

TEXTURE ANALYZER

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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

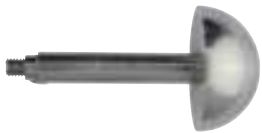











OPTIONS & ACCESSORIES



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

Forward 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.**