



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



CT3 with Fixture Base Table and Cylindrical Probe in compression mode

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

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
- Temperature Probe DVP-94Y
- Bubble Level TA-LVL
- Calibration Weight Set
- Gelatin Bath System for gel conditioning
- Bloom Jar - industry approved TA-GBB-2



TA-RT-KIT

Rotary Base Table



TA-BT-KIT

Fixture Base Table

CT3 Accessories

FOR A WIDE RANGE OF TESTS.

While many CT3 accessories have multiple applications, some are particularly useful for specific industries. The following color coded icons are used here to identify these industries.

- F** FOODS
- C** COSMETICS
- P** PHARMACEUTICALS
- M** MATERIALS



TA-KF F
Kieffer Dough and Gluten Extensibility Fixture quantifies maximum force and distance needed to break sample. Fixture Base Table required.



TA-JPA F M
Junior Punch Fixture is for punching through flat samples; 12.7mm max. diameter probe. Hole in fixture is 14mm. Rotary Base Table required.



TA-JTPB F
Small scale version of Three Point Bend Fixture is used with TA7 blade from general probe kit. Rotary Base Table required.



TA-DSJ F
Dough Stickiness Fixture is standard test for measuring dough stickiness; important for processing raw dough. Fixture Base Table required.



TA-DE F
Dough Extensibility Fixture for holding sheet of raw dough or flat bread to measure breaking point of stretched sample. Fixture Base Table required.



TA-CTP F
Compression Top Plate for applying uniform compression forces on samples up to 4x6 inches (10x15cm) Fixture Base Table required.



TA-VBJ F
Volodkevich Bite Jaws for testing bite force of meat products using shear cutting-test. Fixture Base Table required.



TA-PTF F M
Pizza Tensile Fixture quantifies cooked pizza firmness by measuring the tensile force and deformation distance to break sample.



TA-FMBRA F
Standard dough pot set for preparing dough samples and measuring dough firmness.



TA-AACC36 F
AACC spec probe for measuring bread firmness and performing texture profile analysis (TPA). Fixture Base Table required.



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



TA-SFF F

Spaghetti Flexure Fixture quantifies flexure characteristics of uncooked spaghetti and other dry pastas.



TA-NTF F

Noodle Tensile Fixture to evaluate noodle quality. Fixture Base Table required.



TA-MP F M

Mesh Probe quantifies the consistency of products such as mayonnaise and yogurt.



TA-OC F

Ottawa Cell for extruding assorted soft samples, like pasta or diced fruit and vegetables. Fixture Base Table required.



TA-PFS-C F

Pasta Firmness and Stickiness Fixture measures pasta and like products. Fixture Base Table required.



TA-CEF F

Cheese Extensibility Fixture measures the extensibility of the sample, such as molten cheese, to break point. Fixture Base Table required.



TA-BEC F M

Back Extrusion Cell for measuring consistency of applesauce, pudding, yogurt and similar products. Rotary Base Table required.



TA-KSC F

Kramer Shear Cell for shear-cutting and extrusion test on small fruits and vegetables such as grapes, figs, corn and beans. Fixture Base Table required.



TA-PFS F

Pasta Firmness and Stickiness Fixture measures the firmness and stickiness of uncooked pasta. Fixture Base Table required.



TA-WSP F

Wire Shear Plate cuts through the sample. Good for products with significant stickiness like cheese and butter. Fixture Base Table required.



TA-DEC F G P

Dual Extrusion Cell for either forward or back extrusion of fruit puree, pudding, yogurt or similar products. Fixture Base Table required.



TA-JMPA F P

Multiple Probe Assembly consisting of nine 3mm probes and base plate designed to hold nine small samples of irregular geometry such as peas, corn, nuts or dried fruit. Fixture Base Table required.

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TA-10 **F**

GMIA & GME probe and spec Bloom bottle TA-GBB-2 sold in package of twelve bottles. Rotary Base Table required.



TA-MCF **F**

The Multiple Chip Fixture is used for testing the penetration or firmness of multiple chips / french fries. Fixture Base Table required.



TA-RCA **M**

Roller Cam Accessory grips measure the tensile strength and tear characteristics of material such as polymer films.



TA-CSF **F**

Circular Support Fixture provide support for round samples and retains any potential fluid expressed during the test. Fixture Base Table required.



TA-AVJ **F** **M**

Adjustable Vice Fixture for holding small samples for puncture test. Good for jelly beans, gum drops, etc. Rotary Base Table required.



TA-DGA **P** **M**

Dual Grip Assembly for tensile testing of thin films or integrity of seals for packaging.



TA-FSF **P** **M**

Film Support Fixture for puncture test to measure strength of fine films. Fixture Base Table required.



TA-MTP **F**

Magness-Taylor Probes puncture test measure hardness of fresh fruit and vegetables. Fixture Base Table required.



TA-CJ **F**

Confectionary Fixture for holding candies and similar products for penetration testing. Fixture Base Table required.



TA-ATT **M** **F**

Adhesive Tack Tester for measuring stickiness of pressure sensitive adhesive materials such as tape. Rotary Base Table required.



TA-STJ **P**

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. Fixture Base Table required.



TA-BPS P

Blister Pack Support Fixture is used to measure the force required to remove the tablet from its blister pack. Fixture Base Table required.



TA-MDI P

Meter Does Inhaler Fixture measures the push-button force to actuate the inhaler. Fixture Base Table required.



TA-HCF C

Hair Combability Fixture measures the effect of products, such as shampoo and conditioners, on the combability of hair.



TA-P-KIT2 F C P M

Standard Probe Kit is variety of cylindrical (8), cone (3), ball (2), needle (1), knife-edge (1) and wire cutting (1) probes. Complies with BS and AACC.



TA-TCA P

Table Coating Adhesion Fixture measures the adhesion force of a tablet coating to a tablet. Fixture Base Table required.



TA-CLT P

Capsule Loop Tensile Test Fixture is used to measure the force required to split one half of a hard gel capsule. Fixture Base Table required.



TA-LC C

Lipstick Cantilever Test Fixture allows imitative tests on lipstick and similar products to quantify strength of product. Fixture Base Table required.

Also available:

TA-P-KIT3 F

Curd Probe Kit

TA-TPB

Three Point Bend Assembly

TA-RH

Raft Hook Probe

TA-CKA

Craft Knife Adapter

TA-HIP

Multi-Hole Indexing Plate

A variety of cylindrical, cone, ball, needle, knife-edge, and wire cutting probes are also available.



TA-MA P

Muco Adhesion Test Fixture quantifies tablet adhesiveness to a mucosal surface by simulating body and temp conditions and force needed to pull tablet away from surface.



TA-BLS P

Bilayer Shear Test Fixture uses guillotine blade to separate bilayer tablet while measuring shear strength. Fixture Base Table required.



TA-EP C M

Eye Pencil Test Fixture measures hardness of cosmetic pencil tips for eye- or lip-lining products and can also be used for artistic type pencil tips. Fixture Base Table required.

Brookfield can also make custom fixtures and probes for a variety of applications. Please contact Brookfield or an authorized dealer to discuss solutions to your texture and materials testing challenges.

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!



Sample Test Set-up



On Screen Live Force Deformation Curve



Tension Mode

provides tensile testing capability

MODEL	Load Range / Resolution*
CT3-100	0-100g/0.01g
CT3-1000	0-1000g/0.10g
CT3-1500	0-1500g/0.20g
CT3-4500	0-4500g/0.50g
CT3-10kg	1-10000g/1.0g
CT3-25kg	1-25000g/2.0g
CT3-50kg	2-50000g/5.0g

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

ALL CT3 MODEL SPECIFICATIONS	
Speed:	
Range	0.01-0.1mm/s (increments 0.01mm/s)
	0.1 - 10mm/s (increments 0.1mm/s)
Accuracy	±0.1% of setspeed
Position:	
Range	0-101.6mm
Resolution	0.1mm*
Accuracy	0.1mm

mm = millimeter s = seconds

*Resolution 0.01mm when used with TexturePro CT Software



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.



11 COMMERCE BLVD., MIDDLEBORO, MA 02346 USA

TEL: 800.628.8139 OR 508.946.6200 FAX: 508.946.6262

www.brookfieldengineering.com

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