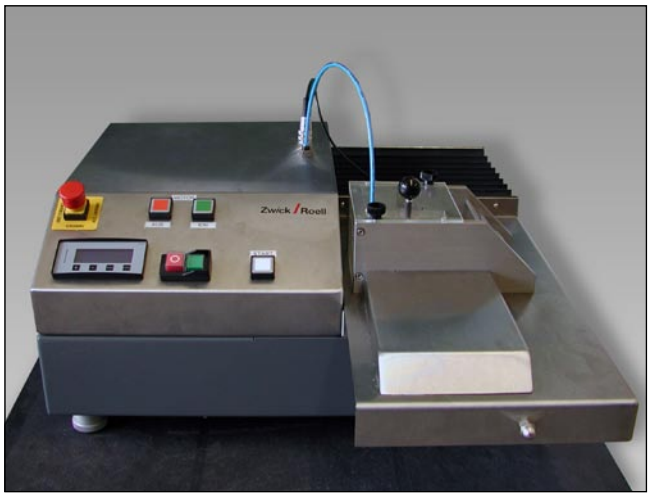
Zwick / Roell

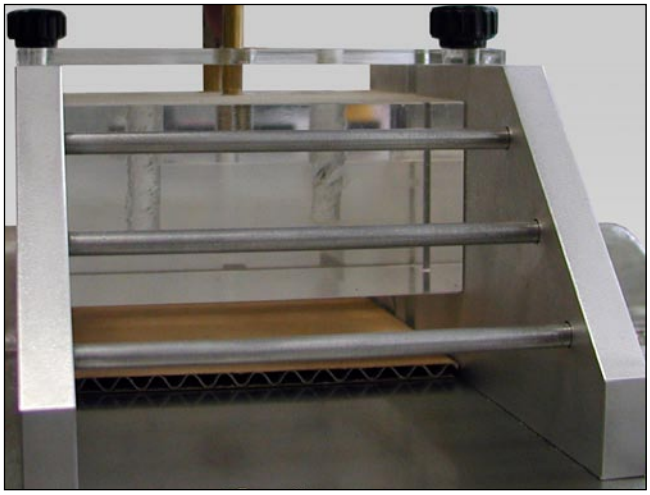
Zwick
Materials Testing

Product Information

Automatic Edge crush test (ECT) Specimen Saw



ECT specimen saw



Dead weight system for clamping the specimen

Field of application

The ECT specimen saw with automatic cutting guidance is used to make specimens conforming to standards for the edge crush test (ECT) for corrugated cardboard in accordance with DIN EN ISO 3037.

Mode of operation

The specimen conditioning of the cardboard must be effected in accordance with ISO 187.

With a sharp blade, strips are cut to the following dimensions: 100 mm at a right angle to the longitudinal direction of the corrugated cardboard and 70 mm to 300 mm at a right angle to longitudinal direction of the corrugated cardboard. After that, the specimen strips are clamped in the saw.

In the saw, the constant force application to the specimen material is ensured with the help of a dead weight.

The specimen is cut at a preset speed. The automatic carriage feed enables an exact comparability of the most varied specimens because all are sawed under identical conditions.

After cutting, the specimen is ejected and the next specimen can be sawed.

Advantages and features

- Specimens are made with a parallel dimension better than 0.05 mm.
- If the adjustment is optimal (speed and carriage feed), ECT values of 15% to 20% above the normal value are obtained
- Double saw blades with special toothing for best cutting performance and long edge life
- Speed infinitely adjustable in the range of 5,000 to 12,000 rpm
- The saw uses a dead weight system to ensure constant force during cutting the specimen
- Automatic carriage feed that can be manually adjusted which ensures that all specimens are prepared under identical conditions
- Digital display with working hour meter and counter for monitoring saw blade wear
- Connection for an external extraction device

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Automatic Edge crush test (ECT) Specimen Saw

Technical data

Type	Value
Blade speed range [rpm]	5,000 – 12,000
Specimen width [mm]	25
Specimen length [mm]	100
Electrical connection	
Voltage [V]	230
Frequency [Hz]	50
Power required [kW]	1.5
Compressed-air supply [bar]	6
Dimensions	
Width x Depth x Height [mm]	600 x 600 x 350
Weight [kg]	25