

Flute Tester (Vertical roll type)

Model No. 2100-I

When using corrugated board for packaging material, structural quality study includes checking of characteristics such as flat crush strength, end crush strength, ply bond strength and corrugated medium strength. This tester is developed as a pre-processing device for collecting samples for testing those characteristics. It can form specimens as wide as 100mm.

It works in the following mechanism. On a corrugating machine, pre-heated corrugating medium is threaded through corrugating rolls (gear-shaped) heated to $177\pm5^{\circ}\text{C}$ under a certain pressure, during which process corrugation is performed. The specimen formed is fixed in a rack using a ten-pin cantilever apparatus and then attached to the rack with double-faced adhesive tape to form one-sided corrugated board. A crush tester is used to compress the specimen and then the maximum load is measured.

Specifications

Flute Rolls:	Flute A 200mm in diameter, 110mm Wide
Roll Speed:	1.5 to 9m/min. variable
Linear Pressure:	0 to 13kg/cm variable
Flute Temperature:	$177 + 5^{\circ}\text{C}$
Temperature Adjustment:	provided with temperature controller, with non-contact sensor
Referential Standards:	J.TAPPI No.29-2000, TAPPI T-809om-99
Power Source:	100/110VAC 50/60Hz 20A
Outer Dimensions:	820 x 490 x 550mm
Instrument Weight:	123kg



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