CEREMAT MMZ

Web guidance system

With the different finishing processes of textile product webs, drifting of the webs perpendicular to the web’s running direction can only be avoided by using appropriate systems. The versatile spreading and web guidance system Ceremat MMZ ensures a precise product run. The web will run exactly at the preselected position into the machine. Ceremat MMZ thereby guarantees a trouble-free process (e.g. infeed Foulard, Sanfor, minimum waste with edge trimming) and high product quality.

Customer benefits

✓ Reduced waste
✓ Troubelfree production
✓ High product quality

Product highlights

✓ Wide range of applications
✓ Variable application through bar linings
✓ Individual adjustment to any product web

Principle of operation

A remote, broadband sensor determines the actual, lateral position (line) of the online web. A comparison between the sensor’s two outputs and subsequent evaluation produces a control signal for the assembly’s actuator (servomotor). The course taken by the web is then corrected accordingly.

The actuator

The system employs an ultrasensitive, pneumatic actuator which, in comparison with other known pneumatic actuators, offers distinct advantages:

- cloth is adjusted and guided accurately, even at high line-speeds
- first-rate control in terms of stability
- needs little attention, as it is virtually immune to wear and tear
- is not liable to break down

The basic system comprises:

- Centraliser with 12 one piece or split slats (covered according to requirements)
- Broadband sensor
- Pneumatic slat adjuster
- Electrics to control the system
- Control software
A choice of guiding-slat coverings to suit a variety of applications!
A variety of guiding-slat coverings cater for a wide range of applications, and each is specifically tailored to suit the material being processed!

**Synthetic rubber covering**
Most suitable when the cloth is likely to alternate between wet and dry. Materials: net curtaining, nonwovens, lining fabric

**Mohair covering**
Suitable for dry cloth only! Materials: woven and knitted fabrics

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**Guiding options**

- **Fabric centralizing: Broadband sensor**
The broadband sensor scans the entire width of the online web to determine its position laterally. The sensor thus needs no self-aligning mechanism.

- **Differential sensor (selvedge guiding): Line sensor**
The lateral position of the fabric selvedge is detected by an infrared sensor.
Options with MMZ-12

- Electrical drive with freewheeling facility
- Expander assembly comprising:
  - 2 ribbed, scroll rollers
  - motor drive
  - manual adjustment of surface contact
- Positioning roller
- Tensioning bars affording manual adjustment of fabric back-tension
- Safety extras
- Electrical adjustment of slats

Typical applications

With split slats

- printing machines
- perches
- calanders
- laminators
- sueding and raising machines

With one-piece slats

- stenters
- dyeing and washing ranges
- padders
- calanders and many more
With innovative and trend-setting technology, Mahlo has been setting standards for decades in the field of measuring and control systems for the industry sectors of textiles, nonwovens and finishing, laminating, coating & converting, film and extrusion as well as cellulose, paper and calendering.

In addition to the technology, direct contact with our customers is especially important to us. This includes intensive assistance and customer care wherever the customer is located and a global service and representative network including 24-hour replacement part service.

Mahlo customers can safely count on the know-how of our experts in any situation, whether installation and startup, conversion of existing systems or maintenance of their machines.
## TECHNICAL DATA

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<thead>
<tr>
<th>Specification</th>
<th>Value</th>
<th>Unit</th>
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<tbody>
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<td>Nominal product width, minimum</td>
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<tr>
<td>Nominal product width, maximum</td>
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<td>Guidance accuracy¹</td>
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<td>kW</td>
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<tr>
<td></td>
<td>1.1 (Drive mechanism as strain support)</td>
<td>kW</td>
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</table>

¹Differential sensor, depending on the edge properties and product transparency

**KNOWLEDGE**

*We have a common goal: Maximum performance for your system. To this end we are by your side from installation to maintenance of the machines to training of your employees. We provide comprehensive training to your staff for operation and maintenance. You will thus be able to solve problems even faster.*
Ceremat MMZ top view (l.) and side view; example with segment control roller with spreading device and tightening bar (91-014803)

**Quality made in Germany**
For decades we have been developing and producing our machines exclusively in Germany – using highly motivated specialists we have trained ourselves. This is your guarantee of the highest level of quality.
Monitoring and control systems, automation

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

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

Mahlo America Inc. - USA
575 Simuel Road
Spartanburg S.C. 29304
Telephone: +1-864-576-62-88
Fax: +1-864-576-00-09
Email: mahlo.america@mahlo.com

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

Mahlo España S.L. - Spain
Calle Luxemburgo nº 4
08303 Mataro (Barcelona)
Telephone: +34-938-640-549
Email: mahlo.espana@mahlo.com