

FELTEST

equipment



Tensio+

Feltest Equipment BV, professional instruments for Paper Machine Clothing

3 Good reasons to measure PMC tension with the Tensio+

1. Monitoring the fabric tension helps to improve the productivity.
2. Accurate & repeatable results, independent of the operator.
3. Forming -, pressing or dryer fabrics – always accurate!

Correct tension = better runnability

Paper Machine Clothing running at in-correct tension has a negative effect on the machine's runnability. Too low tension will decrease the fabric's stability, resulting in wrinkles and unplanned fabric changes. Too high tension influences the fabric mesh (which changes the dewatering behavior), increases the load on bearings and rolls and can result in torn fabrics.

An uneven tension over the machine width can affect the paper profile and will guide the fabric to one side, where the counter-steering of the guiding roll results in wear and uneven permeability of the fabric.

Reliable results – independent of the operator!

The Tensio+ has a special 3 sensor technology to assure accurate and repeatable results under all circumstances, independent of the operator. Immediately when both the contact sensors on the front and rear-end are activated, the Tensio+ stores the test result. Pushing the instrument too hard into the fabric will have no effect as the result is already stored. Additionally, the Tensio+ gives the operator feedback on the quality of the measurement, supporting the users to obtain even better results the next time.

Excellent results on all types of Paper Machine Clothing

The fabric's or felt's stiffness influences the accuracy of a tension measurement. To compensate for this, the Tensio+ uses three separate calibrations. Calibrations for forming fabrics, press felts and dryer screens are included, but each one can be customized for example for new PMC products.



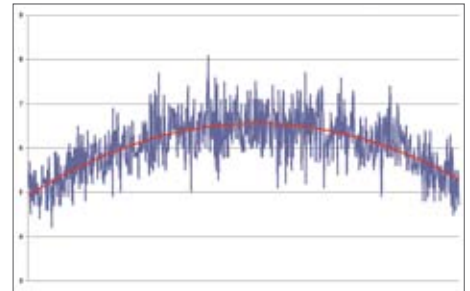
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Full width tension profiles on the fly!

The Tensio+ enables you to make full-width tension profiles of running forming fabrics and press felts and with some restrictions (due to the Electro Static Discharge) also on running dryer screens. This gives you unique information on the fabric or felt behavior under the same dynamic conditions as the paper is being produced! For further analysis and presentation simply drag & drop the data into any spread sheet application on your PC.



Designed for the Paper Industry

The Tensio+ is, like all other instruments of Feltest Equipment BV, developed by people who deal with the Paper Industry every day. It withstands spray water, dust and mechanical shocks. The bright screen is clearly visible, even under the wettest conditions. And for better safety, the Tensio+ is controlled with one hand, so you will have the other hand free to hold yourself.



The Tensio+ comes with:

- Calibrations for forming fabrics, press felts and dryer screens.
- User interface in English and German, other languages on demand.
- A sophisticated carrying case.
- Universal battery charger.
- USB cable for the connection to Windows™ PC's.
- Instruction manual in English.

Specifications

Tensio+

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| Measuring principle | Non-moving load cell combined with contact sensors |
| To be used on | Forming fabrics, press fabrics, dryer screens |
| Calibrated tension range | 1.5 – 15 N/mm (forming fabrics), 1.5 – 8 N/mm (felts & dryers) |
| Accuracy (point measurements) | ± 5% or ± 0.1 display unit (whatever is greater) |
| Units | N/mm, kN/m, kg/cm, pli |
| Safety features | One hand operation; measures in any position |
| Protection | IP 64 (splash water proof), corrosion resistant materials |
| Dimensions L x W x H | Approx. 280 x 100 x 170 mm |
| Weight (including carrying case) | Approx. 1.2 kg (4.0 kg) |
| Display | Color TFT screen |
| Power | NiMH battery pack – charger included |
| PC interconnection | Windows™ Mobile Device – USB cable included |



Performing measurements of any kind on running paper machines is potentially dangerous and requires alertness, concentration and common sense. The products of Feltest Equipment BV are designed and constructed to be as safe as possible for their intended use. Feltest Equipment BV cannot be held responsible or liable in any way for injuries or damages that occurred using Feltest Equipment BV's products.