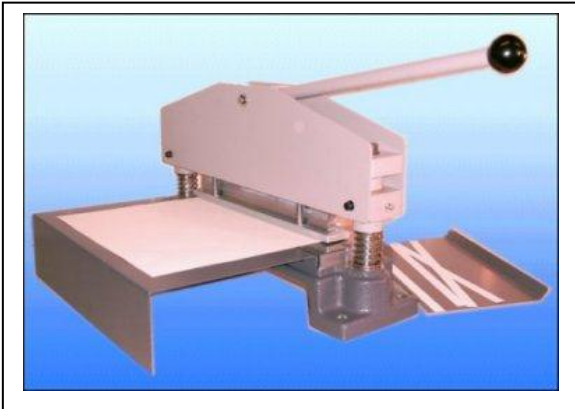


FM2000 SERIES - PRECISION SAMPLE CUTTERS



FM2030 300mm x 15mm with support shelf and tray



FM2020 100cm² area – Circular – for grammage

Introduction:

The accuracy of test results is not only dependent on the accuracy with which the procedure is carried out but also on the accuracy of cutting the test pieces (specimens) from the original sample. Some tests, for example tensile strength and edge crush, are particularly sensitive and cutting accuracy is a prime cause of variation in the test values obtained. Test pieces cut by hand are greatly dependent on operator skill and the state of template and knife blade, giving rise to potential weak spots along the edge, which will instigate the sample rupture. The use of a guillotine does not necessarily ensure parallel edges and, unless the sample is very rigidly held, can result in a slight curvature of the cut edge. Both these phenomena will give rise to error in test values, the first due to the strength of the specimen varying according to thickness and the second due to the strain being applied to the concave side of the test strip.

Description:

The FM2000 series of precision cutters have been designed to eliminate these causes of error. The instruments have punch and die action, manufactured with dimensions suitable for use with the range of tests most sensitive to the accuracy of sample preparation. Robustly made employing 'A' frame geometry construction. The punch and dies are machined to very precise tolerance for exceptional accuracy and are case hardened for long lasting repeatability. Easy production of specimens by single stroke operation, these instruments are suitable for cutting samples of paper, light board, film, foil and thin tissue. They are designed and set for precision cutting of materials typically in the range 40 to 400 grams per square meter (GSM). The cutters can also be used to produce precision specimens from thin tissue papers, provided the sample is supported during cutting by placing it between two pieces of paper. Cutters with greater clearances suitable for cutting other materials are also available on request. The cutters conform to all standard procedures with sample sizes to meet worldwide applications. They are supplied with holes pre-drilled in the base plates to facilitate bolting to a workbench, if required. They are low maintenance and designed for operator safety. The magnetic paper support shelf makes sample handling quick and easy. The specimen collection tray eliminates handling damage and ensures clean specimens, free from contamination.

Applicable standards:

Accords with all relevant national and international standards: ISO, TAPPI, SCAN, EN, BS, ASTM, APPITA, AZ/NZ, DIN, SCAN, PAPTAC, CPPA, FEFCO, JIS, etc.

*Supplied by: **PRODUCT TESTING APPARATUS***
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FM2000 SERIES - PRECISION SAMPLE CUTTERS

Specifications:

FM2010 - Precision 6 inch x ½ inch strip cutter (150 mm x 12.7 mm) produces accurate specimens for CCT - (Corrugated Crush Test), RCT - Ring Crush Test, and CMT - (Concora Medium Test).

FM2020 - Precision 100cm² area circular cutter produces accurate specimens for the determination of grammage.

FM2030 - Precision 300mm x 15mm strip cutter produces accurate specimens for tensile testing according to ISO methods and SCT - (Strip Compression Test) Short Span Compression method.

FM2040 - Precision 300 mm x 25 mm strip cutter produces accurate specimens for tensile testing according to ISO and TAPPI methods.

FM2050 - Precision 7 inch x 1 inch strip cutter produces accurate specimens for Internal Bond Test.

FM2090 – Precision 300 x 50 mm strip cutter produces accurate specimens for Tissue tensile test.

Accessories included in the price:

Magnetic sample support shelf and specimen collection tray, user instructions.

Operational Characteristics:

Provided the cutting edges are maintained in good condition, the design of these instruments eliminates all operator error due to sample cutting. In addition the force applied by means of the lever system is such that the instrument is simple and easy to operate resulting in rapid and accurate test piece production.

The use of the punch and die principle of operation quickly repays itself through the accuracy which it provides. A reduction in the number of specimens needed is often achieved and statistically, the variation in results is greatly reduced leading to a more accurate determination of product quality.

Dimensions: (W x D x H)

FM2010: 135 x 600 x 440 mm. **Net weight:** 24 kg.

FM2020: 135 x 600 x 440 mm. **Net weight:** 30 kg.

FM2030: 135 x 750 x 600 mm. **Net weight:** 35 kg

FM2040: 135 x 750 x 600 mm. **Net weight:** 38 kg.

FM2050: 135 x 600 x 440 mm. **Net weight:** 30 kg.

FM2090: 135 x 750 x 600 mm **Net weight** 36 kg

All dimensions and weights are approximate.

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