

### Mini-UTM (Universal Testing Machine)

**Variable Speed Model with Stepper Drive.**

**Computerised Model with Windows based PC Software.**

**Suitable for :**

- Cap Snap ON test
- Cap Pull test
- Flip Pull test
- Top Load test (Bottle Compression)
- Peel Strength Test (Delamination Test)
- Seal Strength Test
- Elongation at Break

**Models Available :**

**M50-Pro**

50 Kgf Capacity, 5 gm resolution

**M100-Pro**

100 Kgf Capacity, 10 gm resolution

**M100-2X-Pro** (Dual Loadcell Model)

Load Cell 1 : 10 Kgf / 100 N  
Resolution 1 gram

Load Cell 2 : 100 Kg / 1000 N  
Resolution 10 grams

**Variable Test Speed :** 10 – 500 mm/min

**Max Travel Length :** 300/500/750 mm

**Digital Display of Deflection**

(Resolution 0.1 mm)



**Features :**

- Single or Multiple Loadcells for low capacity and high capacity applications.
- Microprocessor based controller with embedded Push Buttons on Panel.
- Dual line, Backlit LCD display for stress free viewing.
- Peak hold facility to register maximum reading during test.
- Overload Protection and Overlimit Protection.
- Auto-Calibration facility using dead weights (to be arranged by Buyer).

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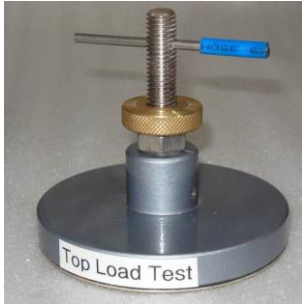



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## Optional Modules :

Many modules / jigs / adopters / fixtures are available to extend the functionality of the UTM.

Test Name / Suitable For :	Fixture Description
<b>Top Load Strength Test Or Compression Test</b>  For bottles and small duplex cartons	<b>Compression Platen (Circular)</b> With 1 hole in center as air vent. Platen Diameter = 100mm Max Neck Diameter = 90mm Max Base Diameter = 150mm Max Height = 300mm   
<b>Top Load Strength Test Or Compression Test</b>  For large duplex cartons	<b>Compression Platen (Rectangular)</b> Platen Size = 150x300mm Max Package Size = 145x295mm Max Height = 300mm
<b>Weld Strength of Tube. A.k.a. Head Bond Test (Helicopter)</b>  For Laminated Squeeze Tubes and Seamless Squeeze Tubes.	<b>Tensile Grip (Double Knob Type)</b> (Set of 2 grip, 1 Top + 1 Bottom)   + <b>Splicing Jig</b> (separate for each dia tube)  

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<p><b>Lamination Strength</b></p> <p><b>A.k.a. Inter Ply Bond Strength</b></p> <p>For Plastic Film Laminates or Laminated Squeeze Tubes</p>	<p><b>Tensile Grip (Single Knob Type)</b> (Set of 2 grip, 1 Top + 1 Bottom)</p> 
<p><b>Seal Strength</b></p> <p>For Pouches, Sachets and Laminated Squeeze Tubes</p>	<p><b>Tensile Grip (Double Knob Type)</b> (Set of 2 grip, 1 Top + 1 Bottom)</p>
<p><b>Stiffness of Empty Tube</b></p> <p>For Laminated Squeeze Tubes and Seamless Squeeze Tubes.</p>	<p><b>Finger Probe (Rounded Tip)</b></p> 
<p><b>Stiffness of Laminate</b></p> <p>For Laminate Web material of Laminated Squeeze Tubes. To be tested on the web material only before tube formation.</p>	<p><b>Special U-Shape Holder and Metal Wedge</b></p>  <p><b>+ Stainless Steel Template (10cmx10cm)</b></p>



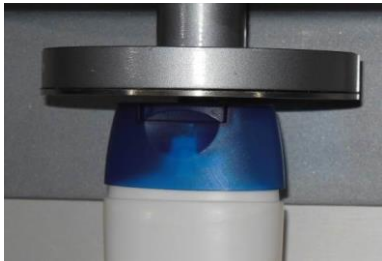
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<p><b>Flip Opening Force (Regular)</b></p> <p>For Flip Top Caps on Bottles or Squeeze Tubes</p>	<p><b>Flip Top Pull Hook (Common)</b> +</p> <p><b>Bottle / Tube Holder Grip</b> For 25-125mm dia samples</p>  <p>+</p> <p><b>Squeeze Tube Mandrels / Inserts</b> (for every specific Inner Diameter)</p>
<p><b>Flip Closing Force</b></p>	<p><b>Finger Probe (Flat Tip)</b></p> 
<p><b>Snap ON Force</b></p>	<p><b>Compression Platen (Circular)</b> With 1 hole in center as air vent. Platen Dia. = 100mm Max Neck Dia. = 90mm Max Base Dia. = 150mm Max Height = 300mm</p> 

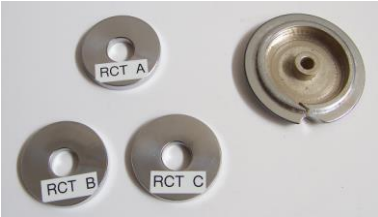
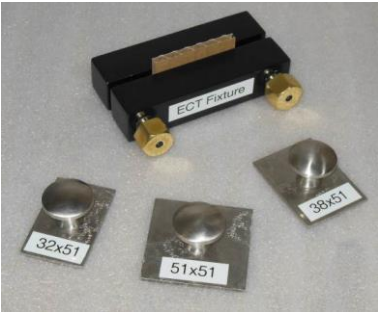
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<p><b>De-Capping Force</b></p>	<p><b>De-Capping force attachment :</b></p> 
<p><b>Ring Crush Test</b></p> <p>For Paper</p> <p>(Requires Compression Platen CPC100 or CPR150x300 as default)</p>	<p><b>RCT Sample Holder + 3 Discs.</b></p>  <p><b>+ RCT Sample Cutting Template</b></p> 
<p><b>Edge Crush Test</b></p> <p>For Corrugated Board</p> <p>(Requires Compression Platen CPC100 or CPR150x300 as default)</p>	<p><b>ECT Sample Holder</b></p>  <p><b>+ ECT Templates</b>  As per TAPPI Standards (Set of 3 : 32x51, 38x51, 51x51 mm)  As per BIS : 30x50mm  As per ISO : 25x100mm (with Guide Block Holder for 100mm sample)</p>

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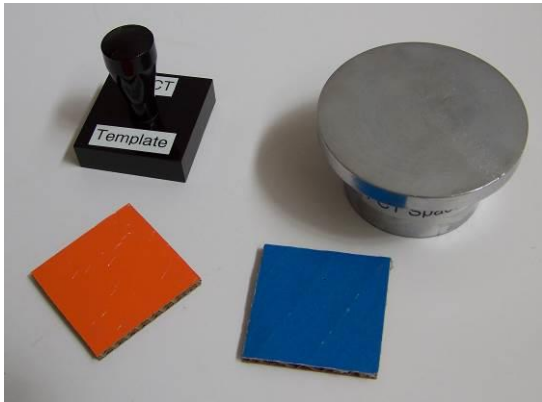




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<p><b>Flat Crush Test</b></p> <p>For Corrugated Board</p> <p>(Requires Compression Platen CPC100 or CPR150x300 as default)</p>	<p><b>FCT Sample Holder</b></p>  <p>+ FCT Templates 5x5cm (25cm<sup>2</sup>)</p>
<p><b>Coefficient of Friction Test</b></p> <p>For Plastic Films, Foils, Paper, Laminates.</p>	<p><b>COF Test Attachment</b> (Includes Base + Force Diversion Pulley + 200gm Sled + 2 SS Templates + Adhesive Tape + Clips + Cutter + Pull Cord)</p>  

**Note : Custom fixtures can be made for your specific requirements too.**

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