

LLOYD INSTRUMENTS™

LR30K Plus Series

30kN Materials Testing Machine

The LR30K Plus Series advanced, twin column, materials testing machine incorporates an extensive range of features making it ideal for performing complex testing applications up to 30 kN (6744 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™ MT 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 < 0.01 micron
- Long crosshead travel 870 mm (34.25 in)
- Multi lingual display options
- Multi unit display options
- Full PC integration with NEXYGEN MT software
- Wide selection of loadcells, grips, jigs and accessories
- Flash upgradeable

Specifications

Force Capacity:	30 kN (6744 lbf)
Crosshead Speed:	0.001 to 510 mm/min 0.00004 to 20.08 in/min
Speed Accuracy:	< 0.2%
Travel: LR30K Plus	870 mm, 34.25 in
LR30K Plus-E	1350 mm, 53.15 in
Load Resolution:	< 0.005% of load cell used (max)
Extension Resolution:	< 0.01 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:	125Kg (275 lb)
Operating Temp:	5°C to 35°C (40°F to 95°F)
Warranty:	1 year



SPECIFICATION
SS-MT-6264-0903
September 2003

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

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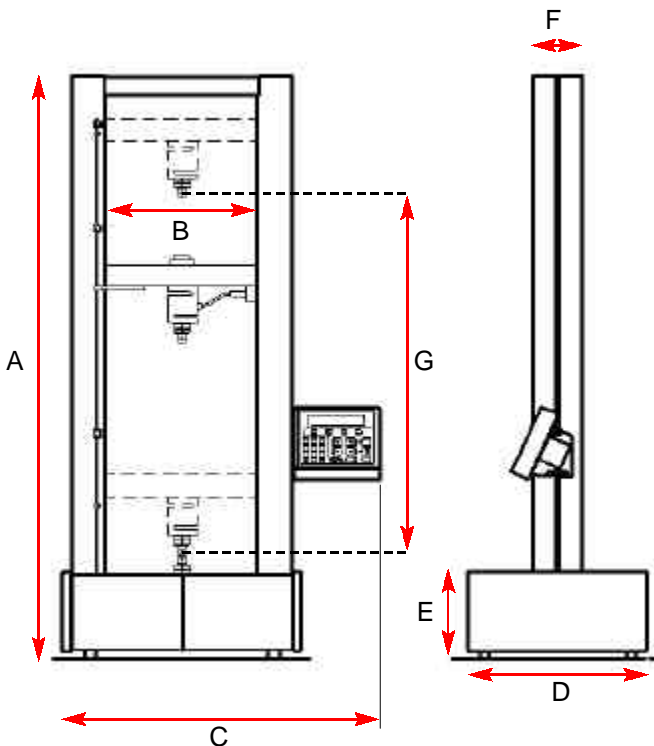
Ordering Information

Model	Part No.	Description
LR30KPlus	01/3160	LR30KPlus with Console
LR30KPlus	01/3192	LR30KPlus Extended Column with Console
LR30KPlus	01/3217	LR30KPlus Pogo Design* with Console

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

Machine Dimensions

		mm	in
A	Machine Height	1565	61.6
B	Working Width	404	15.9
C	Machine Width	893	35.2
D	Machine Depth	596	23.5
E	Base Height	240	9.5
F	Column Depth	150	5.9
G	Maximum Travel	870	33.7



LR30KPlus Series 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)
 20 kN (4496 lbf)
 30 kN (6744 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
 XLC-20K-A1 01/2417
 XLC-30K-A1 01/2366

INTERFACE CABLES:

RS232 Cable, 9 Pin
 RS232 Adapter, 9 Pin to 25 Pin
 Cable, Control Console (External)

09/0639
 ADT/0140/00
 09/0710

SOFTWARE:

NEXYGEN MT Software Package
 NEXYGEN MT/ONDIO Software Suite

40/0658
 40/0695

MISCELLANEOUS:

Standard

Cable, Control Console (External)
 Operators' Manual
 Hex Key, 5 mm (0.20 in)
 Spanner Wrench, 42 mm (1.65 in)
 Anchor Pin, 5/8 in
 Anchor Pin, 1.25 in
 Grip Pin, 1.25 in Eye End
 Grip Pin, 5/8 in Eye End
 Loadcell Mounting Adapter M20
 Loadcell Mounting Adapter M12

09/0710
 01/3083
 92/0293
 SPT/0244/00
 PIN/0258/00
 PIN/0257/00
 PIT/0061/00
 PIT/0169/00
 ADT/0151/00
 ADT/0148/00

Optional

Splinter Shield

01/3095

AMETEK®
 TEST AND CALIBRATION INSTRUMENTS

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ISO 9001