlled by frequency-regulated servo motors
Straightening capacity	Max. skew ± 550 mm; max. bow (centre forward) ± 300 mm; bow (edge forward) max. ± 200 mm
Rate of roller adjustment	Bow/skew adjustable, minimum of 4-5 seconds at maximum displacement
Fabric line-speed	Max. 100 m/min
Fabric capacity	~ 3900 mm
Scanner assembly	2–8 scanners; Option: Fully automatic scanner adjustment via edge sensor
Max. fabric width	5400 mm
Weight (at w = 5000 mm)	~ 6500 kg
Power supplies	3~ 380V/50Hz, 3~ 400V/50Hz, no neutral; transformer module available for other voltages
Power consumption	Max. 6,3 kVA
Ambient temperature	Max. 45°C (no air conditioner)
Display and control terminal	12,1" TFT tuchscreen in separate enclosure; Available only in semi-stand-alone form (control terminal separate)

Abmessungen



b = Nennbreite / working width (Bmax=5400)

Orthopac CRVMC
91-017400

PERSONALITY
You're not just a number to us. Your individual needs and special requirements are our highest priority. We are there for you with our expertise, our leading technology and full dedication. So you can always play to win.

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Mahlo GmbH + Co. KG Germany
Donaustr. 12, 93342 Saal/Donau
Tel.: +49-9441-601-0
Fax: +49-9441-601-102
info@mahlo.com

Mahlo Italia S.R.L. Italy
Via Fiume 62, 21020 Daverio
Tel.: +39-0332-94-95-58
Fax: +39-0332-94-85-86
mahlo.italia@mahlo.com

Mahlo America Inc. USA
P.O. Box 2825, Spartanburg, S.C. 29304
Tel.: +1-864-576-62-88
Fax: +1-864-576-00-09
mahlo.america@mahlo.com

Mahlo Ouest S.P.R.L. Belgium
Quartum Center
Hütte 79 - Bte 10
4700 Eupen
Tel.: +32-87-59-69-00
Fax: +32-87-59-69-09
mahlo.ouest@mahlo.com

Mahlo España S.L. Spain
C/ Santa Margarida, s/n - Nave nº13
Polígono Industrial Riera de Caldes
- Boada Vell
E08184 Palau Solità i Plegamans (Barcelona)
Tel.: +34-938-640-549
mahlo.espana@mahlo.com

Mahlo do Brasil Ltda. Brazil
Rua dos Lírios 849 e 851
Cidade Jardim II - Americana – SP
Brasil CEP- 13466-580
Tel.: +55-19-3407-7954 / +55-19-3601-7363
Fax: +55-19-3405-4743
mahlo.brazil@mahlo.com

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ORTHOPAC® CRVMC-12 84-010362-002-en