CT3™ Texture Analyzer

compression and tension testing for rapid QC analysis

An extensive history and customer input have contributed to the development of the most powerful, low cost, stand-alone Texture Analyzer ever produced. With six test modes (plus calibration check) and a wide choice of accessories, no other texture analyzer has ever done so much without requiring a computer and software!

**Standard Test Modes**
- Normal Test: a single compression cycle
- Hold Time Test: compress and hold
- Cycle Count Test: compress multiple times
- Bloom Test: gelatin bloom strength test
- TPA Test: texture profile analysis
- Tension Test: tensile testing
- Surimi Test: gel strength
- Static Load Test: calibration check

**Texture Loader Software**
allows up to ten custom tests and ability to lock parameters

**Compression distance**
up to 10cm, can accommodate sample up to 22.5cm, almost 9 inches tall. Probe shaft is 8cm from back wall.

**Choice of Load Cells**
7 measurement ranges up to 50kg

**Choice of Base Tables**
allows for larger samples and more accessory choices

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**What's Included?**
- Instrument with choice of load cell
- Texture Loader Software
- USB Cable

**What's else do I need?**
- Rotary Base or Fixture Base Table (see below)
- At least one probe or test fixture (p50-61)

**Optional Accessories**
The CT3 has a wide variety of probes, fixtures and jigs which enable it to be very versatile. Brookfield can also custom design a fixture and probe for most applications.

- TexturePro CT Software TA-CT-PRO-AY (p59)
- Temperature Probe DVP-94Y
- Bubble Level TA-LVL
- Calibration Weight Set (p59)
- Gelatin Bath System for gel conditioning (p57)
- Bloom Jar - industry approved TA-GBB-2

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CT3 with Fixture Base Table and Cylindrical Probe in compression mode

**TA-RT-KIT**
Rotary Base Table

**TA-BT-KIT**
Fixture Base Table
TexturePro CT Software  Optional

COLLECT DATA AND PERFORM DETAILED DATA ANALYSIS WITH REAL-TIME GRAPHIC PLOTTING.

While the CT3 can perform many tests in stand alone mode, use of TexturePro CT Software permits creation of multiple tests and automatic execution without operator involvement.

Easily create custom reports and graphs right from the menu screen.

- Sample identification set-up screen helps new operators quickly get started; test fields outline a variety of parameters
- Intuitive set up for test methods and database file structures in a single window
- Data is captured as a graph and stored in tabular database format
- Advanced data analysis with built-in parameter calculations such as springiness, chewiness, hardness and much more!

### TexturePro CT Software Features

**Sample Test Set-up**

![Sample Test Set-up](image)

**On Screen Live Force Deformation Curve**

![On Screen Live Force Deformation Curve](image)

**Tension Mode**

provides tensile testing capability

### ALL CT3 MODEL SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Load Range / Resolution*</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT3-100</td>
<td>0-100g/0.01g</td>
</tr>
<tr>
<td>CT3-1000</td>
<td>0-1000g/0.10g</td>
</tr>
<tr>
<td>CT3-1500</td>
<td>0-1500g/0.20g</td>
</tr>
<tr>
<td>CT3-4500</td>
<td>0-4500g/0.50g</td>
</tr>
<tr>
<td>CT3-10kg</td>
<td>1-10000g/1.0g</td>
</tr>
<tr>
<td>CT3-25kg</td>
<td>1-25000g/2.0g</td>
</tr>
<tr>
<td>CT3-50kg</td>
<td>2-50000g/5.0g</td>
</tr>
</tbody>
</table>

* g = grams kg = kilograms  *Accuracy = ±0.5% Full Scale Range (FSR)

### Optional Features

- Accuracy = ±0.5% Full Scale Range (FSR)
- ±0.1% of setspeed
- Resolution 0.1mm*
- Accuracy 0.1mm
- mm = millimeter s = seconds

*Resolution 0.01mm when used with TexturePro CT Software

### Calibration Weight Set

**TA-CW-1500C**

Calibration Weight Set contains a combination of certified weights which may be used to confirm the calibration and linearity of each specific load cell.
**TA-BEC**
Back Extrusion Cell for displacing applesauce, pudding, yogurt and similar products.

**TA-ATT**
Adhesive Tack Tester for measuring stickiness of pressure sensitive adhesive materials such as tape.

**TA-JPA**
Junior Punch Fixture is small scale holder for punching through flat samples with maximum 12.7mm diameter probe. Hole in fixture is 14mm.

**TA-JTPB**
Small scale version of Three Point Bend fixture and is used with TA7 fixture and is used with TA7 blade from general probe kit.

**TA-DSJ**
Dough Stickiness Fixture is standard test for measuring dough stickiness which is an important parameter for processing raw dough.

**TA-DE**
Dough Extensibility fixture for holding sheet of raw dough or flat bread such as tortilla. Biaxial test force is applied by spherical probe. Test measures force and distance as sample is stretched to breaking point.

**TA-STJ**
Syringe Test Fixture for measuring the force required to push or pull syringe plunger. Important to pre-filled syringe market or manufacturers of custom syringe products.
TA-VBJ
Volodkevich Bite Jaws for testing bite force of meat products using cutting-shear test.

TA-SBA
Shear Blade for products where a cutting-shear test is meaningful: meat, fish, sausage, etc.

TA-DEC
Dual Extrusion Cell for either forward or back extrusion of fruit puree, pudding, yogurt or similar products.

TA-OC
Ottawa Cell for extruding assorted soft samples through one of two interchangeable bases. Good for cooked pasta or diced vegetables and fruit.

TA-JMPA
Small scale Multiple Probe Assembly consisting of nine 3mm probes and corresponding base plate specifically designed to hold nine small samples of irregular geometry such as peas, corn, nuts or dried fruit.

TA-DGA
Pair of Grips for tensile testing of thin films or integrity of seals for packaging.

TA-WSP
Wire Shear Plate allows cutting wire to pass completely through the sample. Good for products with significant stickiness which would cause cutting-shear blade to show significant drag. Good for cheese and butter.

TA-CJ
Confectionary Fixture for holding candies and the like for penetration testing. Prevents sample from lifting during probe retraction.

TA-KSC
Kramer Shear Cell for combination cutting-shear and extrusion tests. Small fruits and vegetables such as tomatoes, grapes, figs, corn and beans.

TA-OC
Ottawa Cell for extruding assorted soft samples through one of two interchangeable bases. Good for cooked pasta or diced vegetables and fruit.

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Ottawa Cell for extruding assorted soft samples through one of two interchangeable bases. Good for cooked pasta or diced vegetables and fruit.

Also available:

TA-P-KIT3
Curd Probe Kit

Probes are available in kits as shown or may be purchased individually.

Brookfield can develop custom equipment to meet most any texture measurement application.

TA-MTP
Magness-Taylor Probes for testing hardness of fresh fruit and vegetables.