



Preparation Products

ECT Sample Saw

For the preparation of plane parallel samples for the ECT-test.

For:



✓ BOARD



MOST IMPORTANT BENEFITS:

- ✓ Accurate and plane parallel cutting due to circular saw blades
- ✓ Highspeed motor with up to 12.000 rpm adjustable
- ✓ Pneumatic cutting slide
- ✓ Automatic sample ejection

 **FRANK-PTI**
QUALITY TESTING INSTRUMENTS

SUBSIDIARY OF  Elof Hansson

 **M.C. TEC**

Sales and service benelux

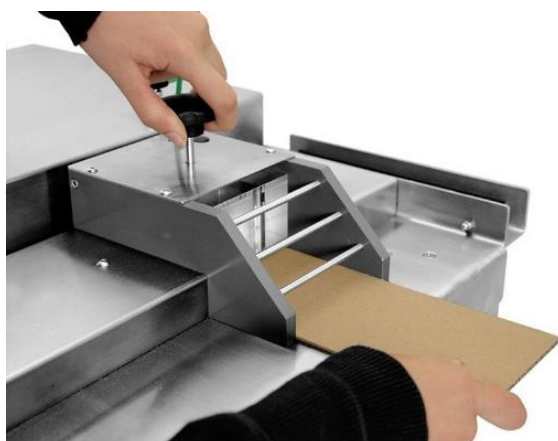
M.C. TEC
Distributiestraat 73
4283JN Giessen, Netherlands
Phone: +31 0183 445050
www.mctec.nl | info@mctec.nl

PRODUCT DESCRIPTION

The ECT sample saw is different to the regular system "Billerud" because it cuts using circular saw blades rather than a parallel blade movement. This allows a precise cut. The compact and robust stainless-steel case contains all the components necessary for the process which consist of sample slide with sample feed and integrated circular saws below, the control unit with integrated motor and controls. The sample slide travels backwards and forwards pneumatically and the cut samples are ejected by compressed air. To prevent dust there is a suction cleaner connection on the back of the unit to which the optional suction cleaner can be attached.

TEST DESCRIPTION

Corrugated board, cut to 100 mm in width, is inserted into the sample feed and automatically held in place by the binder. Motor and suction cleaner are started by simply touching a button. Then the start button is pressed to start the cutting process. The sample slide travels slowly backwards over the circular saw blades and the sample is parallel cut to exactly 25 mm. This is then ejected via compressed air and the sample slide returns to the start position. The corrugated board can then be fed further in and more samples can be cut. On completion of the cutting operation, motor and suction cleaner are switched off simply by touching a button.



Samples automatically held in place by the hold-down-device

TECHNICAL DATA

DEVICE / INSTRUMENT

- Sample cutting up to a thickness of 20mm
- Accurate and plane parallel cutting due to the circular saw blades
- Highspeed motor: up to 12.000 rpm adjustable
- Automatic cutting and sample ejection
- Automatic cleaning and dust avoidance due to suction cleaner
- Cut counter
- Optional: Suction cleaner / Exchangeable saw blades

APPLICABLE STANDARDS

DIN EN ISO 3037 ISO 13821
 TAPPI T811, T823, T838, T839
 FEFCO No. 8
 *more standards on request

SYSTEM

Feed pressure:	1-2bar
Sample specification: (Corrugated board)	100x250mm / max.20mm thickness
Display:	Operation hours [h] Amount of performed cuts Revolutions [rpm]
Noise level:	~80dB idle <110 dB cutting (depending on material)

CONNECTIONS

Electrical connection:	200-240V/50-60Hz/ 10A internal fuse
Water:	no
Compressed air	4-6 bar / 6mm

DIMENSIONS

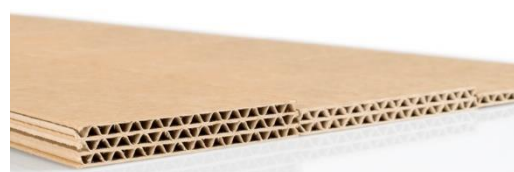
	L x H x W
S409200000	600 x 250 x 500 mm
Weight:	net 46 kg

ARTICLE / MODELS

S409200000 ECT Sample Saw

Recommended accessories:

S409201002 Suction cleaner
 S409201102 Dust bag for suction cleaner
 S409201003 Saw blades (pair) 100 x 1 x 22 / Z128
 HSS TIN, relief grinded

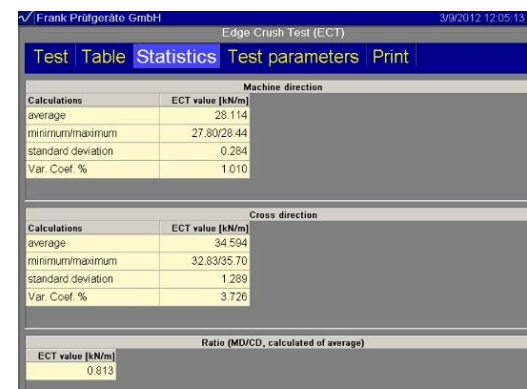
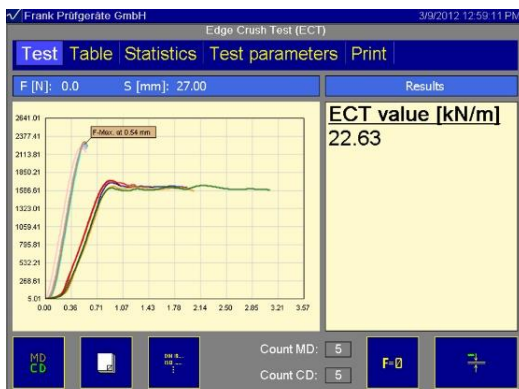
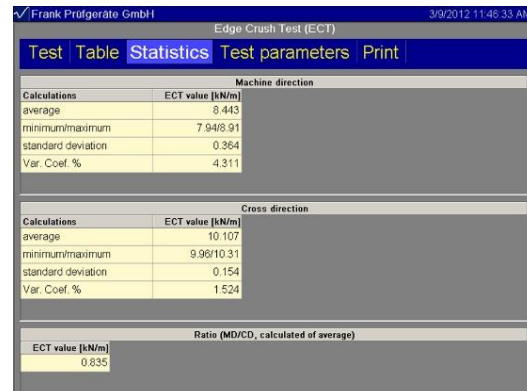


The ECT sample saw cuts samples up to 20mm thickness

ECT SAMPLE SAW vs. BILLERUD-CUTTER

The ECT Saw is provided with parallel circular saw blades instead of the cutting blades. This ensures a more precise plane-parallel cut.

The extra-long life saw blades minimise any wear, so that these will have to be changed less often. Instead of cutting the samples, resulting in compressing the edges, the ECT Saw saws through the sample and only affects minimally the cut edge. The difference can be seen especially regarding multiply corrugated board. ECT values result which are up to 30% better.



ECT SAMPLE SAW:

- Cuts samples up to 15 mm thick
- By the rotating circular saw blades the cut is more precise and plane-parallel
- More expensive to purchase but ensures savings potentials due to realistic measured values
- Highspeed motor up to 12000 rpm
- Automatic feed and avoidance of dust
- Pneumatic push
- Automatic ejection of the cut samples
- The ECT value is about 10-20% higher with the saw.
- Relief-ground saw blades for less wastage and a better cutting result especially in the case of thicker corrugated board

Conclusion:

The ECT Sample Saw may be more expensive to buy than the Billerud Cutter but it prevents deviations from real values due to its precise cut. Thus, it will save you the extensive adding of chemicals, starch, etc. in the production process as the product has already achieved the desired strength.

BILLERUD CUTTER:

- Only cuts corrugated board up to max. 6 mm.
- Blades bend in the cutting process, by what plane-parallel cuts are hardly possible
- Less expensive, approx. half the price of the saw
- Favourable price for cutting blades
- Plane parallelism is worse
- Frequent changing the blades due to high sample throughput