



# TEXTURE ANALYZER

50 TX-700  
52 PROBES  
53 FIXTURES

# TX-700

## The **tactile** texture analyzer



With its wide range of probes and fixtures, the TX 700 is the ideal tool for your texture analysis. Thanks to its touch screen directly displaying the curves, its method programming capability, storage and analysis of measurements, the TX 700 will fit in laboratory and production area.

### FEATURES AND BENEFITS

- Integrated temperature probe.
- Direct curve on display.
- Programming and recording methods.
- Data recording and USB transfer.
- Many different probes and fixtures.
- Interchangeable force sensors.
- Height adjustable tray.
- Compatible with RheoTex software.

### WHAT'S INCLUDED WITH DEVICE ?

*(according to part number)*

- 1 Interchangeable force sensor.
- 1 Temperature probe PT100 (-50°C à 300°C).
- 1 Height adjustable tray.
- 1 Touch screen stylus.
- 1 User manual.
- 1 Calibration and checking certificate.
- 1 Microfiber cloth.

### AVAILABLE INSTRUMENTS

| Reference | Designation                     |
|-----------|---------------------------------|
| N151010   | TX-700 TEXTURE ANALYZER - 10 N  |
| N151020   | TX-700 TEXTURE ANALYZER - 20 N  |
| N151050   | TX-700 TEXTURE ANALYZER - 50N   |
| N151250   | TX-700 TEXTURE ANALYZER - 250 N |
| N151500   | TX-700 TEXTURE ANALYZER - 500 N |

## TX-700

## SPECIFICATIONS

**Type of device**

Texture Analyzer operating in Compression and Traction with 7" Touch screen

**Choice of sensors**

10 N (1 kg), Resolution 0.001 N (0.1 g)  
 20 N (2 kg), Resolution 0.001 N (0.1 g)  
 50 N (5 kg), Resolution 0.001 N (0.1 g)  
 250 N (20 kg), Resolution 0.01 N (1 g)  
 500 N (50 kg), Resolution 0.01 N (1 g)

**Accuracy**

+/- 0.1 % of the full scale

**Speed range**

From 0.1 to 10 mm/s +/-0.2 %

**Motion**

Height: 330 mm / Resolution: 0.1 mm (0,01 mm with RheoTex)

**Temperature Probe**

Equipped with a PT100 sensor which indicates temperatures between -50°C to +300°C

**Display**

Force – Speed – Distance – Temperature - Time –  
 Measuring probe – Level of sensitivity  
 Date/hour - Choice of force units: gram or Newton

**Languages**

French/English/Turkish/German

**Security and confidentiality**

An «operator» function allows you to enter a username for your instrument. This user must then be identified using a 4-digit code. There is also a protected mode that locks your measurement conditions.

**Supply voltage**

90-240 VAC 50/60 Hz

**PC connections**

RS232 Port

**Printer connection**

USB Host Port -  
 Compatible PCL/5

**What benefits are there for you?**

Integrated adjustable turntable: diam. 160 mm. Table for attaching inserts: 120 x 220 mm.  
 Available Operating Modes: Compression – Relaxation – Traction – TPA Cycle – Penetrometry and relative compression mode also. Large selection of probes available and custom probes can be made with choice of material, shape and size according to your criteria. The TX700 has a large 7" colour touch screen which allows comfortable use and optimal viewing of measurements. Storage of your measuring methods. Data can be backed up and exported using a USB stick. External control thanks to the optional software.

**Dimensions and weight**

D610 x W340 x H710 mm  
 Weight: 25 kg



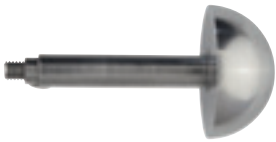


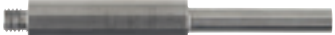






CALIBRATION KIT

## OPTIONS &amp; ACCESSORIES



- Probes (p52).
- Fixtures (p53-55).
- Barcode reader with stand and cable (p68).
- Touch screen protector (p68).
- Calibration Kit: 10-20N (Ref.150060) ; 50-250N (Ref.150070) ; 500N (Ref.150080).
- RheoTex software (p64-65).
- Force sensor: 10N (Ref : N150010) ; 20N (Ref : N150020) ; 50N (Ref : N150050) ; 250N (Ref : N150250) ; 500N (Ref : N150500).

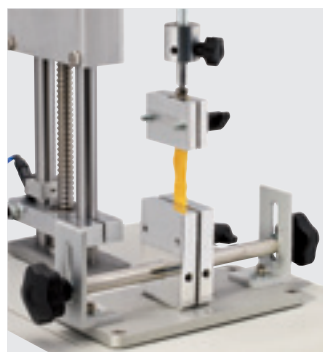
# PROBES

| Name / Material   | Ref.   | Ø (mm)   | Height (mm)  | Interest for  |   |
|---|--|--|--|---|---|
| <b>½ SPHERICAL PROBE</b><br>316L Stainless Steel              | 130079<br>130174<br>130019<br>130049   | 8<br>16<br>30<br>40                            | -  | Consistency, elasticity, adhesion and spinning on gel and cream.                            |    |
| <b>FLAT PROBE</b><br>316L Stainless Steel                     | 130080<br>130083<br>130101<br>130175<br>130200<br>130177                               | 34<br>40<br>50<br>75<br>100<br>160             | -  | Consistency, elasticity, adhesion and spinning on a solid of size smaller than the plateau. |    |
| <b>BLOOM PROBE</b><br>plexiglass                              | 130046   | 12.7   | 30   | Bloom Gel Strength test   |    |
| <b>CYLINDRICAL PROBE</b><br>316L Stainless Steel or Aluminium | 130077<br>130063<br>130078<br>130066<br>130124<br>130099<br>130037<br>130176<br>130126 | 2<br>3<br>4<br>6<br>10<br>20<br>25<br>36<br>50 | 35<br>35<br>35<br>35<br>40<br>40<br>40<br>40<br>50 | Measure in texture penetration on solid sample  |    |
| <b>CONICAL PROBE</b><br>316L Stainless Steel                  | 130020<br>130047<br>121023   | 25<br>30<br>30                                 | 20° Cône<br>45° Cône<br>30° Cône                   | Measurement in consistency penetration on solid sample (spreading)                          |  |
| <b>NEEDLE</b>   | 130179   | 3  | 60   | Core consistency  |  |
| <b>CLEAVER PROBE</b><br>316L Stainless Steel                  | 130064   | L. 25 mm                                       | 60° Angle  | Breaking Force, Knack   |  |
| <b>SPHERICAL PROBE</b><br>316L Stainless Steel                | 130191<br>130134<br>130149   | 12,7<br>19,5<br>20                             | -  | Consistency, elasticity and adhesion on soft to strong sample                               |  |
| <b>MESH PROBE</b>   | 130158   | 50mm (adjustable)                              | -  | Consistency of product with big particle as yogurt, sauce, jam.                             |  |
| <b>KNIFE PROBE</b>  | 120012   | -  | -  | Cutting force.  |  |

More size and material on request ( Aluminium, PEEK, DELRIN, PMMA)

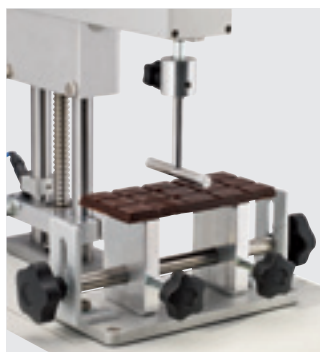


# FIXTURES



**TENSILE  
FIXTURE**  
(Ref. 130092)

Tensile force.



**3 POINTS BEND  
FIXTURE**  
(Ref. 130091)

Breaking force, Friability,  
Springiness.



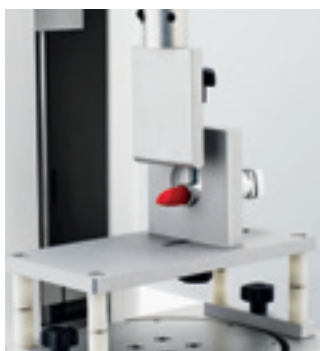
**KRAMER 5 BLADES  
FIXTURE**  
(Ref. 130094)

Hardness and tenderness  
on small samples  
(Requires table Ref. 310106).



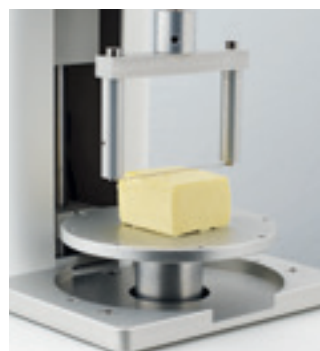
**FILM COMPRESSION  
FIXTURE**  
(Ref. 130031)

Accessory to measure  
strenght of film  
(Requires table Ref. 310106).



**LIPSTICK CANTILEVER  
FIXTURE**  
(Ref. 130147)

Accessory to measure  
strength of lipstick.



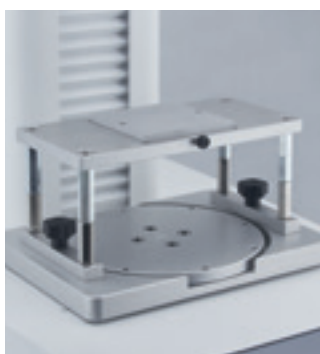
**WIRE SHEAR  
FIXTURE**  
(Ref. 130076)

Accessory to measure  
consistency of product  
as Butter or Cheese.



**SYRINGE  
TEST FIXTURE**  
(Ref. 130145)

Study of needed force  
to use syringe.



**FIXTURE BASE  
TABLE**  
(Ref. 310106)

Universal holder  
for fixture and sample.



**EXTRUSION FIXTURE**  
(Ref. 100200)

Foward and backward extrusion of  
liquid, cream, paste, gel  
(Requires table Ref. 310106).

# FIXTURES



**MINI OTTAWA  
FIXTURE**  
(Ref. 130097)

Hardness and tenderness on small samples.  
(Requires table Ref. 310106).



**PASTA  
FIXTURE**  
(Ref. 130152)

Firmness and stickiness of pasta.  
(Requires table Ref. 310106).



**VOLODKEVICH  
FIXTURE**  
(Ref. 130068)

Shear cut and bite test.  
(Requires table Ref. 310106).



**MOHRS  
PROBE**  
(Ref. 130165)

Cutting test with blade for meat, fish...



**FRICTION  
FIXTURE**  
(Ref. 120013)

Friction measurement according to ASTM D1894.



**DOUGH STICKINESS  
FIXTURE**  
(Ref. 121017)

Measure of dough stickiness.  
(Requires table Ref. 310106).



**NOODLE TENSILE  
FIXTURE**  
(Ref. 130168)

Measure of noodle elasticity and rupture.



**SPREAD TEST  
FIXTURE**  
(Ref. 130157)

Measure of the spreading capacity of creams, pastes and gels.  
(Requires table Ref. 310106).



**WARNER-BRATZLER  
FIXTURE**  
(Ref. 130074)

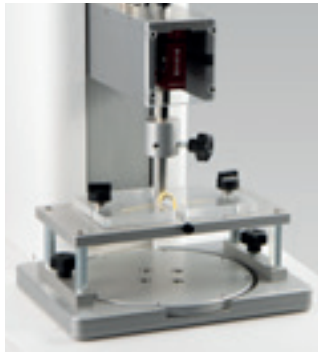
Cutting blade fine.

## FIXTURES



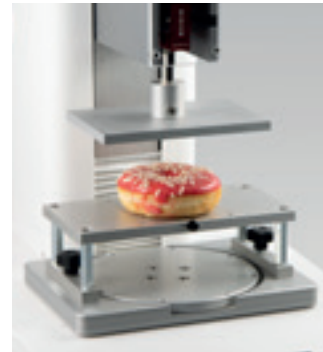
**THREE RINGS  
PROBE CUTTING**  
(Ref. 130186)

Measure firmness of sample as pasta, rice, corn...



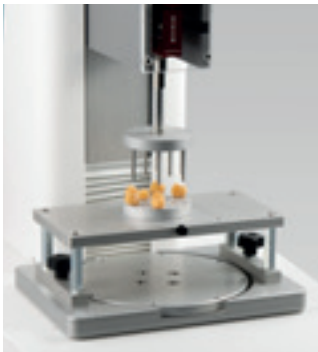
**KIEFFER DOUGH  
EXTENSIBILITY FIXTURE**  
(Ref. 130148)

Measure of dough elasticity and rupture.  
(Requires table Ref. 310106).



**COMPRESSION TOP  
PLATE FIXTURE**  
(Ref. 130153)

Measure firmness by uniform compression.  
(Requires table Ref. 310106).



**MULTIPLE  
PROBE FIXTURE**  
(Ref. 130170)

Probe for puncture on 9 sample.



**8 PROBES KIT**  
(Ref. 130166)

| Reference | Designation                          |
|-----------|--------------------------------------|
| 121023    | CONICAL PROBE 30°                    |
| 130019    | 1/2 SPHERICAL PROBE DIAMETER 30 mm   |
| 130037    | CYLINDRICAL PROBE H:25 mm Diam:40 mm |
| 130064    | CLEAVER PROBE 25 mm                  |
| 130077    | CYLINDRICAL PROBE DIAMETER 2 mm      |
| 130079    | 1/2 SPHERICAL PROBE DIAMETER 8 mm    |
| 130101    | FLAT PROBE DIAMETER 50 mm            |
| 130124    | CYLINDRICAL PROBE DIAMETER 10 mm     |

**WE CAN ALSO MAKE CUSTOMISED  
PROBES AND FIXTURES ON REQUEST.**