

# Accessory List

TVT Texture Analysis



Rigs and Probes for Optimal Texture Analysis



# Accessories

## TVT

### Probe Kits



#### **Bread & Cake Products Probe Kit, consisting of:**

Cylinder Probe, 3mm Diameter, SS	67.30.03
Cylinder Probe, 5mm Diameter, SS	67.30.05
Cylinder Probe, 18mm Diameter, SS, Radius	67.30.18
Cylinder Probe, 21mm Diameter, Alu, Radius	67.01.59
Cylinder Probe, 25mm Diameter, SS	67.30.25
Cylinder Probe, 25mm Diameter, SS, Radius	67.30.26
Cylinder Probe, 36mm Diameter, Alu, Radius	67.01.60
Cylinder Probe, 75mm Diameter, Alu	67.30.75

**Part # 677010**

*For Method Descriptions Bakery group 01 and 02*



#### **Biscuits & Cookies Probe Kit, consisting of:**

Cylinder Probe, 2mm Diameter, SS	67.30.02
Break Probe, 70mm, Aluminium	67.11.70
Three Point Bend Rig	67.50.40
Craft Blade Knife	67.13.80
Heavy Duty Stand	67.50.80
HDS insert with 10 mm hole	67.50.81

**Part # 677015**

*For Method Descriptions Bakery group 06 and 07*



#### **Dairy Products Probe Kit, consisting of:**

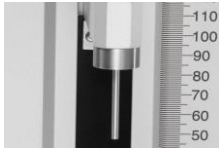
Cylinder Probe, 5mm Diameter, SS	67.30.05
Cylinder Probe, 10mm Diameter, SS	67.30.10
Cylinder Probe, 25mm Diameter, SS	67.30.25
Cone Probe, 45°, SS	67.15.45
Spherical Probe, 1 Inch Diameter	67.31.25
Cutting Wire, 90mm Length, 0.4mm Gauge	67.13.95
Warner Bratzler Knife Blade w. probe holder	67.13.06
<i>Back Extrusion Set, 60mm, consisting of:</i>	67.50.60
Back Extrusion Container Holder	67.50.31
Container, 60mm Height, 50mm Diameter	2x 67.50.65
Compression Plate, 35mm Diameter, SS	67.20.35
Compression Plate, 40mm Diameter, SS	67.20.40
Compression Plate, 45mm Diameter, SS	67.20.45

**Part # 677030**

*For Method Descriptions Dairy group 21 to 26*

## Cylinder Probes

This is the most common type of probe and they are used for most puncture, compression, adhesiveness and extrusion tests. The diameter chosen is depending on the product and the type of measurement to be tested. A small sample is best tested with a narrow probe for e.g. puncture test. For compression test the diameter should be equal to the sample diameter.



**2mm Diameter, Stainless Steel**

P-CY02S

Part # 673002

Hardness of cookies and texture of butter typically using 2-5mm cylinder probes.

**3mm Diameter, Stainless Steel**

P-CY03S

Part # 673003

Puncture test typically using 10mm or larger diameter cylinder probes.

**5mm Diameter, Stainless Steel**

P-CY05S

Part # 673005

**6mm Diameter, Stainless Steel**

P-CY06S

Part # 673006

**10mm Diameter, Stainless Steel**

P-CY10S

Part # 673010

**12mm Diameter, Stainless Steel**

P-CY12S

Part # 673012

**18mm Diameter, Stainless Steel, w. Radius**

P-CY18R

Part # 673018

The edge has a 0.1 mm Radius

**20mm Diameter, Stainless Steel**

P-CY20S

Part # 673020

**25mm Diameter, Stainless Steel**

P-CY25S

Part # 673025

**25mm Diameter, Stainless Steel, w. Radius**

P-CY25R

Part # 673026

The edge has a 0.1 mm Radius.

**30mm Diameter, Stainless Steel**

P-CY30S

Part # 673030

**35mm Diameter, Stainless Steel**

P-CY35S

Part # 673035

**36mm Diameter, Stainless Steel, w. Radius**

P-CY36R

Part # 673036

The edge has a 0.1 mm Radius

**40mm Diameter, Stainless Steel**

P-CY40S

Part # 673040

**45mm Diameter, Stainless Steel**

P-CY45S

Part # 673045

**50mm Diameter, Stainless Steel**

P-CY50S

Part # 673050

**60mm Diameter, Stainless Steel**

P-CY60S

Part # 673060

**75mm Diameter, Aluminium**

P-CY75A

Part # 673075

Compression of fruit typically using 75mm diameter

**21mm Diameter, Aluminium, AACCI 74-09**

Part # 670159

The edge has a 0.1 mm Radius

**36mm Diameter, Aluminium, AACCI 74-09**

Part # 670160

The edge has a 0.1 mm Radius.

Puncture test of bread typically use 25 or 36mm diameter with radius.

**12,7 mm Diameter, Perspex**

Part # 673213

**25 mm Diameter, Perspex**

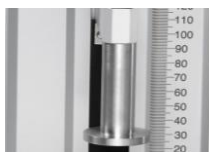
Part # 673225

**Bloom test jar**

Part # 673290

## Compression Plates

These probes are used for compression, adhesiveness and extrusion testing. The probes are mostly used for semi-liquid products like yoghurt or irregular shaped products like pasta shapes. In an extrusion test the probe diameter should be slightly smaller than the container used, so the probe can move through the container without contacting the walls.



**35mm Diameter, Stainless Steel**

P-CP35S

Part # 672035

**40mm Diameter, Stainless Steel**

P-CP40S

Part # 672040

**45mm Diameter, Stainless Steel**

P-CP45S

Part # 672045

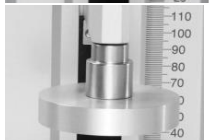
Best suited with the 60mm high and 50mm diameter Container (RA-C-60H50D).

**75mm Diameter, Aluminium**

P-CY75A

Part # 673075

Compression of fruit typically using 75mm diameter



## Spherical Probes

These spherical probes are for testing soft and sensitive products, often to simulate a finger pressing down into the product. Fish is an example of application.



**5 mm Diameter**

P-SP5

Part # 673105

**0.25 Inch Diameter**

P-SP0.25

Part # 673106

**10 mm Diameter**

P-SP10

Part # 673110



**0.5 Inch Diameter**

P-SP0.5

Part # 673112

**15 mm Diameter**

P-SP15

Part # 673115

**1 Inch Diameter**

P-SP1

Part # 673125

## Cone Probes

The conical probes are used to test plastic and soft products, for example to simulate the spreading of butter or cream cheese.



**40° Stainless Steel**

P-CO40S

Part # 671540

**45° Stainless Steel**

P-CO45S

Part # 671545

**60° Stainless Steel**

P-CO60S

Part # 671560

**90° Stainless Steel**

P-CO90S

Part # 671590

## Needle Probes



**Needle probe**

Part # 670170

## Back Extrusion set



**Back Extrusion Set, 60mm**, consisting of:  
 Compression Plate, 35mm Diameter, SS  
 Compression Plate, 40mm Diameter, SS  
 Compression Plate, 45mm Diameter, SS  
 Container, 60mm Height, 50mm Diameter  
 Back Extrusion Container Holder

R-BES-60  
 67.20.35  
 67.20.40  
 67.20.45  
 2x 67.50.65  
 67.50.31

**Part # 675060**



**Container, 60mm Height, 50mm Diameter**  
 Use together with Container Holder (R-BECH).

RA-C-60H50D

**Part # 675065**

**Back Extrusion Container Holder**

R-BECH

**Part # 675031**

Holds the container in the same position during the test. For Container (RA-C-xxHxxD).

## Knife, Cutter and Break Probes

These probes are used for testing cutting force and hardness of products.



**Blade Set**, consisting of:

PS-BS

**Part # 671300**

Probe Holder Knife

67.13.30

Knife Blade

67.13.01

Triangular Blade

67.13.03

Blade Set Insert - HDS

67.50.10

*(R-HDS is necessary but not included in the set)*



**Probe Holder Knife**

P-PHK

**Part # 671330**

Holder for knife and triangular blades



**Knife Blade, blade only**

P-WBK

**Part # 671301**

For meat products, vegetables and cheese. Use together with the Heavy Duty Stand (HDS).



**Triangular Blade, blade only**

P-WBT

**Part # 671303**

For circular products, like sausage and shrimps.

**Triangular Blade with holder**

**Part # 671305**

For circular products, like sausage and shrimps.

**Knife Blade, with holder**

**Part # 671306**

For meat products, vegetables and cheese. Use together with the Heavy Duty Stand (HDS).

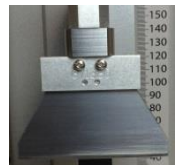


**Blade Set Insert - for HDS**

RA-WBKI

**Part # 675010**

For cutting tests. Enables the probe to completely penetrate the product.



**Craft Blade Knife**

P-CBK

**Part # 671380**

For cutting tests (sharp knife blade)

**Spare blades for CBK, pack of 3.**

**Part # 671381**



**Cutting Wire Probe**  
For testing of butter and cheese.

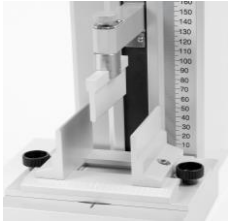
P-CW9004

Part # 671395



**Transparent Noodle Knife Probe**  
For noodles test according to AACC 16-50.

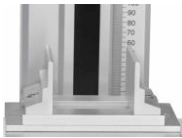
Part # 671340



**Break Rig Set**, consisting of:  
Break Probe, 70mm, Aluminium  
Three Point Bend Rig

P-TECKN-ING  
67.11.70  
67.50.40

Part # 675045



**Three Point Bend Rig**  
For fracturability tests. Use together with the Break Probe (P-BP70A).

R-TPBR

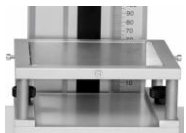
Part # 675040



**Break Probe, 70mm Aluminium**  
For small cookies etc. Use together with the Three Point Bend Rig (R-TPBR).

P-BP70A

Part # 671170



**Heavy Duty Stand**  
Use together with inserts listed below.

R-HDS

Part # 675080



**Standard Insert**  
For cutting and hardness tests of products.

RA-HDSSI

Part # 675088

**Insert w. hole 10 mm**

RA-HDSIH10

Part # 675081

For tensile tests.

**Insert w. hole 18 mm**

RA-HDSIH18

Part # 675082

For tensile tests.

**Insert w. hole 50 mm**

RA-HDSIH50

Part # 675085

For tensile tests.

**Polythene Protection Insert - HDS**

RA-HDSPPI

Part # 675011

For cutting tests, sticky and soft products and for protection of the base plate.



**Grain and Pellets Set**  
For hardness/brittleness test. Use together with the Heavy Duty Stand.

Part # 675050



**Parallel Clamp**  
For tensile test of ham etc.

R-PC

Part # 675025



**Self Tightening Roller Grip**  
45mm width. For tensile test of noodles etc.

R-STRG

Part # 675021

**Kramer shear cell**  
(Heavy Duty Stand is necessary but not included in the Kramer Shear Cell kit)

Part # 670104

## Adapters



**Adapter kit for SMS probes**, consisting of: **Part # 670021**

SMS plate adapter (with screws) 68.03.11

SMS probe adapter (female) 68.03.12

SMS probe adapter, standard (male 23 mm) 67.10.03

SMS probe adapter (male, for hollowed out probes) 67.10.04

**Adapter for SMS probe, 23 mm, standard** **Part # 671003**

**Adapter for SMS probe, 100 mm** **Part # 671004**  
(To fit hollowed out SMS probes)

**Extention adapter 40 mm for TVT probes** **Part # 671097**

## Extra Load Cells

**Extra Load Cell, TVT 6700 (XPH) 5 Kg** **Part # 678105**

**Extra Load Cell, TVT 6700 (XPH) 10 Kg** **Part # 678110**

**Extra Load Cell, TVT 6700 (XPH) 15 Kg** **Part # 678115**

**Extra Load Cell, TVT 6700 (XPH) 20 Kg** **Part # 678120**

**Extra Load Cell, TVT 6700 (XPH) 30 Kg** **Part # 678130**

**Extra Load Cell, TVT 6700 (XPH) 50 Kg** **Part # 678150**

**Extra Load Cell, TVT 6700 (XPH) 100 Kg** **Part # 678100**

## Calibration Weights



**Calibration Weight, 1 Kg, with plastic cover** **Part # 679001**

**Calibration Weight, 2 Kg, with plastic cover** **Part # 679002**

**Calibration Weight, 5 Kg, with plastic cover** **Part # 679005**

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