

Crease and stiffness testing of carton board, paper, printing and packaging materials are important measures to have correct and uniform quality. The 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.



Model C0039 (M3) - See details on next page



Model C0039 (M1)

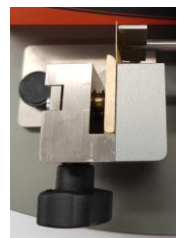
Crease and Stiffness Tester (M1)

The **Model C0039 (M1)** can determine the crease recovery 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.

Round 90° Crease Stiffness Tester (C0039 - M2)

The C0039-M2 offers the same capabilities as the C0039, with the added functionality of being able to test for round corner creases. Round corners can be tested with ease using the easily changeable Round Corner Jaw. Folds are still able to be bent at 90°, and the Round Corner Jaw allows leeway for rounded corners to bend as intended.

Another added functionality of the C0039-M2 is the ability to adjust the Load Bar position via the Load Bar Adjustment Knob, allowing for a range of different test lengths of 5mm, 10mm or 15mm creases.



Model C0039 (M2)

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Model C0039 (M3)

Digital Crease Stiffness Tester (C0039 - M3)

Along with the above-mentioned features of the C0039 M1 & M2 model, **C0039-M3** includes a digital display. The real-time display screen is the latest addition to the Digital Stiffness Tester. The digital display is colour touch screen ensures simple operation making it convenient to check statistics, test reports and results. This product is the latest and most updated version available.

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

Options:

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

Standards:

- GB/T2679.3 《Paper and Board–Determination of resistance to bending》
- GB/T 23144 《Paper and Board–Determination of bending stiffness by static methods Generation principle》
- ISO2493 《Paper and Board–Determination of resistance to bending》
- ISO 5628 《Paper and Board–Determination of bending stiffness by static methods Generation principle》
- BS6965-1 《Creasing properties of carton board》

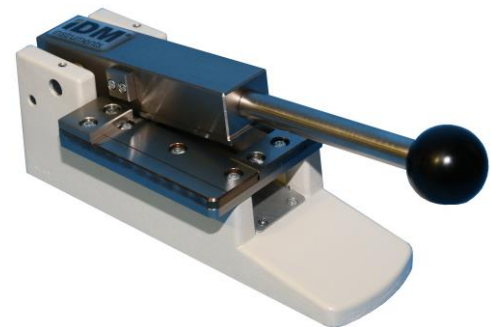
Specifications:	C0039	C0039-M2 <i>(Round and 90°)</i>	C0039-M3 <i>(Digital screen display)</i>
Range:	0 - 1000.0 gf		
Digital Display:	Gram force		
Bending Angle:	90°		
Round Corner Bending:	N/A	Yes	Yes
Stiffness Bending:	15°	N/A	N/A
Crease Stiffness Sample:	38 x 36mm		
Board Stiffness Sample:	70 x 38mm	N/A	N/A
Accuracy:	1 (+/- 0.5%)		
Test time:	15 seconds		
Check Weight:	200g included		
RS 232 Output:	Included		
Power:	220/240 VAC @ 50 HZ or 110 VAC @ 60 HZ (please specify when ordering)		
Dimensions:	H: 200mm x W: 205mm x D: 260mm		
Weight:	5.5kg		

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: 85mm x W: 95mm x D: 295mm
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.



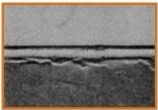
Crease Test Results							IDM instruments
Customer:	TEST	Report No.:	1				
Location:	ICK4	Report By:	T. HALLMOS				
Job No.:	7576	Test Standard:	808065				
Serial No.:	TBA	Room Temperature:	21° C				
Material Description:	BCARD	Material Condition:					
Insert crease where data to be inserted before testing		Crease Limits:	Crease (g)				
		Upper:	150.0				
		Lower:					
ID No.	Force (g)	Date	Time	Pass/Fail	Initials	Comments	
1	15	2005/01/11	09:20:00 AM	Pass	TH		
2	16	2005/01/11	09:20:10 AM	Pass	TH		
3	17	2005/01/11	09:20:20 AM	Pass	TH		
4	18	2005/01/11	09:20:30 AM	Pass	TH		
5	19	2005/01/11	09:20:40 AM	Pass	TH		
6	20	2005/01/11	09:20:50 AM	Pass	TH		
7	21	2005/01/11	09:20:50 AM	Pass	TH		
8	22	2005/01/11	09:20:10 AM	Pass	TH		
9	23	2005/01/11	09:20:30 AM	Pass	TH		
10	24	2005/01/11	09:20:50 AM	Pass	TH		
11							
12							
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26							
27							
28							
29							
30							
Mean:	19.600	grams					
Mean:	1.000	millimetre					
Std. Deviation:	3.008						
Range:	9.000	grams					
Checked By:	T. HALLMOS	Signature:	<i>T. Hallmos</i>	Date:	20/01/2011		

TEST REPORT

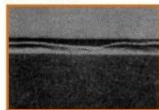
Relative Machine

- 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

