

LLOYD INSTRUMENTS™

LR10KPlus Series

10kN Materials Testing Machine

The LR10KPlus series advanced, twin column, materials testing machine incorporates an extensive range of features making it ideal for performing complex testing applications up to 10 kN (2248 lbf) at a highly affordable price.

The machine is microprocessor controlled and incorporates world proven 32 bit technology for highly accurate load measurement and rapid data acquisition. The integral user interface consists of a side mounted control console with large, positive action membrane switches, allowing complex tests to be performed at the touch of a button. A large, back lit Liquid Crystal Display shows the test and set-up information in an extensive choice of user selectable languages and units. The stand alone system is capable of storing up to 600 test results from a choice of ten programmable test setups, or may be connected via its RS232 output to a personal computer running NEXYGEN™ software, providing almost unlimited testing and results processing capability.

The high stiffness frame incorporates a crosshead guidance system to prevent side loading of the sample under test. The crosshead is driven by twin lead screws and a high precision servo motor and DC servo system to achieve a wide range of speeds throughout the full load range. A range of highly accurate, interchangeable loadcells are available for tension, compression and cycling through zero force measurements. An extensive range of grips and fixtures are also available to support virtually any type of test. The system is ideal for use in production, quality control, educational and research environments.

Features

- Simple to set up, operate and maintain
- 2 key press operation
- High accuracy load measurement
- Data sampling rate 8 kHz
- 32 bit micro controller
- Saves 600 test results
- 10 programmable test set-ups
- Extension resolution < 0.1 micron
- Long crosshead travel 975 mm (38.39 in)
- Multi lingual display options
- Multi unit display options
- Full PC integration with NEXYGEN MT software
- Wide selection of load cells, grips, jigs and accessories
- Flash upgradeable

Specifications

Force Capacity:	10 kN (2248 lbf)
Crosshead Speed:	0.01 to 510 mm/min 0.0004 to 20.08 in/min
Speed Accuracy:	< 0.2%
Travel: LR10KPlus	950 mm, 37.40 in
LR10KPlus-E	1465 mm, 57.68 in
Load Resolution:	< 0.005% of load cell used (max)
Extension Resolution:	< 0.1 micron
Data Sampling Rate:	8 kHz
Extensometer Inputs:	Digital and Analogue Extensometer
Data Outputs:	Digital - RS232 Analogue - 10V dc max (optional)
Load Measuring System:	Exceeds the requirements of BS EN ISO 7500-1, ASTM E4, DIN 51221.
Analysis Software:	NEXYGEN MT Data Analysis Software and Ondio Applications Builder Software (optional)
Supply Voltage:	115/230V ac ± 10% 50 - 60Hz
Weight:	105Kg (231lb)
Operating Temp:	5°C to 35°C (40°F to 95°F)
Warranty:	1 year



SPECIFICATION
SS-MT-6211-0903
September 2003

INTERNET
www.ametek.com
www.lloyd-instruments.co.uk

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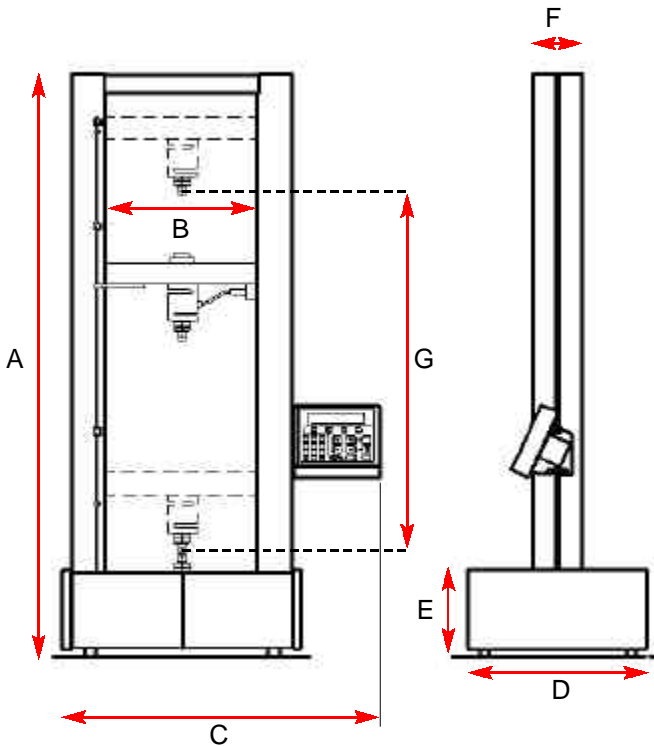
Ordering Information

Model	Part No.	Description
LR10KPlus	01/3052	LR10KPlus with console
LR10KPlus	01/3078	LR10KPlus Extended column with console
LR10KPlus	01/3080	LR10KPlus Pogo design* with console

* Note "Pogo Design" denotes machine designed to perform tests mounted above floor standing compression cage.

Machine Dimensions

		mm	in
A	Machine Height	1565	61.61
B	Working Width	404	15.91
C	Machine Width	845	33.27
D	Machine Depth	480	18.90
E	Base Height	230	9.06
F	Column Depth	130	5.12
G	Maximum Travel	950	37.40



Standard Accessories

LOADCELLS:

5 N (1.12 lbf)
 10 N (2.25 lbf)
 20 N (4.5 lbf)
 50 N (11.25 lbf)
 100 N (22.5 lbf)
 250 N (56.25 lbf)
 500 N (112.5 lbf)
 1000 N (225 lbf)
 2500 N (562.5 lbf)
 5000 N (1124 lbf)
 10 kN (2248 lbf)

ITEM

MODEL

XLC-0005-A1 01/2946
 XLC-0010-A1 01/2360
 XLC-0020-A1 01/2950
 XLC-0050-A1 01/2361
 XLC-0100-A1 01/2480
 XLC-0250-A1 01/3048
 XLC-0500-A1 01/2362
 XLC-1000-A1 01/2419
 XLC-2500-A1 01/2363
 XLC-5000-A1 01/2364
 XLC-10K-A1 01/2365

EXTENSOMETERS:

A comprehensive range of contacting and non contacting extensometers are available. For further information see specification sheet number :

SS-MT-6603

SOFTWARE:

NEXYGEN MT Software Package
 NEXYGEN MT/ONDIO Software Suite

40/0658
 40/0695

GRIPS & FIXTURES:

All grips up to a capacity of 10 kN (2248 lbf) can be fitted.

MISCELLANEOUS:

Standard

RS232 Cable, 9 Pin
 Cable, Control Console (External)
 Operators' Manual
 Hex Key, 5 mm (0.20 in)
 Spanner Wrench, 42 mm (1.65 in)
 Grip Pin, 5/8 in Eye End
 Loadcell Mounting Adapter M12

09/0639
 09/0710
 01/3083
 92/0293
 SPT/0244/00
 PIT/0169/00
 ADT/0148/00

Optional

RS232 Adapter, 9 Pin to 25 Pin

ADT/0140/00

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 TEST AND CALIBRATION INSTRUMENTS

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