

### Ball Probes

For determining surface hardness of products such as cheeses, fruits and vegetables, or the gel strength of Surimi products, the ball probe range features precision-engineered stainless steel ball-end probes,

This ball design of probe is ideal for testing products with uneven surfaces.

### Applications

Hardness of product

Gel Strength or burst strength

### Specification

Ball Diameter : 4 , 5 , 6 , 8,10, 25 mm

Screw Fitting : M6



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### Cylinder Probes

The principle of the cylindrical probe is that as the probe is forced into the sample, a shearing force acts which causes the sample to deform or rupture. This produces a curve showing load resulting from deformation.

### Applications

Cylindrical probes have traditionally been used as general purpose compression probes for a wide range of applications, primarily for applying a deformation to a gel structure to determine the gel strength and elasticity.

They are also useful for applying a shearing force to a gel to determine its breaking strength and elasticity.

Many standards quote cylindrical probes for gel testing.

The Bloom value is a recognized standard for quoting the strength of a gel structure, particularly gelation.

### Specification

Diameter : 4 , 5 , 6 , 8,10, 25 , 35 mm

Screw Fitting : M6



### Cone Probes

Cone probes are supplied with a range of angles, from 15° to 90°. The selection of the appropriate cone is, in some cases, dependent upon the testing standard, or alternatively can be selected appropriately for the consistency of the material being tested.

### Applications

Cone probes have been used for many years, particularly on penetrometers, for testing building industry products such as sealants and mastics, and the cosmetics and pharmaceutical industries for testing creams and pastes. Cone probes are useful for determining the spreadability of dairy products such as margarine, butter and spreads.

**Packaging** 15°, 45° & 90°.



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### Warner Bratzler Shear Blade Set

The jig consists of a rigid frame supporting a shear bar. Interchangeable shear blades fit into the frame.

Capacity 500 N

### Packaging

The kit is supplied with two blades: A square cut blade, a 'V' blade.



### Spaghetti Noodle Testing Fixture

The set consists of two roller grips, designed for tensile testing of food products such as spaghetti and noodles.

Capacity 200 N

#### Packaging

Complete upper and lower jig.



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### 3-Point Bend Test for Food

Three point bend jig for general purpose food sample fracture testing.

Capacity : 500N

#### Packaging

Complete jig.



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### Back Extrusion Food Cell

The Back Extrusion Food Cell consists of a circular plunger which is driven into a larger cylinder to compress the food sample and force it through the gap between the plunger and the container.

This results in a peak compression force and then a fluctuating compression force.

Capacity : 500 N,

#### Packaging :

The kit is supplied with three different diameter plungers



### **Texture Analysis Accessory Kits**

A range of texture analysis accessories kits are available. Each kit consists of specially selected jigs and probes for analysis of specific food types. Application of a texture analysis system in an organization can highlight numerous quality improvement opportunities and other benefits through operations, typically research and development, production/process control, and quality assurance/control.

### **Bakery Accessories Kit**

A Bakery Kit containing the following items:-

3-point bend jig

Dough firmness testing set

Comparative dough stickiness measurements jig

Crisp fracture support jig

25 mm diameter cylinder probe

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### **Confectionery Accessories Kit**

A Confectionery Kit containing the following items:-

3 point bend jig

4 mm diameter cylinder probe

25 diameter cylinder probe

4 mm diameter ball probe

12mm diameter ball probe

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### **Dairy Accessories Kit**

A Dairy Kit consisting of the following items:-

Butter cutting jig

50 mm diameter cylinder probe

2 mm diameter cylinder probe

4 mm diameter cylinder probe

## General Food Probe Kit

This probe set contains the following items:-

6 mm diameter cylinder probe

25 mm diameter cylinder probe

12 mm diameter ball probe

25 mm diameter ball probe