Probes for Food Texture Analyzer



For Compression tests 1 Simple shaped series

(Disk, Cylindrical, Conical and Sphere probes)

Elasticity or stiffness can be measured by compressing or breaking with the simple shaped series probes.

Viscosity of semi-solid samples can be measured as well with them.

Disk probe (FR-HA series)



Feature

Disk probe can compress wide area of a sample firmly, and measure viscosity of semi-solid sample as well.

Sample example

Elasticity of sponge cake, fruits and hamburger steak.

Viscosity of cheese, custard cream, and dressing

Japanese Standard

Ø20 complies with a part of \lceil Food for person having difficulty in swallowing \rfloor (only for FR-HA-20J) and \lceil Universal Design Food \rfloor .

[Measurement examples]

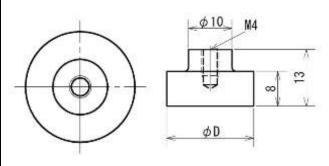


Viscosity of soup



1. Container holder table (FR-BG-60)

[Dimensions]



*unit: mm

*We will provide made-to-order sizes of all probes and tables if required.

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FRTS: Accessories for compression tests



Model	FR-HA-20J	FR-HA-20S	FR-HA-30J	FR-HA-50J
Outside diameter of	Ø20		Ø30	Ø50
touch surface Ø D			Ø30	250
Material	Polyacetal	Stainless steel	Polyacetal	
Weight	4g	23g	9g	23g
Capacity	50N	100N	50N	



Cylindrical probe (FR-EC series)



Feature

Cylindrical probe can compress a small area of a sample, so it is fit to measure force to push out or crush a sample.

Sample example

Stiffness of jelly, tofu, rice and beans

Japanese Standard

It meets JIS K6503 [Glue and Gelatin (Ø12.7)]

[Measurement examples]

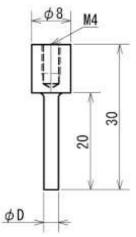


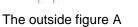
Compressing salmon roe

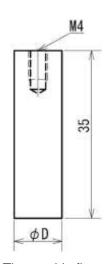


Container holder table (FR-BG-60)

[Dimensions]







The outside figure B

Model	FR-EC-3J	FR-EC-3S	FR-EC-5J	FR-EC-5S
Outside diameters of touch surface	Ø3		Ø5	
Material	Polyacetal	Stainless steel	Polyacetal	Stainless steel
Weight	2g	11g	2g	13g
Capacity	50N	100N	50N	100N
The outside figure	A			

Model	FR-EC-8J	FR-EC-10J	FR-EC-12.7J	FR-EC-15J
Outside diameters of touch surface	Ø8	Ø10	Ø12.7	Ø15
Material	Polyacetal			
Weight	4 g		6g	9g
Capacity	50N			
The outside figure	В			

^{*}unit: mm

^{*}We will provide made-to-order sizes of all probes and tables if required.



Conical probe (FR-ES series)



Feature

Conical probe is fit to measure how easy to penetrate a sample because of its sharp point.

Sample example

Vegetables or fruits skin, butter, yogurt, ice cream, hair conditioner and so on

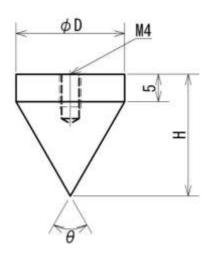
[Measurement examples]





1. Anti-scattering sheet (FR-DP-80)

[Dimension]



*unit: mm

Model	FR-ES45-20J	FR-ES45-30J	
The angle of the point θ	45		
Outside diameter ØD	Ø20 Ø30		
Height H	(29.1) (41.2)		
Material	Polyacetal		
Weight	4g	13g	
Capacity	50N		

Model	FR-ES	FR-ES60-20S	
The angle of the point θ	60		
Outside diameter ØD	Ø	Ø30	
Height H	(22	(31)	
Material	Polyacetal Stainless steel		Polyacetal
Weight	3g 19g		10g
Capacity	50N	100N	50N

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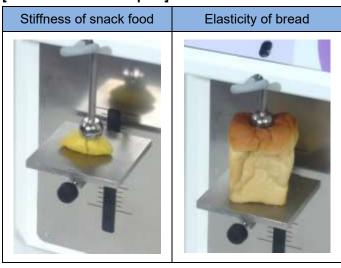
Sphere probe (FR-SR series)



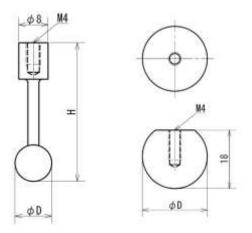
	Feature			
V	With Sphere probe, a sample can be compressed and transformed.			
	Sample example			
D	Dough, snack food, fruits, and cheese			
	Japanese Standard			
Ø	07 is compliant with JAS			

[Standard of elasticity for special packaging steamed fish paste]

[Measurement examples]



[Dimensions]



The outside figure A

The outside figure B

Model	FR-SR-5S	FR-SR-7S	FR-SR-10S	FR-SR-20S
The angle of the point ØD	Ø5	Ø7	Ø10	Ø20
Height H	(35)	(35)	(38)	(18)
Material	Stainless steel			
Weight	5g	6g	9g	32g
Capacity	100N			
The outside figures	A			В

^{*}unit: mm

^{*}unit: mm

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[Cautions]

- Information in this document is subject to change without prior notice.
- This document is product descriptions and handling precautions, and do not guarantee various characteristics or safety.
- This product is designed for force measurement purpose only.
- Do not copy and use this content without authorization.
- Some samples may not be suitable to measure with this product.

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