

# CT3 Texture Analyzer

Accessories, Probes, Fixtures and Jigs

## ACCESSORIES FOR ROTARY BASE TABLE



**TA-RT-KIT**

### **ROTARY BASE TABLE**

Round base table provides quick and easy height adjustment to accommodate various samples. Accessories listed below are mounted onto this table to facilitate special sample holding requirements. Includes pair of T-bolts for securing table.

The following are accessories are for use with the rotary base table:

**TA-ATT**

### **ADHESIVE TACK TESTER**

Small scale assembly for testing adhesive strength

**TA-AVJ**

### **ADJUSTABLE VICE JIG**

Small scale assembly for sample positioning

**TA-BEC**

### **BACK EXTRUSION CELL**

Small scale back extrusion testing consisting of 3 containers with internal dimensions of 38.1mm diameter, 24mm deep; includes one 25.4mm diameter probe

**TA-JTPB**

### **JUNIOR THREE POINT BEND ASSEMBLY**

Small scale three point bend assembly for fracture test of brittle materials. Probe used with this accy, TA7 Knife Edge Blade, is included in General Probe Kit TA-P-KIT2. Otherwise, please order TA7 separately.

**TA-JPA**

### **JUNIOR PUNCH ASSEMBLY**

Small scale accessory for controlled puncture testing of solid materials. Probe used with this accy, TA10, is included in General Probe Kit TA-P-KIT2. Otherwise, order TA10 separately.



Rotary Base Table

## BROOKFIELD TEXTURE ANALYZERS

T: 800.628.8139 or 508.946.6200 F: 508.946.6262 [www.brookfieldengineering.com](http://www.brookfieldengineering.com)



Fixture Base Table

### Don't see what you need?

Brookfield can design fixtures, probes and jigs to hold products of all shapes and sizes and to perform a variety of texture tests. Please call to discuss your application.

**TA-RT-5**

**T-BOLTS (2)**

**TA-RT-3**

**THUMBNUT (2)**

T-bolts - used for securing base tables and grips to instrument base.

## ACCESSORIES FOR FIXTURE BASE TABLE

**TA-BT-KIT**

**FIXTURE BASE TABLE**

Rectangular base table with removable insert which is used as a test surface. With insert removed, all below accessories mount onto this table. Pair of T-bolts for securing table are included.

The following are accessories for use with the fixture base table:

**TA-CJ**

**CONFECTIONERY JIG**

Simple support jig used to permit the accurate positioning of irregular shaped samples beneath the travelling beam. Requires Fixture Base Table TA-BT-KIT

**TA-DE**

**DOUGH EXTENSIBILITY JIG**

Comprising of 2 aluminium plates - 1 with 25.4mm hole and 1 with 38.1mm hole complete with upper fixing plates to hold del of sample. For use with TA18\* and TA43\* probes respectively. Requires Fixture Base Table TA-BT-KIT

**TA-DEC**

**DUAL EXTRUSION CELL FOR BOTH BACK AND FORWARD EXTRUSION**

Allows back extrusion and forward extrusion. Cylindrical cell 40mm diameter and 50mm in depth. Forces a semi-solid sample through an outlet of known geometry. Complete with 4 plungers of 34mm, 36mm, 38mm and 39.9mm in diameter and interchangeable base plates with apertures of 8mm, 6mm, 4mm, 2mm and one blank. Requires Fixture Base Table TA-BT-KIT



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### **TA-DGA**

### **DUAL GRIP ASSEMBLY**

These are multipurpose general jigs for tensile type testing. The fixtures utilize a universal fitting enabling 360° rotation for comprehensive test configuration. The 25mm wide grips are fitted with rubber inserts to maximize contact adhesion with sample and are capable of holding rectangular samples up to 5mm thick. Each grip clamps from both sides of sample with two opposing thumbscrews.

### **TA-DSJ**

### **DOUGH STICKINESS JIG**

Special sample fixture for assessing the stickiness of uncooked bakery dough. Requires Std Base Table TA-BT-KIT and TA3/1000 or TA11/1000\* Probe.

### **TA-FMBRA**

### **FMBRA DOUGH POT SET**

Standard accessory used in the preparation of dough samples prior to textural assessment. The set comprises of two test cells and two plungers: An aeration plunger and a compacting plunger. A known weight of sample is placed in the pot and the aeration plunger is used to remove air pockets through gentle rotation. The dough is then assessed for firmness using a 6mm in diameter stainless steel probe. Includes Dough Aerator, Dough Compactor & 2 Containers.

### **TA-JMPA BLY**

### **JUNIOR MULTIPLE PROBE ASSEMBLY**

Small scale multiple probe assembly consisting of nine 2mm probes and corresponding base plate specifically designed to hold small samples of irregular geometry. Requires Fixture Base Table TA-BT-KIT



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## **TA-OC**

### **OTTAWA CELL**

The Ottawa cell follows principles of the Ottawa Test Measurement System (OTMS). An acrylic fronted test cell and corresponding plunger are used to compress and extrude samples. Test samples are extruded by the travelling plunger. Complete With 3 Plates and 2 Plungers for forward and back extrusion. Requires Fixture Base Table TA-BT-KIT

## **TA-VBJ**

### **VOLODKEVITCH BITE JAWS**

Compression test used to simulate the shearing action of the front incisors as they bite through a food item, generating an indication of sample toughness or fibrousness. Consisting of both upper and lower jaws, the compressive movement of the travelling beam imitates the human "biting action". Requires Fixture Base Table TA-BT-KIT

## **TA-WSP**

### **WIRE SHEAR PLATE**

Aluminium plate with aperture to pass wire cutting blade through for shear type testing. Used with TA 53 cutting wire. Requires Fixture Base Table TA-BT-KIT

## **TA-SB**

### **SET OF 4 SHEAR BLADES**

Including Warner Bratzler test jig complete with slotted base. The blade set includes four shear blades, firmly held within a specially designed blade holder. The jig is utilized in the measurement of shearing and cutting forces, as the blades pass through a sample. Requires Fixture Base Table TA-BT-KIT

## **TA-CTP**

### **COMPRESSION TOP PLATE**

Rectangular plate 150mm X 100mm, used for compressing large samples. Fixture Base Table TA-BT-KIT is normally used to support sample while testing with this large compression plate.

## **T-BOLTS**

**TA-RT-5**

**T-BOLT (2)**

**TA-RT-3**

**THUMBNUT (2)**



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## **SELECTED PROBE KITS**

### **TA-P-KIT2 KIT**

### **RECOMMENDED GENERAL PROBE**

Includes the following probes: 60 degree cone TA2/1000; 12.7mm cylindrical (BS std) TA5; 60mm wide knife edge TA7; 1.0mm dia needle TA9; 12.7mm cylindrical (AACC std) TA10; 25.4mm cylindrical (AOAC std) TA11/1000; 45 degree cone TA15/1000; 30 degree cone TA17; 12.7mm ball TA18; 50.8mm cylinder TA25/1000; 0.33mm cutting wire TA26; 2mm rod TA39; 38.1mm cylinder TA4/1000; 6mm cylindrical TA41; 25.4mm ball TA43; 4mm cylinder TA44 and TA-PCC

### **TA-P-KIT3**

### **CURD PROBE KIT**

Includes the following probes: 5mm disc TA46; 8mm disc TA-47; 10mm disc TA48 and storage case.

## **CYLINDER / ROD PROBES**

*\* included in TA-P-KIT2*

**TA3/100**

### **25.4mm DIAMETER CYLINDER PROBE**

Clear Acrylic. 35mm Long. Rad .35 - .43mm (Low mass for CT3100)

**TA3/1000**

### **25.4mm DIAMETER CYLINDER PROBE**

Clear Acrylic. 35mm Long. Rad .35 - .43mm.

**TA4/100**

### **38.1mm DIAMETER CYLINDER PROBE**

Clear Acrylic. 20mm Long. Rad .35 - .43mm. (Low mass for CT3100)



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|------------------------|--|
| <b>TA4/1000</b>        | <b>* 38.1mm DIAMETER CYLINDER PROBE</b><br>Clear Acrylic 26g. 20mm Long. Rad .35 - .43mm.                  |
| <b>TA5</b>             | <b>* 12.7mm DIAMETER CYLINDER PROBE</b><br>Black Delrin 5g. 35mm Long. Rad .35 - .43mm.                    |
| <b>TA6</b>             | <b>6.35mm DIAMETER CYLINDER PROBE</b><br>Black Delrin. 20mm Long. Rad .35 - .43mm. . (Low mass for CT3100) |
| <b>TA10</b>            | <b>* 12.7mm CYLINDER PROBE</b><br>Clear Acrylic 5g. 35mm length with sharp edge. Gelatin Bloom Probe       |
| <b>TA11/100 PROBE</b>  | <b>25.4mm AOAC STANDARD CYLINDER</b><br>Clear Acrylic. 35mm Long. (Low mass for CT3100)                    |
| <b>TA11/1000 PROBE</b> | <b>* 25.4mm AOAC STANDARD CYLINDER</b><br>Clear Acrylic 21g. 35mm Long.                                    |
| <b>TA19</b>            | <b>1cm<sup>2</sup> KOBE TEST PROBE</b><br>Stainless Steel. 11.3mm Diameter. 25mm Long.                     |
| <b>TA24</b>            | <b>4mm DIAMETER ROD PROBE</b><br>Black Delrin. 20mm Long, Flat End   |
| <b>TA25/1000</b>       | <b>* 50.8mm DIAMETER CYLINDER PROBE</b><br>Clear Acrylic 23g. 20mm Long. Rad .35 - .43mm.                  |
| <b>TA35</b>            | <b>5mm DIAMETER CYLINDER PROBE</b><br>Black Delrin. 20mm Long.   |
| <b>TA36</b>            | <b>7mm DIAMETER CYLINDER PROBE</b><br>Stainless Steel. 35mm Long.  |
| <b>TA39</b>            | <b>* 2mm DIAMETER ROD PROBE</b><br>Stainless Steel 5g. 20mm Long. Flat End (Margarine).                    |



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**TA40**                    **4.5mm DIAMETER ROD PROBE**  
Stainless Steel. 20.5mm Long. Flat End  
(Margarine).

**TA41**                    \* **6mm DIAMETER CYLINDER PROBE**  
Stainless Steel 7g. 35mm Long.

**TA42**                    **3mm DIAMETER CYLINDER PROBE**  
Stainless Steel. 35.8mm Long.

**TA44**                    \* **4mm DIAMETER CYLINDER PROBE**  
Stainless Steel 10g.

**TA45**                    **1mm DIAMETER CYLINDER PROBE**  
Stainless Steel.

## CONICAL PROBES

\* *included in TA-P-KIT2*

**TA2/100**                **60° CONE PROBE**  
Clear Acrylic. 30mm Diameter. (Low mass for CT3100)

**TA2/1000**             \* **60° CONE PROBE**  
Clear Acrylic 15g. 30mm Diameter, 36mm L

**TA15/100**             **45° CONE PROBE**  
Clear Acrylic. 30mm Diameter. (Low mass for CT3100)

**TA15/1000**           \* **45° CONE PROBE**  
Clear Acrylic 13g. 30mm Diameter, 40mm L

**TA16**                    **40° CONE PROBE**  
Clear Acrylic. 29mm Diameter 41mm L

**TA17**                    \* **30° CONE PROBE**  
Clear Acrylic 8g. 24mm Diameter, 46mm L

**TA27**                    **20° CONE PROBE**  
Clear Acrylic. 12.4mm Diameter.



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- |                  |   |
|------------------|---|
| <b>TA29</b>      | <b>15° CONE PROBE</b><br>Stainless Steel. 8mm Diameter.   |
| <b>TA32/100</b>  | <b>90° CONE PROBE</b><br>Clear Acrylic. 30mm Diameter. (Low mass for CT3100)  |
| <b>TA32/1000</b> | <b>90° CONE PROBE</b><br>Clear Acrylic. 30mm Diameter.  |
| <b>TA-PCC</b>    | <b>PROBE CARRYING CASE</b><br>For Texture Analyzer Probes And/Or Calibration Weights. (Foam Insert Cut To Order). Black Polypropylene - 225mm(L)X 200mm(W) X 70mm(H). |

## SPHERICAL PROBES

*\* included in TA-P-KIT2*

- |             |   |
|-------------|---|
| <b>TA8</b>  | <b>6.35mm DIAMETER BALL PROBE</b><br>Stainless Steel. |
| <b>TA18</b> | <b>* 12.7mm BALL PROBE</b><br>Stainless Steel 30g     |
| <b>TA28</b> | <b>2mm DIAMETER BALL PROBE</b><br>Stainless Steel.    |
| <b>TA31</b> | <b>1mm DIAMETER BALL PROBE</b><br>Stainless Steel.    |
| <b>TA33</b> | <b>3mm DIAMETER BALL PROBE</b><br>Stainless Steel.    |
| <b>TA38</b> | <b>10mm DIAMETER BALL PROBE</b><br>Stainless Steel.   |
| <b>TA43</b> | <b>* 25.4mm DIAMETER BALL PROBE</b><br>Nylon 14g      |
| <b>TA50</b> | <b>5mm DIAMETER BALL PROBE</b><br>Surimi application  |





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## MISCELLANEOUS PROBES

\* *included in TA-P-KIT2*

\*\* *included in TA-P-KIT3*

### TA-DGA

#### DUAL GRIP ASSEMBLY

These are multipurpose general grips for tensile type testing. The 25mm wide grips are fitted with rubber inserts to maximise contact adhesion with sample and are capable of holding rectangular samples up to 5mm thick. Each grip clamps from both sides of sample with two opposing thumbscrews for precise alignment. Includes one pair of T-Bolts for mounting to base. Base table kits are NOT USED with this fixture.

### TA7

#### \* KNIFE EDGE

Clear Acrylic 8g. 60mm Wide.

### TA9

#### \* NEEDLE PROBE

Stainless Steel. 1.0mm Diameter. 43mm Long.  
10° Maximum Taper.

### TA22

#### 18SWG BAR FRAME PROBE

Aluminium Frame. 39mm Wide. 1.2mm Dia

### TA23 PROBE

#### 12.7mm DIAMETER ROUND END

Black Delrin. 35mm Long.

### TA26 PROBE

#### \* 0.33mm DIAMETER CUTTING WIRE

Aluminium Frame 67g, 40mm Wide, Connects to M3 Male Thread

### TA46

#### \*\* TA CURD PROBE 5mm

Stainless Steel, 5mm dia disc ( 0.2 sq cm )

### TA47

#### \*\* TA CURD PROBE 8mm

Stainless Steel, 8mm dia disc ( 0.5 sq cm )

### TA48

#### \*\* TA CURD PROBE 10mm

Stainless Steel, 10mm dia disc ( 0.8 sq cm )



- TA37**      **2.36mm diameter cutting wire probe**  
Aluminium Frame. 40mm Wide.
- TA49**      **25.4mm DIAMETER ROUND END**  
Clear Acrylic.
- LFRA Train**    **LFRA On-Site Installation and Training**  
one day on-site time
- CT3 Train**    **CT3 On-Site Installation and Training**  
one day on-site time
- TA52**      **Small Scale MOHRS Shear Blade**  
Includes one blade holder and five blades.  
Blades are 9mm Wide x 35mm Length x  
.5mm Thick
- TA53**      .33mm Dia Cutting Wire Probe Aluminum  
Frame, 40 mm Wide, Connects to  
M6 Female Thread

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## CALIBRATION ACCESSORIES

- TA-CW-100C**    **CALIBRATION WEIGHT SET, 100g  
WITH CASE & CERTIFICATE**  
Set of weights (total mass 100g) to be used to  
check calibration of the 100g LFRA Texture  
Analyzer. Includes verification certificate  
traceable to NIST standards.
- TA-CW-1000C**   **CALIBRATION WEIGHT SET, 1000g  
WITH CASE & CERTIFICATE**  
Set of weights (total mass 1000g) to be used  
to check calibration of the 1000g LFRA Tex-  
ture Analyzer. Includes verification certificate  
traceable to NIST standards.
- TA-CW-1500C**   **CALIBRATION WEIGHT SET, 1500g  
WITH CASE & CERTIFICATE**  
Set of weights (total mass 1500g) to be used  
to check calibration of the 1500g CT3 Tex-  
ture Analyzer. Includes verification certificate  
traceable to NIST standards.

### **TA-CW-4500C CALIBRATION WEIGHT SET, 4500g WITH CASE & CERTIFICATE**

Set of weights (total mass 4500g) to be used to check calibration of the 4500g CT3 Texture Analyzer. Includes verification certificate traceable to NIST standards.

### **TA-CW-10KGC CALIBRATION WEIGHT SET, 10kg WITH CASE & CERTIFICATE**

Set of weights (total mass 10kg) to be used to check calibration of the 10kg CT3 Texture Analyzer. Includes verification certificate traceable to NIST standards.

### **TIA-8013 HANGER MOUNTING RING**

Used to hang calibration weights. Included with each weight set. Replacements may be ordered with this number.

### **CCSCT3 Calibration & Certification Service for CT3**



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## **GELATIN ACCESSORIES**

### **TA-GBB-2 BROOKFIELD GELATIN BLOOM BOTTLE KIT (12 pcs)**

One dozen Brookfield gelatin bloom sample bottles w/BEL logo bottle holds 120ml volume and includes TA-SBS stoppers

### **Gelatin Preparation Bath System**

#### **TC-402D (qty2) TC-351D (qty1)**

System is used by attaching TC-351 to one TC-402D bath set to 10C. Second TC-402D bath is set to 60C providing rapid transfer between the thermal environments necessary for conditioning gelatin for Bloom testing. Each bath has 29L reservoir and capacity for twelve (12) gelatin jars and a removable rack for easy handling. 21L of water is required for proper fluid level with rack and 12 bloom jars.



- TA-SB**      **BROOKFIELD SAMPLE BOTTLES** (6 pcs)  
Alternative sample bottle similar to TA-BSB.  
Order stoppers TA-SBS separately
- TA-SBS**      **BROOKFIELD RUBBER STOPPERS** (12 pcs)  
Rubber stoppers for TA-SB (Brookfield  
Sample Bottles)
- CT3-CS-100**      **BLOOM TEST STRIP**  
For use with 100g CT3 Texture Analyzer to  
check load calibration.
- CT3-CS-1000**      **BLOOM TEST STRIP**  
For use with 1000g & 1500g CT3 Texture  
Analyzer to check load calibration.

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