



AUTOMATIC COBB TESTER



The Automatic Cobb Tester offers a revolutionary new approach to measuring cobb values. Surpassing traditional manual methods of recording water absorption, the ACT provides a completely new and revolutionary method to measure cobb values dynamically in real-time.

Here the water uptake is continuously monitored across a full 100 cm² area of sized paper or board as a function of time. Apart from the total amount of absorbed water over 60 seconds, this technology reveals the different dynamic components of water absorption.

Once the operator has inserted the test specimen, the test is done automatically by the instrument as no weighing or blotting of the specimen is required. This way the regular operator time of three minutes for a 60 second Cobb test is reduced to only a few seconds for loading of the specimen.

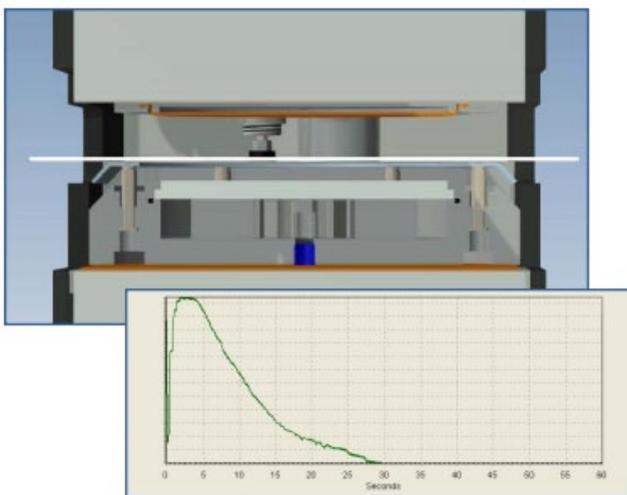
Mode of operation

The specimen is clamped in a closed chamber against a porous membrane saturated with water. The absorbed amount of water is then continuously monitored using a precision level sensor.

After a preset time (e.g. 60 seconds), the test automatically concludes and any free water on the test surface is automatically drained. Next, the clamp opens, releasing the specimen for removal quickly and easily. After a test, the specimen's cobb value is displayed together with the curve showing dynamic water absorption as a function of time.

Features

- Continuous monitoring of the water uptake in realtime reveals the dynamic absorption as it happens
- Suitable for sized paper and board
- Tests a full 100 cm² large area
- Fully automatic operation reduces operator time from several minutes to a few seconds
- No operator training required:
 - No weighing of sample
 - No blotting paper used
 - No heavy couching roll





The instrument display provides onscreen data while the test is performed, including test time remaining and current cobb value (left)

Following test completion, the porous glass disk is automatically flushed with fresh water. Surplus fresh water on top of the glass disk is then sucked back into the glass disk. Next, the glass disk rewets itself, due to capillary forces, and the instrument resets to perform the next test (below)



Technical Specifications

Signal interface:	USB, LAN 10/100, COM-ports
Test cycle time	15, 30, 60, 120, 180 seconds
Sensor resolution	0,1 Cobb
Repeatability	+/- 0,5 Cobb
Specimen size	min. 150 x 150 mm
Water supply	clean, filtered (<8 µm)
Water volume/test	< 100 mL
Air supply	6 bar
Power supply	100-240 VAC, 200 W

Dimensions

Dimensions (HxWxD)	490 x 190 x 320 mm
Shipping Dimensions	58 x 46 x 48 cm (0.13 m³)
Weight (Net/Gross)	26 /35 kgs

Specifications are subject to changes without further notice

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