

Seam Tech Fabric Scanning Profiler

FAST

FABRIC SCANNING PROFILER

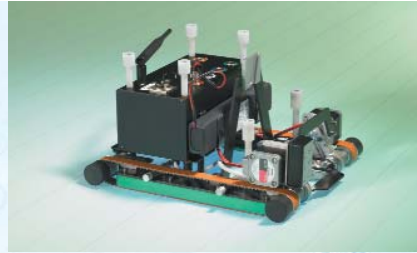
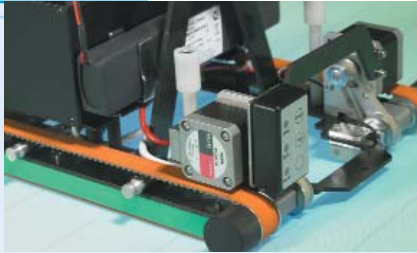
– zeroing in on the fabric profile

Forming fabric production processes are only efficient when all components function perfectly. The same applies to paper-making.

The interaction of the fabric parameters that relate to drainage, sheet formation and paper quality are especially important. The fabric's tension and caliper

profile are important parameters when it comes to defining the drainage and formation process. These parameters can be closely examined on forming fabrics already installed on operating paper machines using a Fabric Scanning Profiler (FSP), the new, uniquely configured measuring instrument designed by Wangner's SeamTech division.

The Fabric Scanning Profiler provides precise information about the quality and runnability of your forming fabric, which is important data needed to optimize your processes.



*A look at the frame
(photo 1), the modular
construction (photo 2)
and the drive technology*

FABRIC SCANNING PROFILER

MODULAR CONFIGURATION FOR UNIVERSAL APPLICATION

The Fabric Scanning Profiler is an enhancement of our Fabric Scanning Device (FSD) with significant improvements in user friendliness and drive functions. The new FSP measuring instrument is mobile, can be remotely controlled and steered, and can therefore be applied anywhere. Measuring runs can be performed at a slope of up to 15°. All functions are controlled over a WLAN. This makes it possible to perform a

detailed and reliable analysis of the forming fabric or other machine clothing components directly on site during a brief machine shutdown, then output and store the data. The Fabric Scanning Profiler's modular configuration is selected according to its intended application and is offered in two versions:

- FSP with measuring module to measure fabric caliper and fabric tension
- FSP with camera module for visual inspection of the fabric surface



The basic FSP device with the measuring module and the camera module.

PLUSSES RELATE TO PRODUCTIVITY AND PAPER QUALITY

The Fabric Scanning Profiler's innovative measuring technique shows the effect of the running machine on the fabric. Top productivity and paper quality can be achieved by continuously optimizing the fabric to align with the machine's characteristics.

- precise, data-supported determination of the forming fabric's tension and cross-profile before changing the fabric
- easy monitoring of all key data
- direct documentation and interpretation of the measurement results for quick, precise problem analysis
- capture of periodic profile problems using an FFT analyzer
- camera module for visual inspection of any point on the fabric
- reliable determination of the remaining life of the clothing
- extremely user-friendly
- modular design suitable for customized applications

*This diagram shows the tension-
and cross-profile of a forming fabric.*



VISUAL MONITORING OF ANY POINT ON THE CLOTHING

The camera module represents a further advantage of the Fabric Scanning Profiler, giving it a unique performance range. The forming fabric can now be examined anywhere the user chooses. It is possible to visually monitor the fabric surfaces (running side and paper side) on a continuous basis. The camera module consists of a digital network camera

with a macro lens and LED ring light. It can be easily installed on the FSP. The WLAN interface enables the Fabric Scanning Profiler to be precisely guided to the area to be examined. The pictures taken there can be immediately analyzed, processed and stored. The process of finding a solution or making a decision is fast and traceable.



Pictures of the camera



SPECIFICATIONS

Dimensions (LxBxH)	330 x 260 x 216 mm	Measuring range	
Weight	approx. 5 kg	• Caliper measurement	0.5 – 1.5 mm
Battery	Li-Ion	• accuracy	± 0.01 mm
Battery life	1,5 hours	• Tension measurement	5 – 15 N
Battery charger input voltage	100 V – 240 V at 50/60 Hz	• Tolerance	± 0.1 N
Measurement functions		Measurement speed	4m/min
• Fabric tension / cross profile	in daN	Scanning rate	0.15mm
• Fabric caliper / cross profile	in mm	Resolution	8/mm
Analysis feature		Applications	Forming fabric production, Paper machine
• Fast Fourier Transformation		Measured object	Forming fabrics

Data transmission:

A WLAN interface provides a means of data transmission from the FSP to a desktop computer or laptop.

Minimum specifications for the computer/laptop:

• Operating system	Windows 98 /Me /NT 4.0 / 2000 / XP
• Processor	Pentium III 500MHz or higher
• RAM	min. 128 MB
• Disk drive	CD-Rom drive 8x or higher
• Monitor resolution	min. 800 x 600
• Web browser	Internet Explorer 5.5 or 6.0
• Interface	WLAN Interface

Camera:

Dimensions	80 x 77 x 177 mm
Weight	800 g
Zoom	18-fach optical 12-fach digital
Resolution	640 x 480
Lens	f = 1.4 mm bis 50 mm

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If you need additional information or have any questions about the new Fabric Scanning Profiler (FSP), you can reach us by phone, fax, e-mail or by contacting one of our people directly. We look forward to discussing your needs and will be happy to provide a quotation.