

TAPlus Series Texture Analyser

The TAPlus series machine is an easy to use solution for performing rapid, detailed texture analysis tests on applications up to 102 kgf (1 kN, 225 lbf). The machine uses interchangeable XLC Series loadcells as the measurement device. Tension and compression testing with cycling to load and extension limits are standard features. The machine can be equipped with a selection of specially engineered food texture grips, jigs and probes, as well as a range of multi-purpose grips for more general applications.

The TAPlus features an innovative design that maximises working space and simplifies operation and maintenance. The large work surface accommodates a broad range of specimen sizes and can be specified with additional work platforms for specialised applications.

The TAPlus displays load and extension information on a highly legible LCD console with integral membrane keypad. The machine's intuitive firmware displays prompts and menus which guide an authorised user through machine operations. Users can choose from a range of display languages.

The machine's performance can be further enhanced when combined with our NEXYGEN™ MT application software. This WINDOWS® based software is equally easy-to-use and allows detailed, fully customisable texture analysis tests to be performed, storing and displaying results in graphical and tabular formats. NEXYGEN™ MT software contains an extensive library of pre-programmed texture analysis test setups based around international standards. Results data can be extensively manipulated to produce detailed analytical reports, with the ability to integrate with popular WINDOWS® software packages including EXCEL®, ACCESS®, WORD®, POWERPOINT® and OUTLOOK®.

Features

- Large Working Area
 - Flexible Work Surface Configurations
 - 175 mm (6.9 in) Throat for Large Specimens
- Flexible and Accurate Load Measurements
 - XLC Series Loadcells
- Intuitive Operator Interface
 - Menu Driven with Intelligent Prompts
 - Membrane Keypad with Tactile Feedback
 - Highly Legible, backlit LCD Display
- Integral Cabling
- Motor Servo Control System
- Flash Memory Upgradeable
- Full PC Integration with NEXYGEN™ MT Software
- Load Rate Control
- Extensive range of texture analysis grips, jigs and probes available

Specifications

Capacity:	102 kgf (1 kN, 225 lbf)
Crosshead Speed:	0.001-21mm/sec
(at full load)	0.002 to 50 in/min
Speed Accuracy:	<0.2%
Loadcell Accuracy:	±0.5% of reading
Extention Resolution:	Better than <1.3 microns (0.0013 mm)
Standard Travel:	500mm (20 in)
Data Acquisition Rate:	8 kHz
Display:	40 character x 4 line backlit LCD
Inputs:	RS232 Serial Data Digital and analogue Extensometer
Outputs:	RS232 Serial Data Analogue 10Vdc max (optional)
Standard Languages:	English, Danish, Italian, French, German
Power:	115/230V ac 50-60Hz
Measuring System:	Exceeds the requirements of BS EN ISO 7500:1999. Class 0.5 or Class1, ASTM E4, DIN 51221
Safety Features:	Emergency Stop, Frame Overload Protection, Loadcell Overload Protection, Operator Password.
Weight:	46 Kg (101 lb)
Warranty:	2 years



SPECIFICATION
SS-MT-2124-0702
July 2002

INTERNET

www.ametek.com
www.lloyd-instruments.co.uk
www.davenport-instruments.co.uk
www.chatillon.com

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Ordering Information

Order No. Description
01/TAL S /LX E

Mains Power - 12th to 14th Character
/US 120V ac Mains Power
/UK 230V ac Mains Power
/EU 230V ac Mains Power

01/TAL S /LX E /US Sample Order Number - (01/TALS/LXE/US)
LLOYD TAP^{Plus} Testing Machine, with drip tray and 120V ac power.

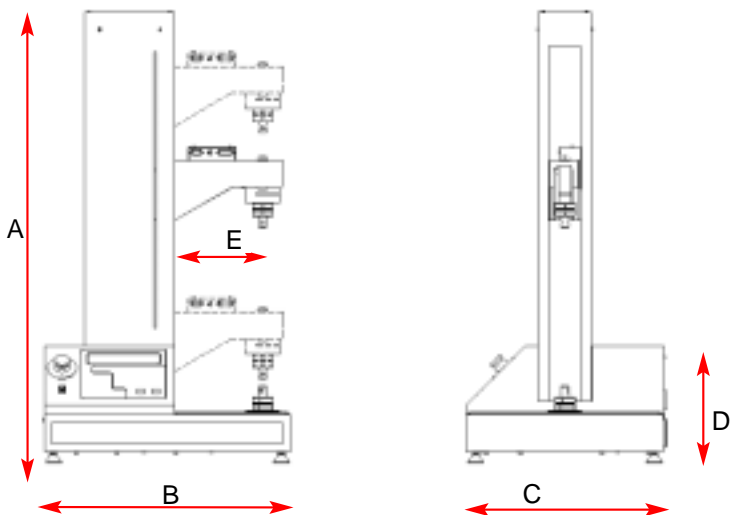
(Standard system includes the base unit, drip tray, food testing base and ½" prob. Loadcell and all food testing attachments need to be ordered separately)



Loadcell Mounting Adapter Kit (SPKLFM0013)
Supplied with machine

- 1 x User Manual
- 2 x Anti-backlash Nuts
- 1 x Anchor Pin
- 2 x Grip Pin
- 1 x C Type Spanner
- 1 x 8mm A/F Allen Key
- 1 x Button head cap screw
- 1 x 12mm Loadcell spacer

	mm	in
A	913	36
B	500	20
C	400	25
D	240	9.5
E	175	6.9



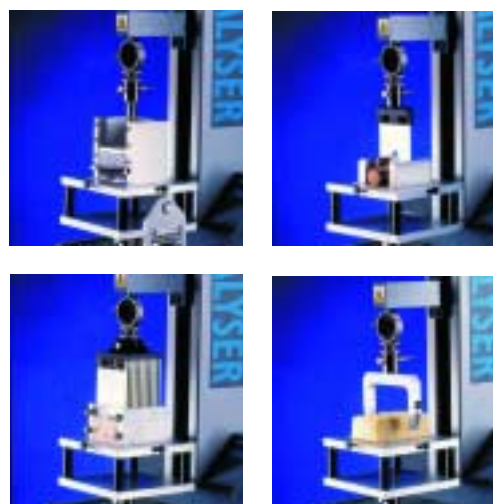
Accessories

Item	Part No.
Loadcells:	
0.51 kgf (5 N, 1 lbf)	01/2946
1.02 kgf (10 N, 2 lbf)	01/2360
2.04 kgf (20 N, 4 lbf)	01/2950
5.1 kgf (50 N, 11 lbf)	01/2361
10.2 kgf (100 N, 22 lbf)	01/2480
25.5 kgf (250 N, 55 lbf)	01/3048
51 kgf (500 N, 110 lbf)	01/2362
102 kgf (1000 N, 225 lbf)	01/2419

Application Software: NEXYGEN™ MT	40/0658
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Grips & Fixtures:	
Back Extrusion Food Cell	01/2760
Butter Cutting Jig	01/2664
Kramer Type Shear Cell	01/2754
Ottawa Forward Extrusion Cell	01/2758
Warner Bratzler Shear Blade Set	01/2767
Spaghetti / Noodle Testing Fixture	01/2659
Food Three Point Bend Jig	01/2756
Volodkevitch Bite Set	01/2663
Magnus Taylor Puncture Probe Set	01/1134
Texture Probe Set	01/1114
Texture Analysis Ball Probes	(diameter range 1/4 - 1 in)
Texture Analysis Cone Probes	(cone angles 15° - 90°)
Texture Analysis Cylinder Probes	(diameter range 1/4 - 4 in)
Bakery Accessories Kit	01/2696
Confectionery Accessories Kit	01/2698
Dairy Accessories Kit	01/2697
General Food Probe Kit	01/2695

Work Tables:	
Expanded Work Table (350 mm x 400 mm) with M6 tapped holes for custom fixings:	SPK/LFM/0007
Expanded Work Table (350 mm x 400 mm) with 10 - 32 tapped holes for custom fixings:	SPK/LFM/0008
Aluminium T-Slot Table (180 mm x 340 mm) for adjustable fixings:	SPK/LFM/0009
Drip Tray for food testing:	SPK/LFM/0010



Examples of Texture Analysis grips & fixtures

AMETEK®

TEST AND CALIBRATION INSTRUMENTS

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ISO 9001
Manufacturer