



Crease and stiffness testing of carton board, paper, printing and packaging materials are important measures to have correct and uniform. As board stiffness and crease recovery (spring back) is important in the performance of cartons on high speed packaging machines and when manual folding. The value of crease stiffness is technically important in the folding of carton blanks during their erection and closure.

The crease recovery (spring back) can result in forces, which distort the erected carton or cause stresses to be applied to closures, which reduce their effectiveness. Crease recovery is determined by the decrease in resistance offered by creased board after it is folded 90° at the crease measuring the recovery force after 15 secs. Board Stiffness is determined by bending a 50mm length of board through a 15° angle.



Applications:

- Paper & Carton Board Manufacturers
- Ink & Coating
- Packaging Manufacturers
- Packaging Development

Benefits:

- Easy to use, dual purpose unit
- Increase production
- Reduce waste
- Increase packaging speeds

Specifications:

	C0039	C0039-M2 (For Round Corner Samples)
Range:	0 - 1000.0 gf	
Digital display:	gram force	
Bending angle:	90°	
Stiffness bending:	15°	N/A
Crease stiffness sample:	38 x 36mm	
Board stiffness sample:	70 x 38mm	N/A
Accuracy:	0.5g	
Test time:	15 seconds	
Calibration weights:	200g Included	
RS 232 output:	Included	
Power:	220/240 VAC @ 50 HZ or 110 VAC @ 60 HZ (please specify when ordering)	
Dimensions:	H: 140mm x W: 275mm x D: 150mm	
Weight:	5.5kg	



Options:

- Crease & Stiffness Cutter required (to cut samples)
- Radius folding jaw
- 90 degree standard jaw
- Adjustable bend length
- Data Acquisition Software

Standards:

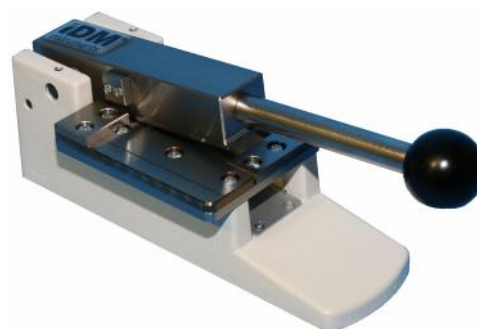
- BS 6965
- BS 3748
- ISO 2493: 1992

Crease & Stiffness Cutter Model C0016

IDM's precision cutter is designed to assist in the easy and accurate cutting of sample specimens for both crease stiffness and bending stiffness testing.

SAMPLES:

- Crease stiffness testing 38 x 36mm
- Board samples 70 x 38mm



Dimensions:	H: 140mm x W: 275mm x D: 150mm
Weight:	3.5kg

CST Software

The IDM Crease and stiffness tester can be purchased with standard RS232 and software to automatically capture the output of results to a PC where stiffness/crease ratios can be calculated, test results saved, and test reports created and printed.

This makes the CST even more easy to use with accurate precision results.



Crease Test Results

Customer:	TEST	Report No:	1
Location:	EN	Report By:	T. HALLAM
Job No:	7576	Test Standard:	BS6965
Serial No:	TSA	Room Temperature:	21°C
Material Description:	BC400	Material Condition:	

Insert notes where data to be inserted (unless noted)

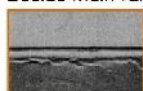
ID No.	Force (N)	Date	Time	Pass/Fail	Initials	Comments	Force Limits	
							Upper	Lower
1	10	20/03/2011	10:20:10 AM	Pass	TH			
2	10	20/03/2011	10:20:10 AM	Pass	TH			
3	10	20/03/2011	10:20:10 AM	Pass	TH			
4	10	20/03/2011	10:20:10 AM	Pass	TH			
5	10	20/03/2011	10:20:10 AM	Pass	TH			
6	20	20/03/2011	10:20:10 AM	Pass	TH			
7	20	20/03/2011	10:20:10 AM	Pass	TH			
8	20	20/03/2011	10:20:10 AM	Pass	TH			
9	20	20/03/2011	10:20:10 AM	Pass	TH			
10	20	20/03/2011	10:20:10 AM	Pass	TH			
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Mean:	13.000	grams						
Mean:	1.900	milli-newtons						
Std. Deviation:	3.520							
Range:	0.000	grams						
Checked By:	T. HALLAM	Signature:		Date:	20/03/2011			

TEST REPORT

Relative Machine:

- Carton Crease Proofer – Model C0053
- Used to determine the type of crease after bending samples

Beside main raised rib



Along grain crumpled rib



Across grain crumpled rib

