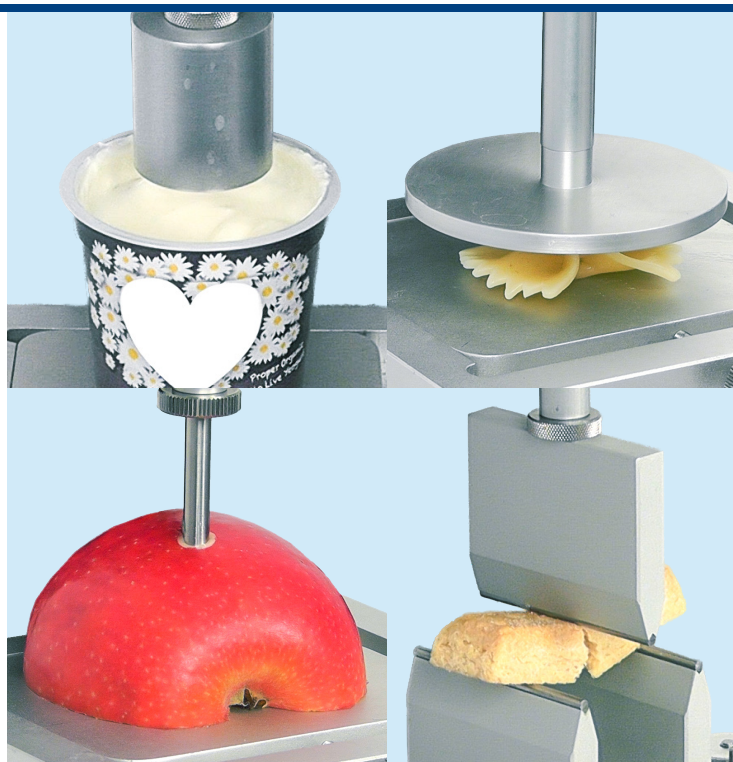# Mecmesin

TMS-Pilot
Texture Analyzer

TMS-Pilot Texture Analyzer

Flexible and Affordable Texture Analyzer

Designed specifically for quick and easy texture assessments, the TMS-Pilot provides an affordable solution for texture analysis up to 500 N. Compact, rugged and portable, the motorised TMS-Pilot texture analyzer ensures reliable and repeatable test results. Use the TMS-Pilot to quickly determine the textural properties of bakery products, cereals, confectionery, snacks, dairy products, fruit and vegetables, as well as non-food products such as cosmetics, pharmaceuticals and many more…

The TMS-Pilot requires minimum operator training. Tests can determine consistent standards within the raw or finished product and programs can be saved for instant recall.

The TMS-Pilot can accommodate a wide range of fixtures. Just choose from a wide range of 'Plug and Play' loadcells and start to test your products

Key Features

Robust bench-top machine
 – portable and easy to move around

Easy-to-use with minimal training
 – one touch to start test

Integrated bellows
 – protect against ingress

Extensive range of probes & fixtures
 – flexible and versatile

'Plug and Play' loadcells
 – quick and easy to interchange

Password protected login
 – identifies operator for full traceability

Storage of test methods as 'Favourites'
 – minimises set-up time

Customised test reports
 – tailor reports of results to your needs

Some of our customers

Bob Evans FARMS®

BYRNE DAIRY *Since 1933*

GU™

StarKist

M MIAMI UNIVERSITY

mizkan™ *Bringing Flavor to Life* ™

Bonduelle

Weston

greencore *group*

SADLER'S SMOKEHOUSE

TMS-Pilot
Technical Overview

Tension and compression testing

8 interchangeable intelligent loadcells from 2 to 500 N

Choice of more than 200 test probes and fixtures.

System Specification

LOAD	
Maximum Load Rating in tension or compression	500 N (110 lbf)
Load Accuracy	±0.1% of full scale for loadcells from 2 – 500 N
Loadcells	Intelligent digital loadcells, changeable by the user in seconds
Loadcell Capacities Available	2, 5, 10, 25, 50, 100, 250, 500 N (0.45 – 110 lbf)
SPEED	
Speed Range	1 – 400 mm/min (0.04 – 15.5 in/min)
Speed Accuracy	±2% of set speed
Speed Resolution	1 mm/min (0.04 in/min)
DISPLACEMENT	
Displacement Accuracy	±0.13 mm
Displacement Resolution	0.01 mm (0.0004")
Maximum Travel	300 mm (12")
DIMENSIONS	
Height x Width x Depth	584 mm (23") x 412 mm (16.2") x 377 mm (14.8")
Max. Headroom, Vertical Daylight	445 mm (17.5"), 456 mm (18")
Throat Depth	79 mm (3.1"), extendable by 16 mm (5/8") or 38 mm (1 $1/2$")
Weight	19.2 kg (42.3 lbs)
ENVIRONMENT AND FEATURES	
Data Acquisition Rate	Selectable from 1000, 500, 100, 50, 10 Hz
Data Sampling Rate	1 kHz
Power Supply	110V/230V ac, 60/50 Hz
Operating Temperature	10ºC – 35ºC (50ºF – 95ºF)
Humidity Range	Normal industry and laboratory conditions, non-condensing

Mecmesin reserves the right to alter equipment specifications without prior notice. E&OE

Mecmesin

a PPT Group company

a world leader in affordable texture analysis solutions

Mecmesin has extensive experience in practical food texture measurement and provides texture analysis systems for field, factory and laboratory test environments. Our expertise combined with our cost effective solutions makes us your ideal partner for your texture measurement needs.

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