



## **SAHARANPUR TESTING INSTRUMENTS PVT LTD**

Manufacturer & Suppliers of All Kind of Pulp, Paper, Board, Tissue, Packaging, Converting & General Testing Instrument for Laboratory

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# **Folding Endurance Tester**

**(Schopper Type)**



Usage : determines the folding resistance of paper , according to the Louis schopper principle .

Definition : In paper testing, **folding endurance** is defined as the logarithm (to the base of ten) of the number of double folds that are required to make a test piece break under standardized conditions:

$F = \log_{10} d$ , where  $F$  is the folding endurance and  $d$  the number of double folds. Folding endurance is especially applicable for papers used for maps, bank notes, archival documents, etc.

Standardization : ISO 5626 , TAPPI 423 , ISO 5626

Device Description : the device measures the number of folds until the sample breaks . The tests require that two samples be tested simultaneously. This is a standard device designed for security papers. It has automatic stop function after sample break. Standard version for paper up to 0.25 mm thickness , alternatively available for board . Measurement and display of the folding head temperature optionally available.

Test Description : two samples are clamped in the folding heads for a simultaneous test . the spring supported samples support are pulled apart, so that samples are clamped at specified force , after pushing the start button the folding knives begin to guide the sample around the sapphire supported folding rolls , that way samples are folded at both sides at a radius of about 0.25mm. if one sample breaks the folding of second sample continues , until it breaks so . the movement of the folding heads stop after test termination , so that samples can be removed the device records and displays number of folds until sample breaks.

Specifications :

Working units	Two separately working folding units for quick tests
Testing	0.25mm thickness of paper
Specimen width	15mm
Specimen length	98mm
Clamping length	90mm
Stretching force	Max 9.81 N and Min 7.55 N
Folding Roll Dia	6mm
Distance between folding rolls	0.5mm
Working speed	120 strokes/minute
Deflection on either side	10mm
Power supply	220v , 1-phase , 50Hz
Sample preparation	Precision test strip cutter for cutting width of dimensions 15 x 100mm

Delivery Content :

Consumables :

Service and Startup :