

PCA SCORE BEND & OPENING FORCE TESTER



Features

- » Software includes:
 - » Test modes for opening force, bending force & COF tests
 - » Statistics include average, high, low & standard deviation
 - » Spring back of fold test
 - » Score ratio test mode of scored vs. unscored paper board
 - » Test result & curve data for PC interface
 - » Optional Data Acquisition Software
- » Auto-zero & semi-automatic calibration
- » Automatic return with overload protection
- » RS-232 Interface
- » Meets TAPPI Standard T577

Versatile Paperboard & Carton Testing

The 1270 PCA measures the force to open or bend paperboard and scored paper carton. Force data is vital for accurately configuring machinery that controls cartons on form, fill and seal lines and to analyze carton performance for runnability and quality control.

The ability to predetermine settings in the production of cartons can increase overall efficiency. Maintaining identical package specifications between the producer and the packager has also shown to be of mutual benefit for increasing savings in less reworks, rejects and down-time.

The 1270 PCA also measures spring back after folding providing critical information for sealing or gluing operations.

Opening Force

Measures the maximum force required to open a flat, folded carton along score lines.

Bending Force

An optional bending fixture measures the maximum force to bend a carton sample up to 90°. Measure bending stiffness, score ratio of scored vs. unscored paperboard and carton fold springback force.

Coefficient of Friction (COF)

The 1270 PCA includes necessary software to measure static and kinetic coefficient of friction. The optional COF Fixture allows the 1270 PCA Score Bend to meet additional standards. (COF fixture ordered separately)

Bending Fixture

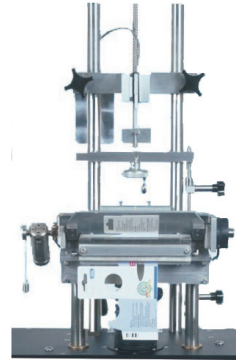
The Bending Fixture uses a pneumatic clamp that is operated with a foot-control pedal. Pneumatic clamping ensures a secure hold and a higher repeatability than manual clamping. The bending plate exerts the force required to bend the sample up to 90 degrees. A set of three reference plates are included that are used to verify accuracy.

Physical specifications

- » Dimensions
558,8mm x 406,4mm x 1219mm
- » Shipping dimensions
839mm x 839mm x 1321mm
- » Net weight
68kg



Opening force



Bending force



COF Fixture

COF Fixture

Consists of a sample platform that provides a travel distance of 152.4 mm (6 inches). The platform quickly mounts to a support plate above the bending fixture which minimizes time to switch between bending and COF testing. A variety of sample sleds are available to meet your testing needs.

Technical specifications

- » Load cell
500, 2000, 5000 and 10000 grams
- » Force reading accuracy
 $\pm 0.25\%$ of full scale reading
- » Crosshead speed
5 - 500 mm/min
- » Air pressure requirements
75 psi / 5.2 bar
- » Angle measurement range
Between 0-90° (Selectable in 0.1° increments)
- » Angle Reading Resolution
0.36° or better
- » Position Measurement Accuracy
 $\pm 0.1\%$ of full scale distance
- » Sample Size - Opening Force Mode
From 25,4 to 457,2 mm (1 in to 18 in) when flat
- » Sample Size - Bending Force Mode
Up to 152.4 mm (6 in) sample width
Up to 6.35 mm (0.25 in) sample thickness
- » Force Units
Grams, ounces, pounds, newtons, kilograms (selectable)
- » Distance Units
Inches, centimeters, millimeters
- » Power Requirements
110-120/220-240 V AC @ 50/60Hz
- » Power Consumption
Operating: 33W Stand by: 28 W
- » Fuse Rating
6 amp @ 110 V, 60 Hz
3 amp @ 220 V, 50 Hz
- » Operating/Storage Environment
Air Temperature: 15° to 25° C (48° to 88° F)
Relative Humidity: 20% to 60% (Non-Condensing)
- » Output
RS-232, Parallel Port, Chart Recorder
- » Safety Features
 - » Overload protection system - Electronic
 - » Angle over-travel limit switch
 - » Load cell incorporates mechanical limit stop
 - » Upward and downward motion limit switches
 - » Emergency stop button