

TESTING INSTRUMENTS FOR QUALITY CONTROL 



FX 3500 CombiScan

On-line 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-specs deviations visible at one glance. For an 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 for a 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 milliseconds.

Benefit thanks to perfect correlation

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

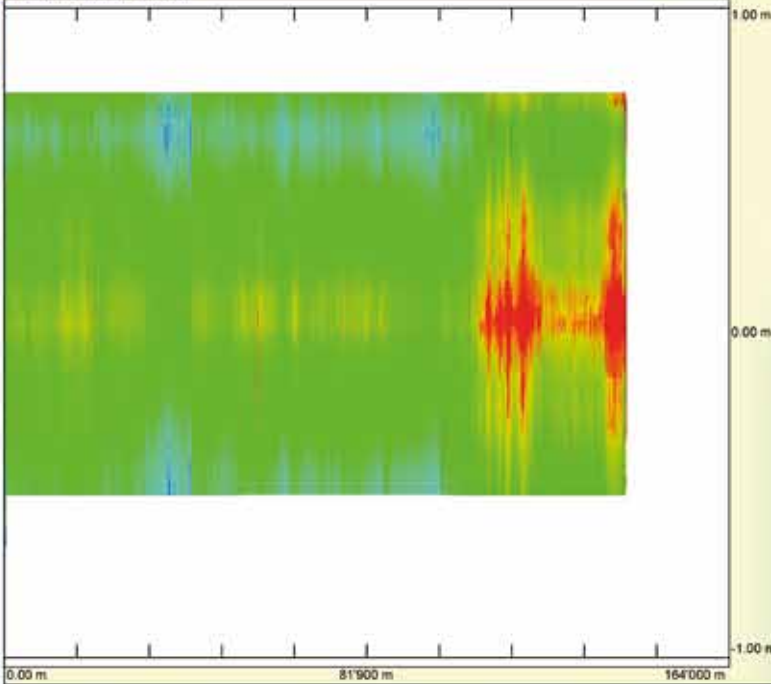
BENEFITS AT A GLANCE 

- Modular design
- Results in real-time
- Well-arranged and flexible evaluation
- High accuracy
- Short response time
- Perfect correlation

Test Report
 TEXTEST AG, Zürich/Switzerland, TT 2000-10

Style: 4711
 Ref.:
 Ref.:
 Operator:
 Date: 12.02.2018, 17:09:40 - 13.02.2018, 06:08:46
 Instrument: TEXTEST FX 3500 COMBISCAN, s/n 098
 Description:
 Data path: P:\Programme\FX 3500 COMBISCAN\Software Textest\Messdaten
 Data file: 4711 (2018.02.12 - 17.09.40).xml.cbs
 Pitch: 20 mm

Air Permeability - Carpet



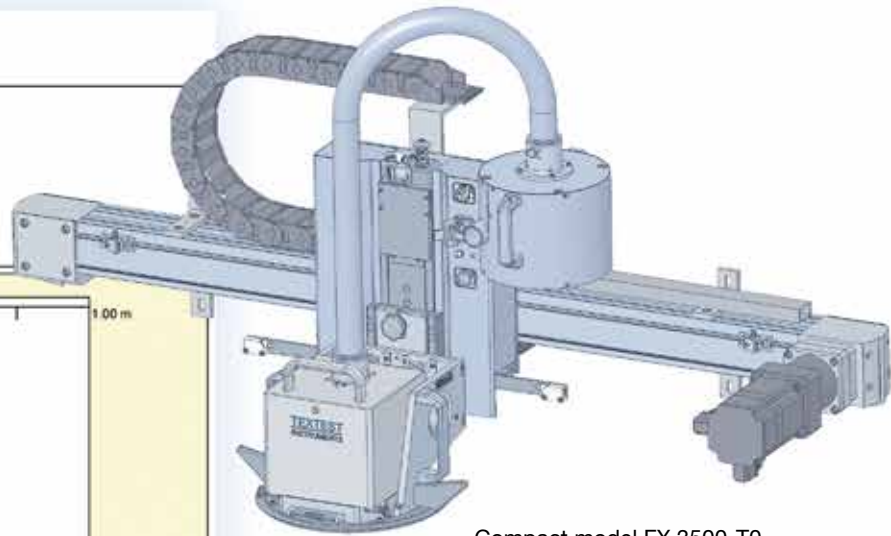
Average:	511 l/m ² /s	CV:	74.2 %	Error (+/-):	3.6 / 0.4 %
Minimum:	443 l/m ² /s	Cpk:	0.0300	Tests:	471'048
Maximum:	111'000 l/m ² /s				

FX 3500-K20 Air Permeability Module, s/n 099		Test area:	20.0 cm ²
Material:	Standard	Orifice:	7.4 mm, s/h 12
Test pressure:	200 Pa	Offset:	10.000 l/m ² /s
T-Factor:	1.000		
Position Y:	140'000 m		
Comment:			

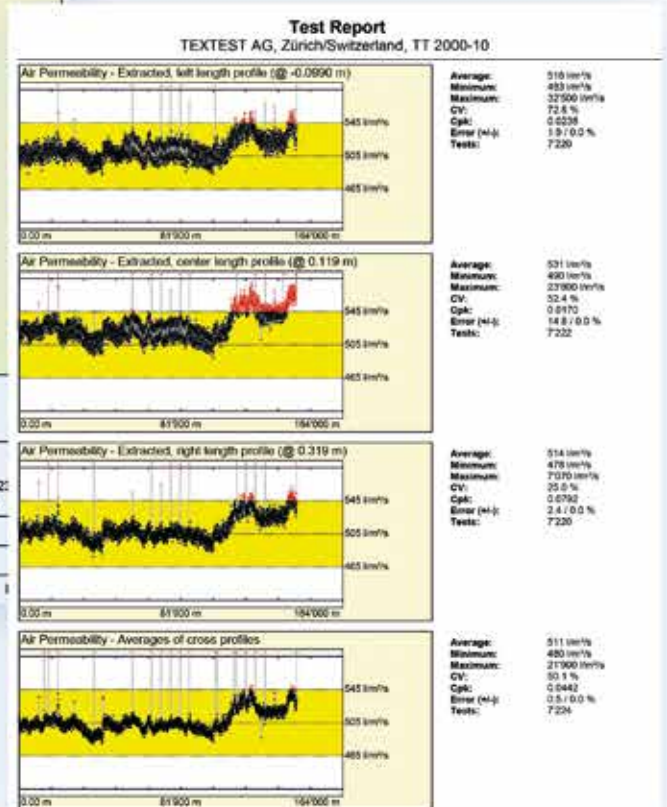
Test Report (4711(2018.02.12 - 17.09.40).xml.cbs), printed on 18.01.2022, 11:11:07

Comparison with the nominal range for the complete roll

Extracted length profiles



Compact model FX 3500-T0



Test Report (4711 (2018.02.12 - 17.09.40).xml.cbs), printed on 18.01.2022, 11:11:07

Technical Specifications FX 3500 CombiScan

Air permeability:

Measuring range:	approx. 1 ... 5,000 mm/s (0.2 ... 1,000 cfm)
Test area:	20 cm ²
Test pressure:	98 ... 500 Pa
Units of measure:	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 und 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
Unit of measure:	Pa

Air flow resistance:

Measuring range:	0.02 ... 250,000 mks Rayl
Test area:	20 cm ²
Air velocity:	0.001 ... 10 m/s
Units of measure:	mks Rayl und cgs Rayl

Thickness:

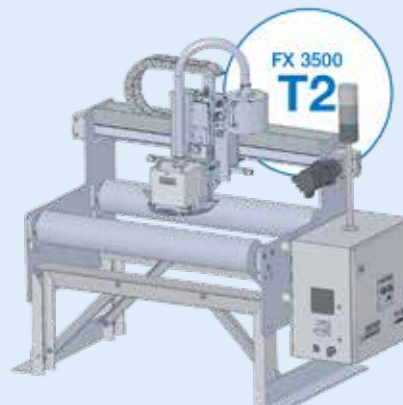
Measuring range:	0 ... 6 mm
Test area:	10, 20 or 25 cm ²
Contact force:	100 ... 500 cN
Units of measure:	mm, µm und mil
Measuring accuracy:	± 0.02 mm ± 0.5 % of the displayed value

General:

Test point pitch:	1 ... 100 mm (0.04 ... 4")
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

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 supply. The required software, however, is.

Subject to change.



SWISS CALIBRATION SERVICE