

FabricProfiler™

Measure the forming fabric tension
and calliper profiles over the full width





FabricProfiler™

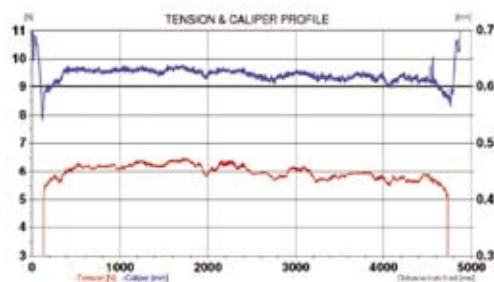
Feltest Equipment BV, professional instruments for paper machine clothing.

3 good reasons to use the Feltest FabricProfiler™:

1. Make full-width profiles of calliper and tension.
2. Zoom-in on areas that require extra attention.
3. Optimize the quality, productivity and performance.

The fabric tension and calliper significantly affect the paper profile

Looking at the whole paper machine, the forming section removes about 80% of the water. Irregular fabric properties lead to irregular dewatering of the sheet. If the fabric

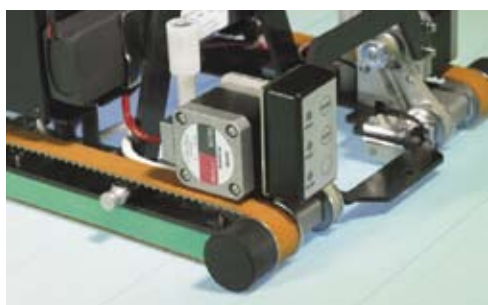


tension differs in a certain area, the dimensions and shape of the dewatering holes will change. Fabric calliper variations influence the drainage speed. These variations give differences in sheet dryness, strength and for example printability. The Feltest FabricProfiler™ is the tool to check the uniformity of the fabric; both in the paper machine as during fabric production!

The FabricProfiler™ in the paper machine

The drainage characteristics of the forming fabric are affected by many factors in the paper machine. Just think of the dewatering elements, the applied vacuum, the high pressure showers, the number of rolls and the condition of the roll clothing. Sometimes also the production quality of the forming fabric itself is a point of discussion. One of the main advantages of the FabricProfiler™ is that it produces profiles while the fabric is still wet and tensioned in the paper machine; very comparable to the working conditions. Deviations can be localized far more precise than using a lab

report of a tensionless and shrunken fabric sample. A measurement with the FabricProfiler™ during a machine stop produces extremely valuable information and enables immediate corrective actions!



High-grip, non-marking drive concept.

Much care is given to the drive concept: the special soft-rubber caterpillars are absolutely marking free. Due to its well-balanced design, high-grip caterpillars and stabilizing counter plate it can run on slopes of up to 15°, even on wet forming fabrics.

Zoom in on the details

The FabricProfiler™ can be fitted with an optional digital camera. With built-in lighting and a macro lens the camera makes crystal clear, high quality pictures of the forming fabric. Even details like wear burrs can be visualized. The FabricProfiler™ is fully remote-controlled. It can be driven in all directions with variable speed and the camera can zoom in or out. The camera streams



Wear burrs.

pictures to the controlling laptop computer, enabling a full visual inspection of the fabric.

The FabricProfiler™ in fabric production

In the production process of forming fabrics the heat setting is a critical step in stabilizing the yarn materials and the fabric's tension

profile. But also small deviations in a weaving loom can have a noticeable effect on the quality of the forming fabric.

Already several forming fabric suppliers are using the FabricProfiler™ in their production and quality assurance departments.

The quickly obtained full-width profiles will help to increase the control on production processes like weaving, heat-setting and grinding. The supplied software includes a FFT analysis tool to capture repetitive variations.



Quality control in fabric production.

Designed for the paper industry

The Feltest FabricProfiler™ is, like all other instruments of Feltest Equipment BV, designed by people who deal with the paper industry every day. The FabricProfiler™ has been developed by a team of professionals, involved in forming fabric production and quality control, service engineers and paper makers.

The Feltest FabricProfiler™ comes with:

- The remote controlled base unit to make tension and calliper profiles
- PC software
- Universal battery charger
- All necessary cables
- Instruction manual
- Robust flight case

Optional:

Digital camera with 18x optical and 12x digital zoom.



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.

Specifications FabricProfiler™

	Calliper	Tension
Measuring range	0.5 – 1.5 m	5 – 15 N/mm
Measuring accuracy	± 0.01 mm	± 0.1 N/mm
Measurement speed	Up to 6 m/min	
Measuring resolution	8/mm	
PC connection	WLAN (WiFi)	
Rechargeable battery	Li-ion	

Specifications optional camera

Optical zoom	18x
Digital zoom	12x
Graphical resolution	640 x 480 pixels
Lighting	Built-in LED ring lighting



Dimensions and weights

FabricProfiler™ dimensions	L 330 x W 260 x H 216 mm
FabricProfiler™ weight	approx. 5 kg
Camera dimensions	L 80 x W 77 x H 177
Camera weight	approx. 0.8 kg
Dimensions of a complete set including robust flight case	L 640 x W 260 x H 510 mm Weight max. 21 kg (including camera unit)