

Article No. S53509

Stand Alone



# Puncture Tester digital

For measuring the energy absorption by dynamically puncturing board or corrugated board.

For:



## MOST IMPORTANT BENEFITS

- ✓ Robust construction with a mass of 430kg
- ✓ Sample holder with automatic quick clamping
- ✓ Frictionless pendulum bearing
- ✓ Safety Covers

 **FRANK-PTI**  
QUALITY TESTING INSTRUMENTS

SUBSIDIARY OF  *Fof Hansson*

 **M.C. TEC**

**Sales and service benelux**

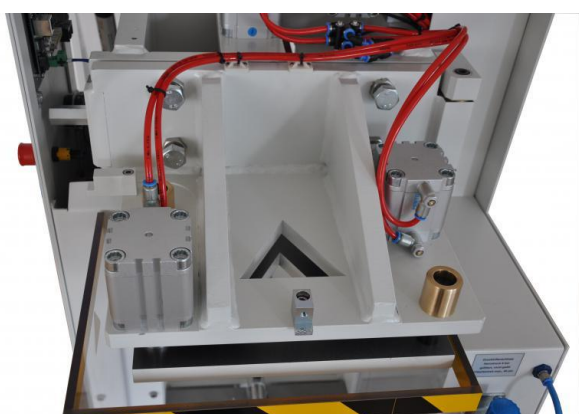
M.C. TEC  
Distributiestraat 73  
4283JN Giessen, Netherlands  
Phone: +31 0183 445050  
[www.mctec.nl](http://www.mctec.nl) | [info@mctec.nl](mailto:info@mctec.nl)

## PRODUCT DESCRIPTION

The digital, fully automatic puncture tester with a pendulum arm is used to determine the resistance of a clamped sample when dynamically penetrated with a puncture head. It measures the force required to penetrate through the sample. The execution of the test is simple and exact. All information (results, average, standard deviation, number of already executed tests, measuring scale, etc.) can be read from the digital display.

## TEST DESCRIPTION

A board or corrugated board sample is clamped into the sample holder. Pulling the two start levers releases the pendulum from its holder allowing it to puncture the clamped sample with the puncture head. The energy used to accomplish this is determined and can be read from the digital display. After the test, the pendulum arm is fully automated returned to the start position.



Specimen clamping with punch



Pendulum without masses in initial position

## TECHNICAL DATA

### DEVICE / INSTRUMENT

- External vibrations are prevented
- Specimen holder with quick clamping device
- Pendulum arm with triangular impact head
- Circular angle of the pendulum arm: 90°
- Exchangeable weights
- Digital display with a range up to 96 joules
- Included weights:
  - standard: 6 J, 12 J, 24 J, 48 J

### APPLICABLE STANDARDS

DIN 53142-1      TAPPI T803      ISO 3036  
\*more standards on request

### MEASURING

|                  |   |
|------------------|---|
| Measuring range: | Depending on Pendulum 6, 12, 24, 48,                              |
| Sample specs.:   | max. 230 x 180 x 30 mm (L x W x H)                                |
| Display:         | [J] ± 0,01  |
| Statistics:      | Min., max., Ø, SD of the series                                   |
| Accuracy:        | +/-1% of displayed value  |
| Sample clamping: | Continuously adjustable 250-1000N<br>230 x 180 x 30mm (L x W x H) |

### CONNECTIONS

|                 |              |
|-----------------|--------------|
| Power:          | 230V / 50Hz  |
| Water:          | -            |
| Compressed air: | 6 bar / 6 mm |

### DATA

|           |                    |
|-----------|--------------------|
| RS232:    | Data output        |
| Ethernet: | Data output / MQTT |
| USB:      | Updates / service  |

### DIMENSIONS

| Version        | L x H x W           |
|----------------|---------------------|
| S535090001     | 860 x 830 x 790 mm  |
| S535091005     | 840 x 580 x 520 mm  |
| Tot. with base | 860 x 1410 x 790 mm |

|                |                         |
|----------------|-------------------------|
| <b>Weight:</b> | net / gross             |
| S165020000     | approx. 430 kg / 520 kg |
| with base      | approx. 500 kg / 635 kg |

### ARTICLES / MODELS

|            |  |
|------------|--|
| S535090001 | Puncture Tester without pendulum for board and corrugated ISO 3036, 53142 including Pendulum up to 48 J with pendulum masses 6 J, 12 J, 24 J, 48 J |
| S535091005 | Mounting base (Mounting base with floor anchoring or own cement pedestal are recommended)  |