

## SHORT SPAN COMPRESSION TESTER "SCT" SCM-1 model

For measurement of the short span compression (SCT) on paper and board strips according to international standards

According to Standards: ISO 9895 - TAPPI T826 - DIN 54518 - SCAN P46 - UNE 57142 - BS 7325

With easy touch screen display



- ❑ Load cell range: 0 - 500 N
- ❑ Touch Screen Display with resolution: 0,02 N
- ❑ Selectable Units: lbs - lbs./in - Kg - Kg/cm - N o kN/m
- ❑ Free span: 0,7 mm +/- 0,05 mm
- ❑ Testing speed: 3 +/- 0,5 mm/min.
- ❑ Clamping force: 2300 ± 500 N
- ❑ RS-232 Interface output

### OPTION:

#### LYNX Software Systems

Through a PC and **LYNX** Software + **SCT** Test Module (code 6835), it is possible to capture quickly and reliable results of the tests. Later it is possible to make statistical calculations



## GENERAL INFORMATION

Equipment designed to perform Short Span Compression Test and determining the compression strength on Fluting Medium and Test Liner papers within the grammage range of 100-400 g/m<sup>2</sup>. in kN/m units. Put a rectangular sample with a minimum length of 120 mm and fixed width of 15 mm between the clamps. Then push the TEST button and the clamps will close automatically and perform the test at a 3 mm/min testing speed.

## TEST DESCRIPTION

A single test strip is located into the clamping system. The instrument starts. The clamps are closed with air-pressure. Before each measurement the internal drift of the machine is set to zero. The clamps move slowly together and the strip breaks. On the display you can at which value the break is detected.

After the test is done the clamps return to their initial start position and the sample can be exchanged for a new one. The maximum strength opposed by the simple is measured in N, then it is converted into CS (Compression Strength) = kN / m (Equivalent of the maximum strength measured / the length of de sample (15 mm).

After to make a series of measures (between 20 according to standards) in each one of both felt of direction of fibers in the papero:

**MD** = Machina Direction

**CD** = Cross Direction

Incorrect measures can be eliminated to avoid errors in the statistics. The ratio between MD and CD is displayed alter the measurement of both directions.

The maximum force of the test is expressed in the selected Unit, **N – Kg or lbs.** and the internal processor converted into **kN/m, Kg/cm or lbs/in** (Compression Stregth)

Also the equipment makes automatically the calculation of Maximum, Average and Minimum Values, as much in MD (Machine Direction) like in the CD (Cross Direction)

NOTE: If require other statistic – GAUSSIAN BELLS – DISPERSION – COMPARATIVE OF REFERENCES we recommended software LYNX Single, or the more complete statistical package including TENDENCY GRAPHICS and SPC (Statistical Process Control), we recommended System LYNX PRO, the versions of LYNX System are modular and increasing

## SPECIFICACITONS

- Load Cell Range between 0 - 500 N
- Readings in Digital Display with resolution 0,02 N
- Selectable Units: lbs - lbs/in – Kg - Kg/cm - N or kN/m
- Free span : 0,7 +/- 0,05 mm
- Clamp Length: 30 +/- 0,5 mm
- Clamp height: 25 +/- 0,5 mm
- Simple Length: 100 to 150 mm
- Simple Width: 15 +/- 0,1 mm
- Test speed: 3 +/- 0,5 mm/min.
- Clamping Force : 2300 ± 500 N
- USB Interface f/ connection to a PC

### CONNECTIONS:

Power: 110 V 60Hz or 220V 50Hz, Single-phase

Air connection: 600 kPa (4-6 Bars)

### WEIGHT AND DIMENSIONS:

Dimensions: 375 x 510 x 270 mm (L X P X H)

Box for Transport: 550 x 730 x 620 mm (W x D x H)

Weight Net/Gross: 35 Kg / 60 Kg

### DELIVERY CONTENT:

>SHORT SPAN COMPRESION TESTER "SCT"

