

Electronic tensile force measuring unit for foils and films

Type: M 1160

Electronic tensile force measuring unit for papermachine clothings, felts, foils, films, sieves and woven materials



Increase the quality of your felts and reduce your costs by maintaining the proper tension:

- The drying rate increases
- Lifespan extends
- Product equability gets improved

For optimizing your clothing precise tensile force measurement with reproducible values is the basis.

With our measuring unit M1160 series we meet the request for a handy combination of an instrument and a measuring head.

Operation:

- The measuring head is lightly pressed against the material to be measured.
- The measured tensile force is indicated digitally on the display unit DMS-TENS.

Measured value display:

- The tensile force per 1 cm measured material width is indicated as measured value.
- Measuring range: from 0,1 daN/cm to 19,99 daN/cm in 0,01 daN/cm steps. Measuring accuracy: +-1%.
- The indication instrument DMS-TENS can be connected to the measuring head by a cable length 2 m (as shown on the picture), or it can be mounted stationary on the measuring head.
- The measuring unit is factory calibrated.
- Calibration can also be effected by the customer on-site with measured material.

Measuring ranges:

Most measuring tasks can be solved by the standard measuring unit with large measuring range up to 20daN/cm. The indication instrument DMS-TENS provides an analogue output signal of 0-1V in the process.

For an analogue output signal from 0-1V and tensile forces from 0 to 10 daN/cm or 0-5 daN/cm we also offer the tensile force measuring device identical in construction.

For measuring tensile forces < 20 N/cm the type series M 160 N is optimized.

Characteristics:

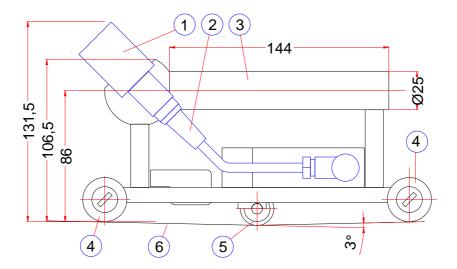
- The 2,5 cm wide sensor roller which is located in the middle of the measuring head is deviating the measured material by only 3° from its straight line, so any damage at the material is eliminated.
- The spiral-shaped groove in the outer rollers stabilizes the run even at high speeds
- All rollers are running in ball-bearings.
- The measuring head is splash-proof

Dimensions Measuring head type M 1160, with mounting tensile force indication instrument DMS-TENS

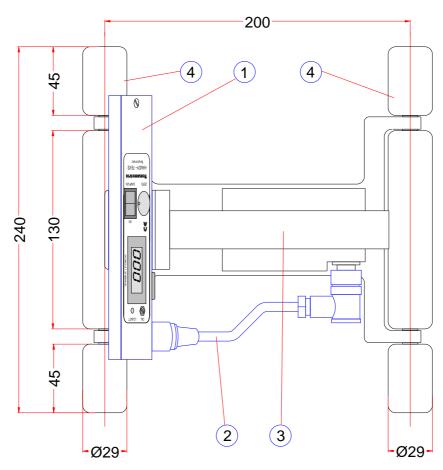
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Side view:



Top view:



Legende:

- Tensile Force Indication Instrument DMS-TENS Connecting cable
- 1 2 3 4 5 6 Handhold
- 6 Rollers on 2 axles Sensor Roller, width only 25mm
- Measured material