mahlo

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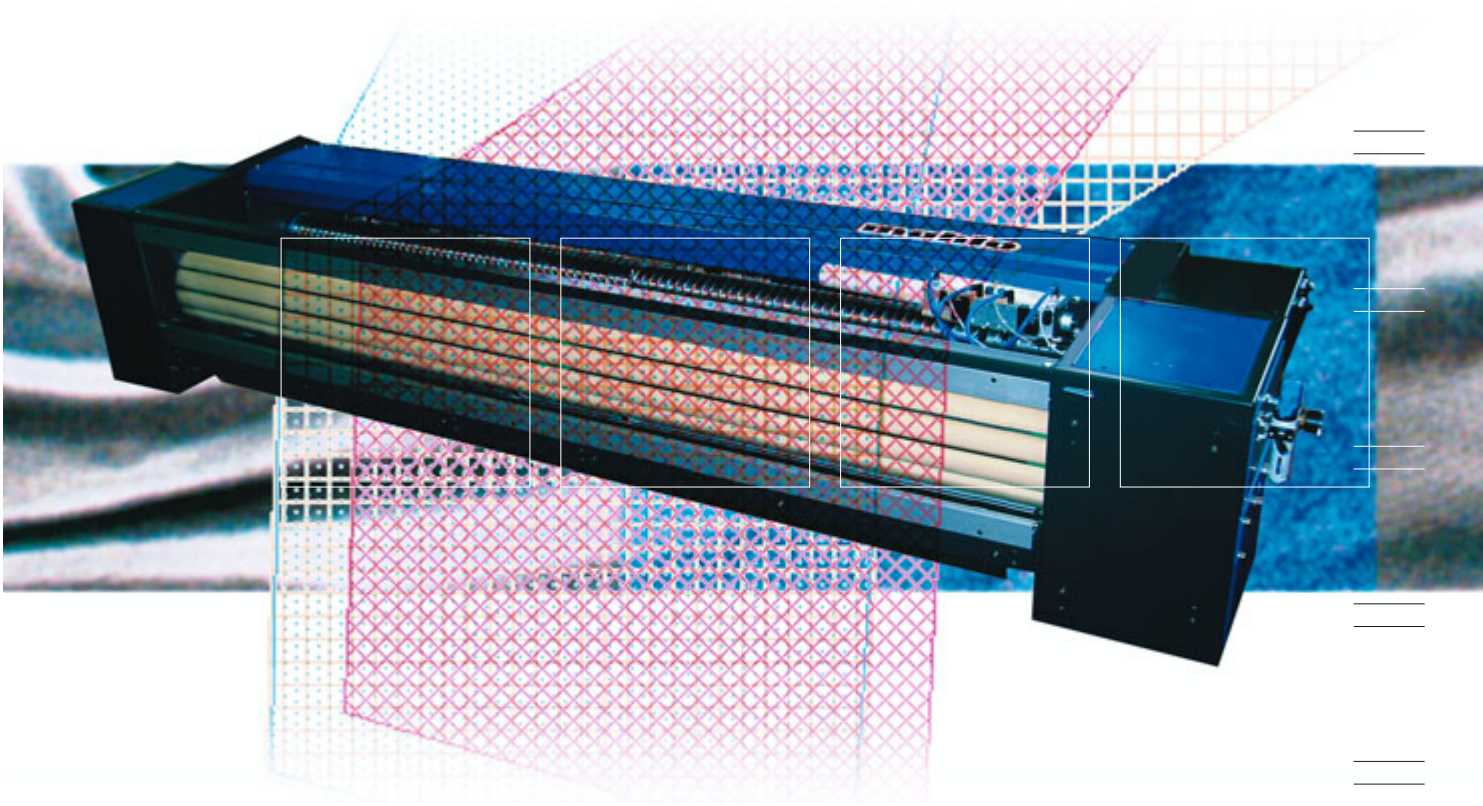


CEREMAT MMZ

Cloth-guiding system

Measurement

Control

Automation

MMZ, with expander roller,
tensionning bars and motor drive

CEREMAT MMZ

Cloth-guiding system

On a wide variety of finishing processes involving on-line textiles, the cloth will invariably tend to drift sideways without the help of some kind of system to prevent it from doing so.
This tendency can be countered with the versatile cloth guiding and spreading systems from Mahlo,.These guide the cloth in a preselected position into the machine, ensuring in doing so trouble-free processing at a subsequent stage (eg. paddern feed-side, sanforizer, minimum wastage at the selvedge cutters) and a top-quality product!

Mahlo, - noted for first-class quality and years of accumulated know-how.

A remote, broadband sensor determines the actual, lateral position (line) of the on-line 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

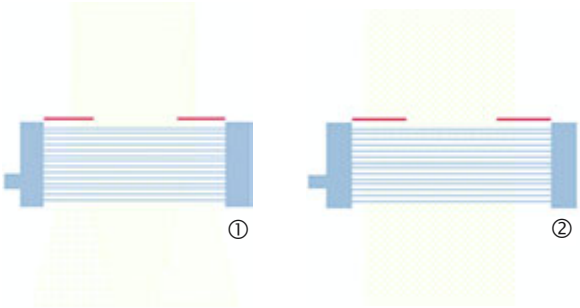
The system employs an ultra-sensitive, pneumatic actuator which, in comparison with other known pneu-matic actuators, offers distinct advan-tages:

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

Mahlo - Made in Germany!

The basic system comprises:

- Centraliser with 12 one-piece or split slats (covered accoding to require-ments
- Broadband sensor
- Pneumatic slat adjuster
- Electrics to control the system
- Control software

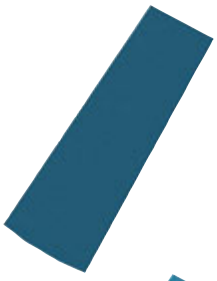


A choice of guiding-slat cover-ings to suit a variety of applica-tions!

A variety of guide-slat coverings cater for a wide range of applica-tions, and each is specifically tai-lored to suit the material being processed!

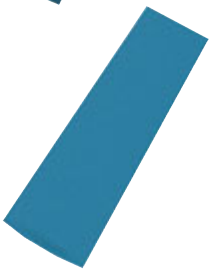
Synthetic-rubber covering

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



Mohair covering

Suitable for dry cloth only.
Materials: woven and knitted fab-rics



Plastic segments alloy

Most suitable for wet materials owing to the low-wear and corro-sion-resi-stant characterisics of the guiding slats.
Materials: wet/damp woven and knit-ted fabrics

Applications:

With split slats
- printing machines
- perches
- calanders
- laminators
- sueding and raising machines

Guiding options

① **Cloth centralizing: Broadband sensor**

The broadband sensor scans the entire width of the on-line web to determine its position laterally. The sensor thus needs no self-aligning mechanism

② **Selvedge guiding: Differential sensor**

The lateral position of the cloth selvedge is detected by an infrared sensor.

Many possible options!

- Electrical drive with free-wheeling facility
- Expander assembly comprising:
  - 2 ribbed, scroll rollers
  - motor drive
  - manual adjustment of surface contact
- Positioning roller
- Tensioning bars affording manual adjustment of cloth back-tension
- Pneumatic components
- Safety extras
- Remote control panel
- Electrical adjustment of slats

With one-piece slats
- stenters
- dyeing and washing ranges
- padders
- calanders

and many more.

Mahlo® – trendsetting technology. worldwide.

trendsetting technology. worldwide.
Overall management of Mahlo GmbH + Co. KG
and all subsidiary companies
Robert Daul Dipl.-Ing. (FH)

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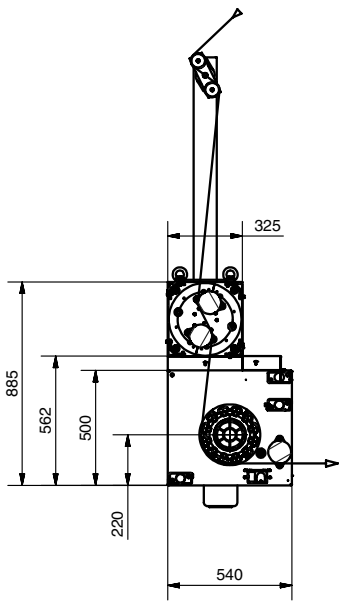
Technical data

Cloth width:	min. 1200 - max. 3400 mm
Guiding accuracy:	± 2,5 mm (differential sensor) (subject to nature of selvedges and product transparency)
Line-speed:	110 m/min (max.)
Error correction limits:	± 200 mm
Ambient temperature:	0 - 45°C (without cooling plant) electronic components and electronic panel
Power supply:	230/400V AC 50Hz
Control voltage	24V DC
Safety standards	IP54
Motor drive	side right
Working pressure:	3-4 bar, dry
Pneumatic variable stroke:	ca. 150 mm
Traction drive:	without drive (relieves tension) 0,37kW
	with drive (sustains tension) 1,10kW

Dimensions-side elevation



Dimensions-front elevation (eg. segmental roller assembly with scroll (upper) and tensioning (lower) rollers)