

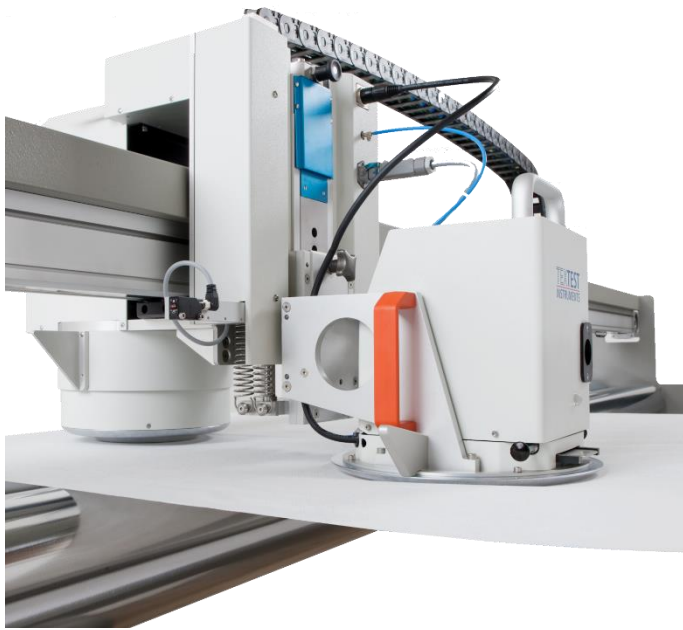
FX 3500 CombiScan

Online-Tester

TEXTTEST
INSTRUMENTS

FX 3500 CombiScan with many Benefits

The FX 3500 CombiScan is used for continuous measurement of the air permeability, pressure drop, air flow resistance and – optionally – the thickness at the moving web. The instrument is typically integrated directly into the production or inspection line. The traversing test head provides a zigzag profile of the selected test parameter in real-time. After termination of a measurement, a comprehensive and well-arranged protocol is generated.



✓ **Benefit thanks to modular design**

The FX 3500 CombiScan can be supplied in different versions. The stand-alone model with frame, feet and idle rollers allows for simple and time-saving commissioning, while the compact model is the preferred solution if space is limited. In this case, the guide rail is mounted directly to the frame of the production machine.

✓ **Benefit thanks to results in real-time**

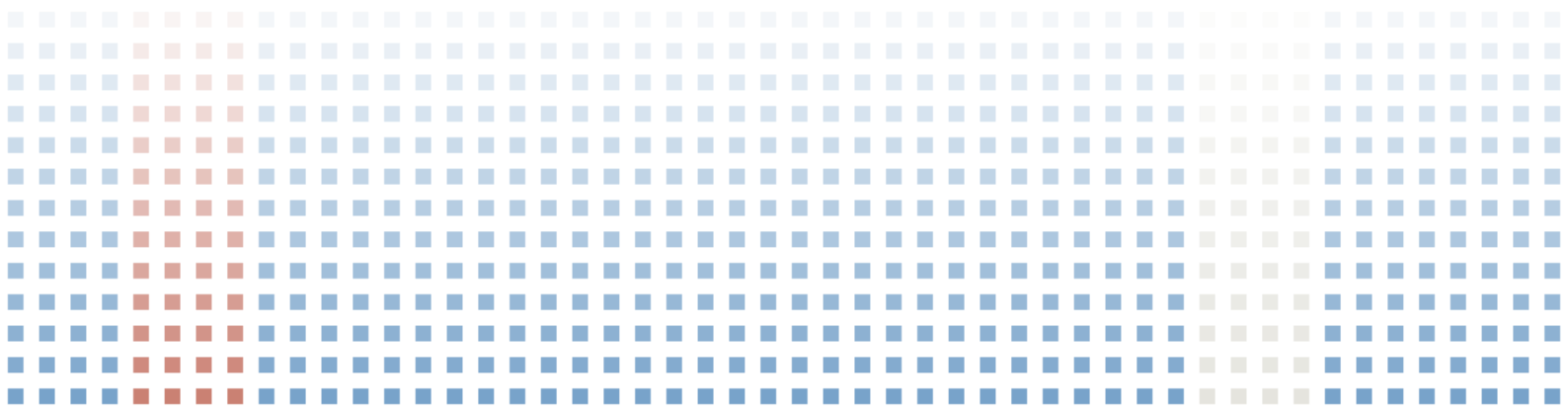
The test results are available in real-time, i.e., at a time when the production process can still be influenced. The added value of this is avoidance of waste, faster setup of the production line after a style change, reduction of labor cost and, especially, improvement of the overall quality.

✓ **Benefit thanks to well-arranged and flexible evaluation**

The measuring results are continuously displayed graphically and numerically on the computer screen. A permanent comparison with the nominal range makes any out-of-spec deviations visible at one glance. For automated control of the production line, the results are available in different formats. The connection to the PLC of the production machine can be accomplished via analog signal, XML-file or fieldbus.

✓ **Benefit thanks to high accuracy**

The instrument provides reliable test results even at high line speeds. Highly accurate sensors guarantee very good accuracy and an excellent reproducibility of the measurements.



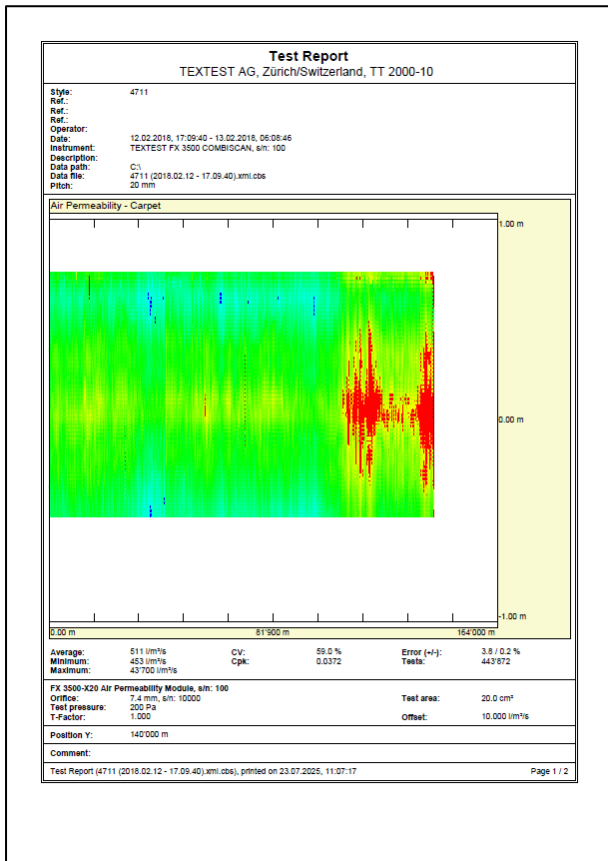


✓ **Benefit thanks to short response time**

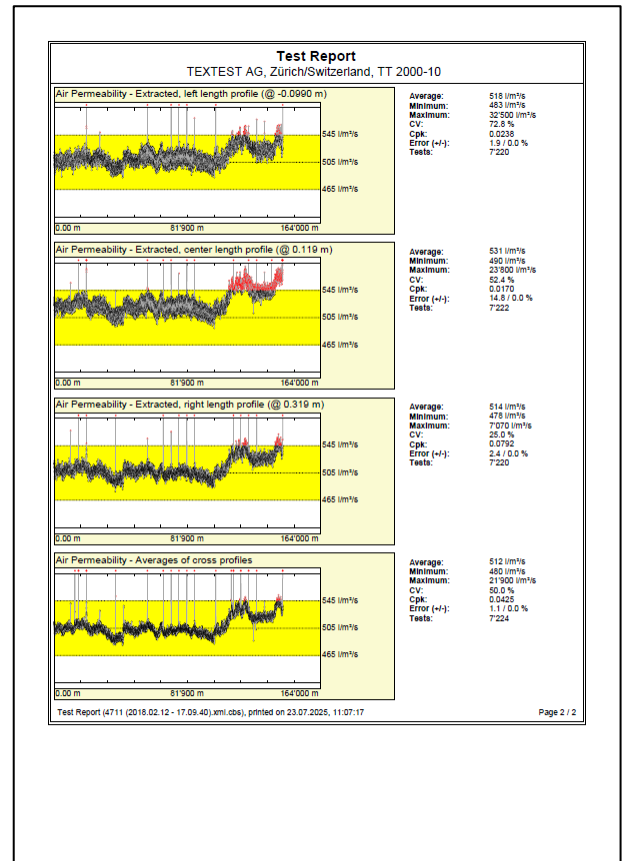
The combination of the measuring principle and the measuring technology leads to an extremely short response time of only a few milliseconds.

✓ **Benefit thanks to perfect correlation**

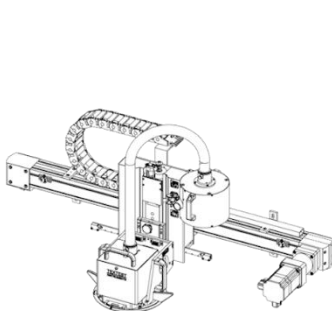
The FX 3500 CombiScan utilizes the same measuring principle as the TEXTEST laboratory instruments. Therefore, the results correlate perfectly with the test results from the laboratory.



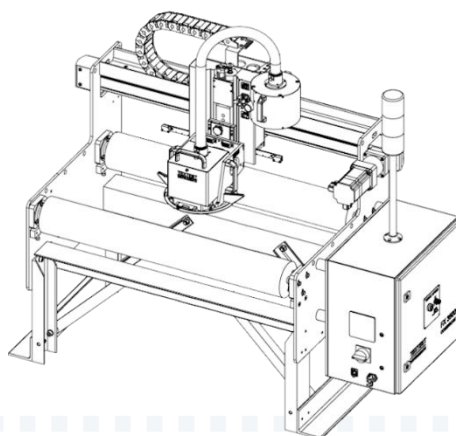
Comparison with the nominal range for the entire roll



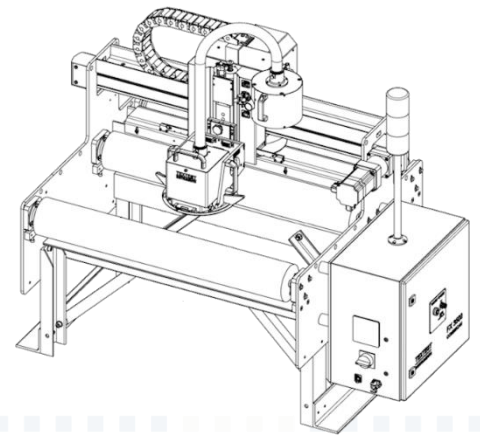
Extracted length profiles



FX 3500-T0 : Compact



FX 3500-T2



FX 3500-T3 : Thickness



Technical Specifications

- Air Permeability**

| | |
|----------------------|--|
| Measuring range | ca. 1 ... 5'000 mm/s (0.2 ... 1'000 cfm) |
| Test area | 20 cm ² |
| Test pressure | 98 ... 500 Pa |
| Units of measurement | mm/s, l/m ² /s, l/dm ² /min, l/cm ² /h, dm ³ /h, cm ³ /cm ² /s, m ³ /m ² /h, m ³ /m ² /min, m ³ /m ² /s, cfm (ft ³ /ft ² /min) |
| Measuring accuracy | ±3 % of the displayed value |
- Pressure Drop**

| | |
|----------------------|--------------------|
| Measuring range | 20 ... 2'500 Pa |
| Test area | 20 cm ² |
| Air velocity | 0.001 ... 10 m/s |
| Units of measurement | Pa |
- Air Flow Resistance**

| | |
|----------------------|-----------------------|
| Measuring range | 0.02 ... 250'000 Rayl |
| Test area | 20 cm ² |
| Air velocity | 0.001 ... 10 m/s |
| Units of measurement | mks Rayl, cgs Rayl |
- Thickness**

| | |
|----------------------|--|
| Measuring range | 0 ... 6 mm |
| Test area | 10, 20 or 25 cm ² |
| Contact force | 100 ... 500 cN |
| Units of measurement | mm, µm, mil |
| Measuring accuracy | ±0.02 mm ±0.5 % of the displayed value |
- General**

| | |
|--|--|
| Test point pitch | 1 ... 100 mm (0.04 ... 4 in) |
| Max. measuring rate per test head | 1'000 test points/second |
| Max. material width | 4'000 mm (larger widths upon request) |
| Max. traversing speed of the test head | 20 m/min |
| Compressed air supply | 6 ... 8 bar |
| Power requirements | Single phase 230 V, 50 ... 60 Hz, 2 kW |
| Max. material temperature | 60 °C |
| Max. ambient temperature | 50 °C |
| Type of protection | IP40 |

Subject to change.

The computer for control of the instrument as well as for display, evaluation, documentation and storage of the test results is not part of the scope of delivery. The required software however is.

A certificate of calibration in compliance with ISO/IEC 17025:2017 is included with each FX 3500 CombiScan.



SWISS CALIBRATION
SERVICE