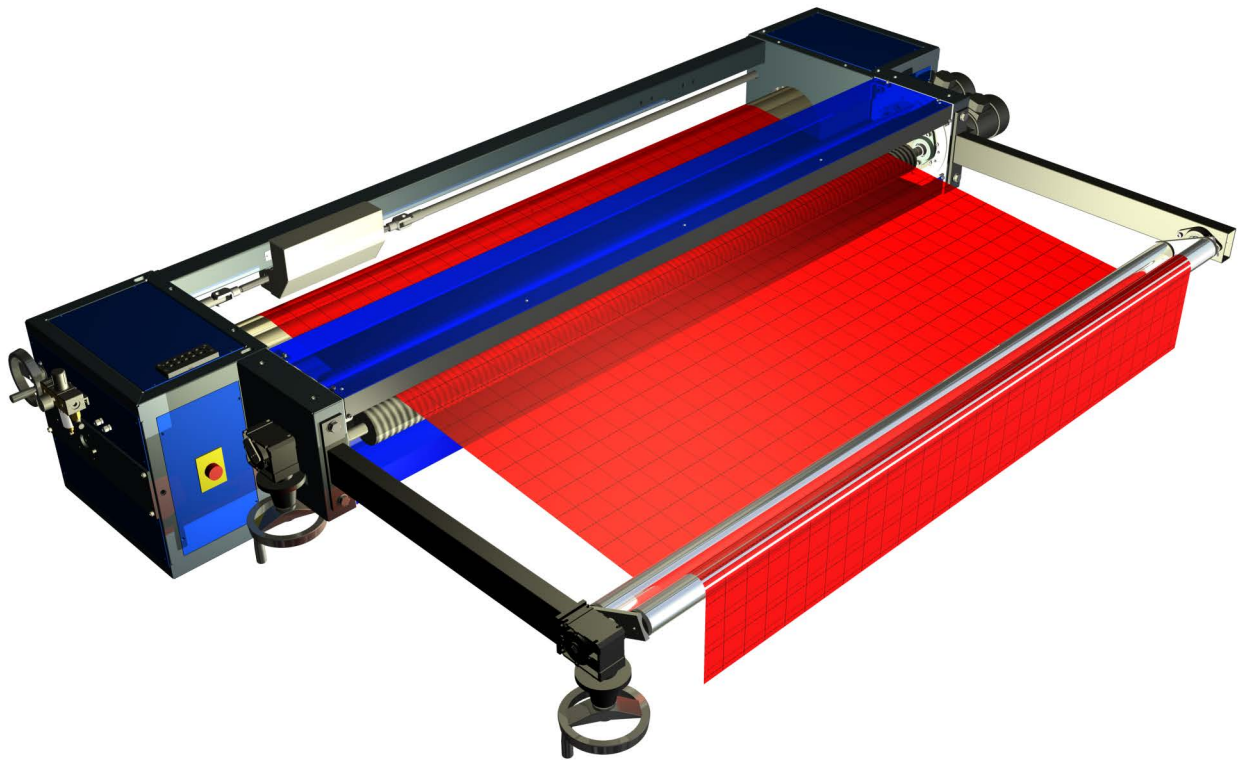


# CEREMAT MMZ-12

Web guidance system



CEREMAT MMZ-12

## 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 troublefree process (e.g. infeed Foulard, Sanfor, minimum waste with edge trimming) and high product quality.



#### Customer benefits

- ✓ Reduced waste
- ✓ Troublefree 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

## Area of application

### 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!



*Ceremat MMZ synthetic rubber covering*

### Synthetic rubber covering

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

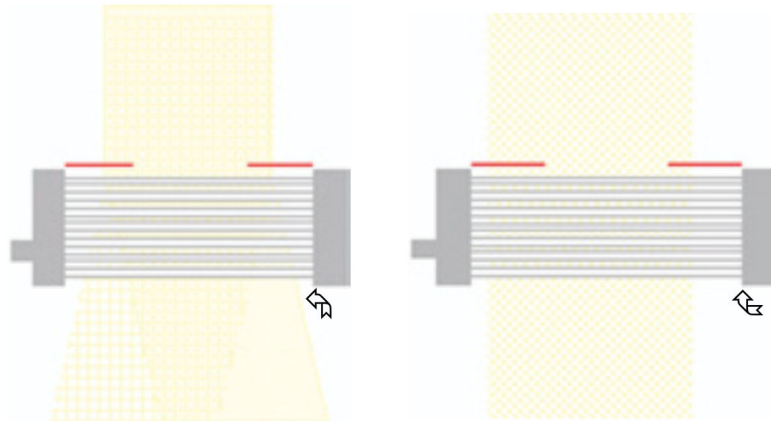


*Ceremat MMZ mohair covering*

### Mohair covering

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

## 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 (selvage guiding): Line sensor

The lateral position of the fabric selvage 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

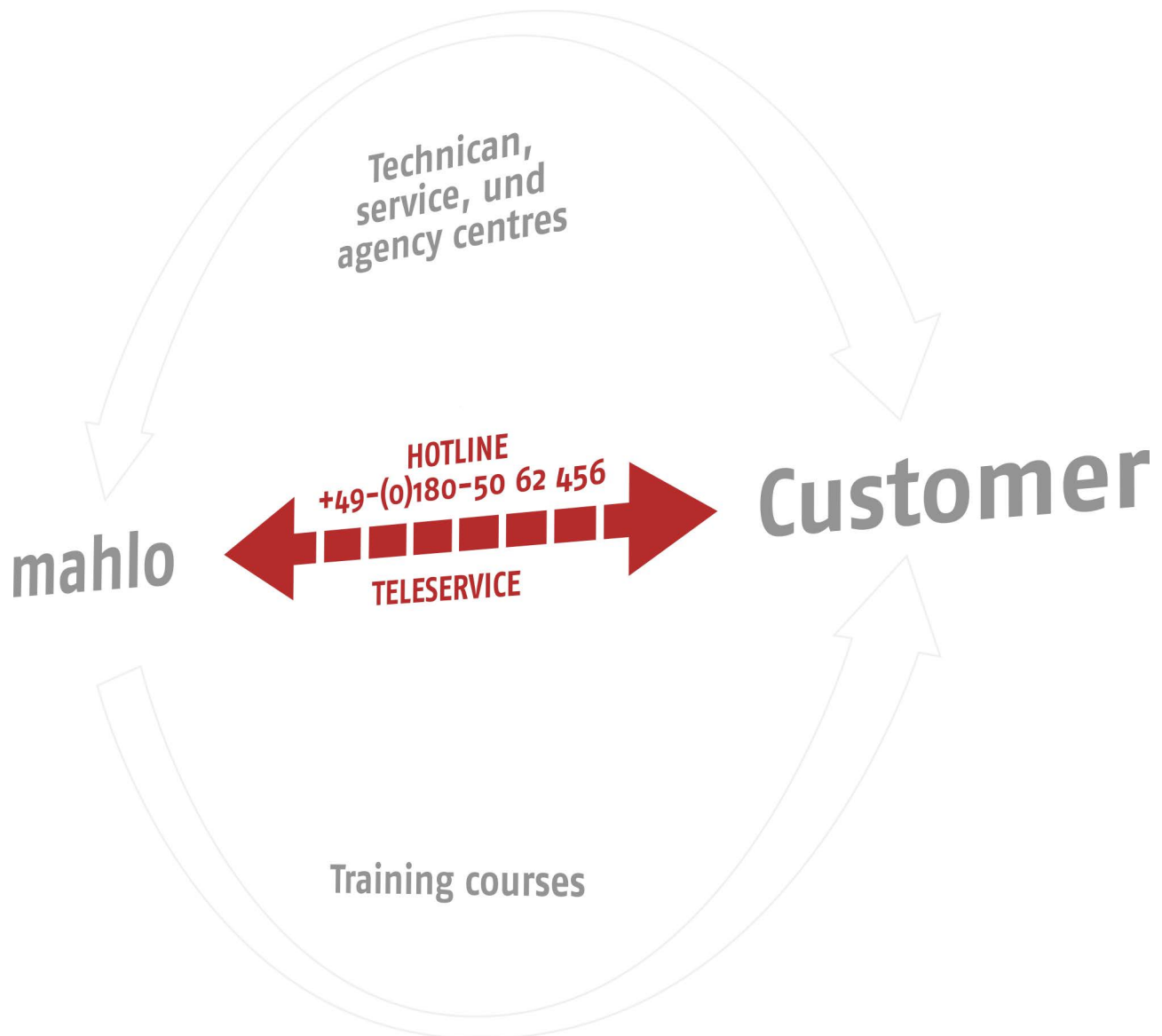
### With split slats

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

### With one-piece slats

- stenters
- dyeing and washing ranges
- padders
- calanders and many more

### SERVICE AND SUPPORT



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

Specification	Value	Unit
Nominal product width, minimum	1400	mm
Nominal product width, maximum	3400	mm
Guidance accuracy <sup>1</sup>	± 2.5	mm
Product speed, maximum	110	m/min
Length tension, maximum	500	N
Range of correction	± 200	mm
Temperature range	0 - 45	°C
Power supply:	3x 400	V AC
Line frequency	50 / 60	Hz
Working pressure, dry:	3-4	bar
Positioning stroke, pneumatic:	Approx. 150	mm
Drive output	0.37 (Drive mechanism as strain relief)	kW
	1.1 (Drive mechanism as strain support)	kW

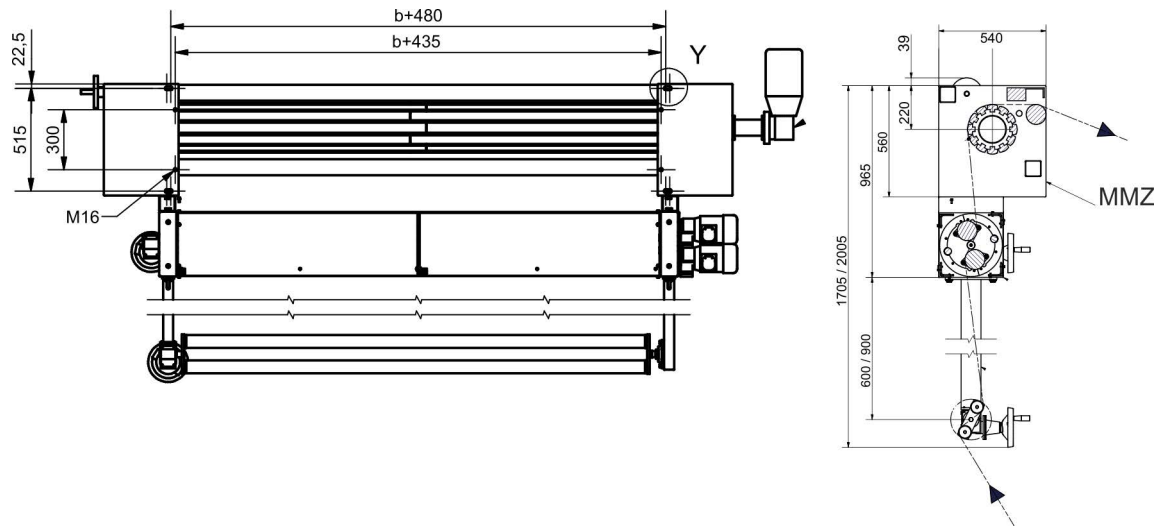
<sup>1</sup>Differential sensor, depending on the edge properties and product transparency



### 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.*

## Dimensions



*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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