

# S-Test

## MODEL 17 - 38



### The new method for CMT testing

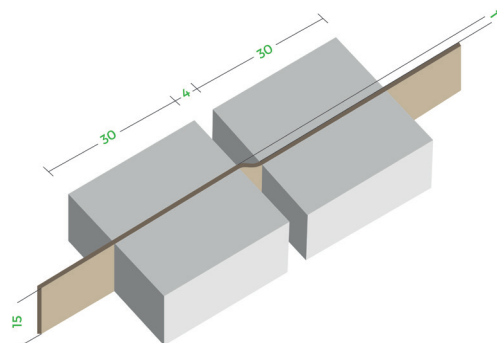
In 2018 the S-Test is developed to replace the CMT Test. The S-Test measures the compression strength of a flute. The sample is clamped on both sides with a gab of 4mm. The clamps have an offset of 1mm. The 1mm offset automatically pushes the sample in a shape that corresponds to the flute of corrugated board. In this way the shape of the flute is simulated. The sample is compressed simulating the pressure on a corrugated box. The test is finished in a few seconds and gives you the peak value. The S-Test can be correlated to the first plateau of the CMT.

### Why a new test?

The CMT test is a time consuming and error sensitive test. Especially the sample preparation takes a lot of time and is an important factor for the variation in results. Leaning flutes, bad tape and wrong flutes will influence the results. The fact that the test needs to be carried out immediately after sample preparation (or after 30 minutes for the CMT30 value) is an additional difficulty.

### Features

- Direct replacement of the CMT first plateau
- Proven test method
- No sample preparation (only cutting)
- Automatic clamping of sample
- Touch screen
- Intuitive user interface
- Unique clamping mechanism
- Statistical information
- GraphMasterPro™ compatible



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of quality**



### Proven test method

Smurfit Kappa worked for 2 years together with the members of the CCB and University of Darmstadt Büchel to prove the correlation with CMT.



### Why not the CMT test

You want to predict accurately the performance of your corrugated board. The current used CMT test has too many influences making the results less accurate



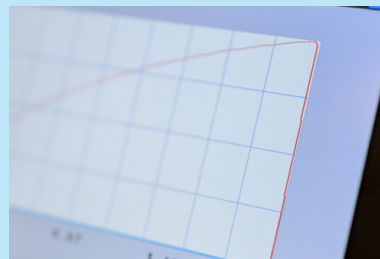
### No influence of operator

Except for cutting the sample there is no sample preparation required. This operator places the sample between the clamps and presses start.



### Cooperative development

Together with Smurfit Kappa Messmer Büchel developed the S-Test. The Cepi ContainerBoard and the Technical University of Darmstadt helped to test and prove the method.



### Correlate with CMT

The S-Test has shown a correlation coefficient of 97,6% with the first plateau of the CMT. Therefore the results of the S-Test can be used to replace the CMT test.



### GraphMasterPro™ (optional)

GraphMasterPro™ is a PC data collection program capable of providing curve analysis and data storage. GraphMasterPro can also be used to control the instrument.

### Specifications

Model	17-38 Series
Measuring units	N, kN/m, Lb and Lb/inch
Load cell range	100N or 250 N
Accuracy	less than 1% of reading
Test speed mov. Jaw	3mm/min $\pm$ 1mm/min.
Span	4mm, offset 1mm
Span accuracy	0.05 mm
Language	multiple available

### Installation requirements

Electrical	100 V-230VAC 50/60 Hz
	28 Watt
Air	600 kPa (instrument quality)
Dimensions	430 x 420 x 195mm (LxWxH), 33kg
	17 x 16.5 x 8 inch (LxWxH), 73 lbs

### Connections

RS 232, Mini USB, Footswitch connector

### Optional/ accessories

GraphMasterPro™, Cutter, footswitch,