

PackTest Core Compression (Flat Crush)

Core Compression Tester (ISO 11093-9 method)

X Series

This ISO method was originally meant for Paper Cores only, but the application can be extended to Plastic Cores as well.

Paper Cores are generally used for winding sheet material such as paper / plastic film / foil / textiles.

Material is usually wound on the paper cores with a little tension or stretch. The paper cores are expected to withstand the stress caused due to the winding tension of the material they carry.

If the paper core is unable to withstand the original winding tension or the increased stress due to material shrinkage, it will collapse inwards.

Sometime the winding tension may not be very high and the shrinkage may also be negligible, but during handling (or mis-handling) the roll may accidentally drop on the floor, causing the shape of the core to change from round to oval.

In both cases, this can make the material unusable. Or at least prevent mounting the paper core on the mandrel / chuck of the un-winder.



The strength (resistance to collapsing) of the paper cores depends upon:

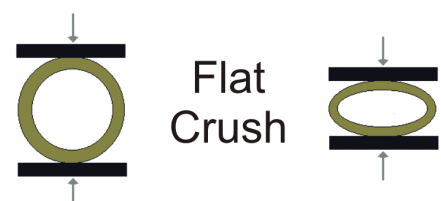
- Quality and Quantity of paper
- Quality and Quantity of adhesive
- Manufacturing process
- Moisture content
- Physical size and dimensions

It is very difficult for a user (paper core buyer) to know all the above factors and their influence on the strength of the paper core. It is equally difficult for even a core manufacturer to know the effect of each variable quantitatively.

But by using the Core Compression Tester (also known as Collapsing Strength Tester or CS Tester), it is very easy for both the paper core manufacturer and paper core user to differentiate between a good or bad core and adopt a suitable standard of monitoring the quality of the same.

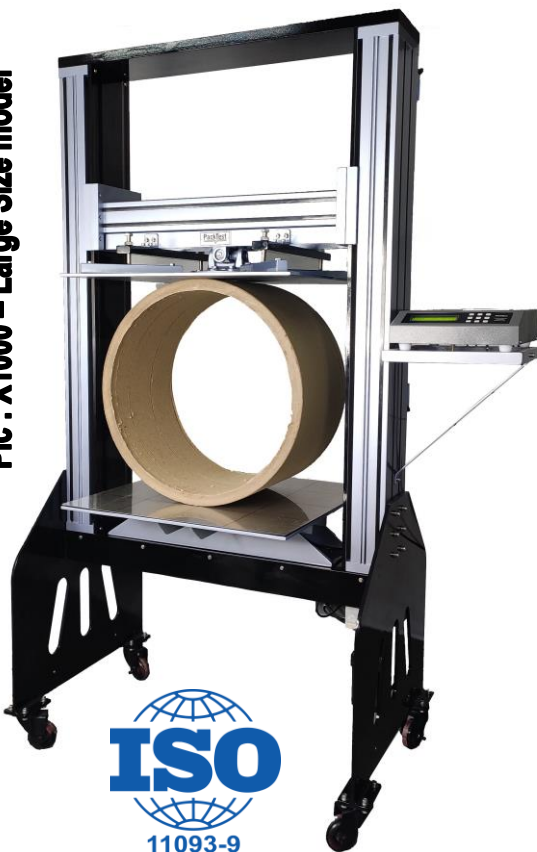
ISO Test Method 11093-9 Flat Crush Test :

The paper core is pressed between 2 flat plates at a constant speed of 50-65mm/min and the maximum force required to deform the core is recorded.



Paper / Plastic Core Compression Tester by PackTest.

Pic : X1000 – Large Size model



Technical Specifications / Special Features:

- Electro-Mechanical model with PC Connectivity.
- Ball Screw + Linear Guide mechanism (extra smooth, low-power and maintenance free).
- Backlit LCD Display for easy readability
- Direct Display of Load / Collapsing Force.
- Multiple units of measurement (Kgf/Lbf/N)
- Display of Load and Deflection data.
- Auto-stop / Auto-return upon test completion. ★
- Programmable Load / Deflection Setpoints ★
- Auto-stop upon Over-Load (Safety Feature).
- Testing Principle : Constant Rate of Travel
- Quick Calibration Check using known weights.
- Auto-calibration (rectification) facility.
- Generate Test & Calibration Reports. ★

★ These features are available only via PC Software

Benefits of Ball Screw design : Very low friction + Very low noise + Near Zero maintenance.

Models Available :

Model	X500		X1000	
Capacity	500 Kgf (~ 4900N)		1000 Kgf (~ 9800N)	
Resolution	0.05 Kgf (0.5 N)		0.1 Kgf (1 N)	
Working Range	1 – 100% of capacity		1 – 100% of capacity	
Suitable for Core Sizes	Small Size Tabletop Model	1 – 12 Inch ID Cores	Small Size Tabletop Model	1 – 12 Inch ID Cores
	Large Size Floor Model	1 – 24 Inch ID Cores	Large Size Floor Model	1 – 24 Inch ID Cores
Type of Test	Flat Crush Test only.			

Warranty : 12 Months (Ex-Factory)

Included with all models / SKUs :

- 1) Flat Crush Test Adopter. 1 adopter works for all core sizes.
- 2) Software and Data Cable (with USB Convertor).

Utilities Required :

1. Power : 230/110 Volts A.C., 50/60 Hz. Clean power.
2. Calibration weights (Total of 100 Kgs, in any combination).
3. Desktop / Laptop PC (Intel Core i3, 4gb RAM, Win10 OS, 1080p Monitor) or higher.

How to Order?

Select Part Number / Equipment SKU

Region	Industry	-	Equipment	-	Series	Capacity	-	Size	-	Software
D	N		COR		X	500		S		RS
E						1000		L		

	Options	Description
Type	D	Domestic Model. For Sale in India only. Warranty / Support valid only in India
	E	Export Model. For Sale outside India only. Comes with a set of emergency spares. International Quality / Warranty / Support.

Industry	N	For use in Non-Pharma industry only.
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Equipment - Series	COR-X	Core Compression Tester – X Series
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Capacity	500	500 Kgf (~ 4900N)
	1000	1000 Kgf (~ 9800N)

Size	S	Tabletop Model for 1 – 12 inch ID cores (max OD <350 mm)
	L	Floor Standing Model for 1 – 24 inch ID cores (max OD <650 mm)

Software	RS	Regular software. RS-232 Data Cable with USB-Serial Converter is provided.
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Write down the part code / SKU you need :

Region	Industry	-	Equipment	-	Series	Capacity	-	Size	-	Software
	N		COR		X					RS

Select the Equipment Part Code (SKU) and request for a quotation by sending an email to info@packtest.com.

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Visit us at www.PackTest.com



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Marketed by :

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