



Innovation Award Winner!

FOR "NEW PRODUCT" CATEGORY
@ TECHTEXTIL NORTH AMERICA 2024:



Haptic and optical data automatically digitized and stored in the cloud used for quality assurance and as virtual market place.



TSA TACTILE SENSATION ANALYZER

An instrument to objectively measure the parameters that determine the overall haptic quality of textiles.





NEXT GENERATION

SOFTNESS MEASUREMENT



CLOUD-BASED

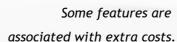
HAPTIC QUALITY

Objective measurement of:

- softness
- smoothness
- flexibility + elasticity
- · recovery behaviour
- = hand feel calculation is possible
- + surface thermal conductivity (warm vs. cold handshake)
- + thermal insulation
- + high resolution picture



access to the cloud-based haptic library





The Tactile Sensation Analyzer captures the digital haptic parameters of the samples in a fabric library. A user can measure a development sample or use standardized key descriptors to search the database for existing fabric matches, eliminating wasted time due to sample confusion, long shipping routes, unclear descriptions or language barriers.

The Virtual Haptic Library enables brands to communicate numeric haptic specifications and mills to verify compliance for each fabric without shipping samples around the world. Samples can be compared to a "digital standard" and objectively QC'ed for acceptability.

The cloud-based haptic library:

- improves supply chain communication
- accelerates fabric development
- assures product quality
- reduces courier costs required to send development samples
- reduces the environmental footprint





TECHNICAL DATA

device dimensions $40.3 \times 18 \times 35.5 \text{ cm } (\text{H x W x D})$

device weight approx. 15 kg

power supply 100-240 V AC, 50/60 Hz standard sample dimension \varnothing 11.28 cm = 100 cm²

materials base and finished products of nonwovens and textiles,

even material of unusual shape

SOFTWARE

Emtec Measurement System EMS

& access to the Virtual Haptic Library via a license



The TSA measuring instrument and measuring method are internationally patented and protected.



