

LRXPlus 5 kN Universal Materials Testing Machine

The LRXPlus universal testing system is ideal for materials testing applications up to 5 kN (1124 lbf). Suitable for both routine and complex test applications, the standard LRXPlus features a single column design with a crosshead travel range of 735 mm (29 in). Extended machine column options (LRXPlus-E models) for testing high elongation materials are also available.

This bench mounted machine is microprocessor controlled and incorporates world proven 32 bit technology for highly accurate load measurement and rapid data acquisition.

The LRXPlus features an integral control console with large, positive action membrane keys, allowing complex tests to be performed at the touch of a button. A back lit 4 line LCD display shows the test and set-up information in a wide 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 set-ups. Test parameters are entered using the keypad in a sequential menu driven format.

For additional flexibility, the LRXPlus can also be connected to a personal computer with optional Lloyd Instruments NEXYGENPlus material test and control software. NEXYGEN software provides almost unlimited testing and results processing capability in a familiar Windows® environment.

A series of highly accurate, interchangeable load cells is available for tension, compression and cycling through zero force measurements. Our extensive range of grips and fixtures 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
- High accuracy load measurement
- Constant load holding
- Data sampling rate 8 kHz
- Load rate control
- Saves up to 600 test results
- 10 programmable test set ups
- Pre-loading of samples and cycling to load or extension limits
- Multi-stage testing with NEXYGENPlus software
- Extension resolution < 0.1 microns
- Multi-lingual display options
- Multi-unit display options
- Flash upgradeable
- Extended column options for testing high extension materials
- Wide selection of load cells, grips, jigs, extensometers, temperature chambers and other accessories

Specifications

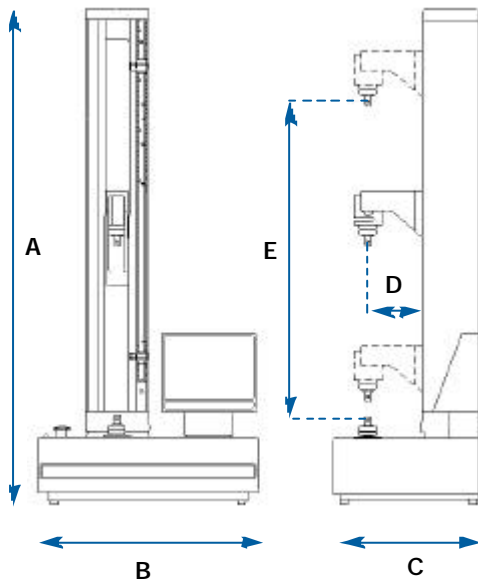
Force Capacity:	
LRXPlus (Standard)	5 kN (1124 lbf)
LRXPlus-E (Extended)	2.5 kN (562 lbf)
Crosshead Speed Range:	0.01 to 1016 mm/min (0.0004 to 40 in/min)
Speed Accuracy:	<0.2% at steady state
Maximum Crosshead Travel:	
LRXPlus	735 mm (29 in)
LRXPlus-E	1370 mm (54 in)
Throat Depth:	135 mm (5.3 in)
Minimum Load Resolution:	0.0001 N (load cell specific)
Load Cell Accuracy:	<0.5%
Extension Resolution:	<0.1 microns
Data Sampling Rate:	8 kHz
Display:	40 character x 4 line backlit LCD
Extensometer Inputs:	Digital and Analogue
Load Measuring System:	EN ISO 7500:2004 Class 0.5 ASTM E4
Software:	NEXYGENPlus Data Analysis Software (optional)
Supply Voltage:	230Vac ±10%, 50-60 Hz, Fuse T3.15AH250V 115Vac ±10%, 50-60 Hz, Fuse T6.3AH250V
Weight:	
LRXPlus	50 kg (110 lb)
LRXPlus -E	52 kg (115 lb)
Operating Temperature:	5° to 35°C (41° to 95°F)



Accessories

Item	Part No	Item	Part No
XLC Series Load Cells:		Extensometers:	
5 N (1.12 lbf)	01/2946	A comprehensive range of contacting and non-contacting extensometers are available. For further information see our extensometer specification sheets.	
10 N (2.25 lbf)	01/2360	Splinter Shields	
20 N (4.5 lbf)	01/2950	Splinter shield without electrical interlock 07/2058/F	
50 N (11.25 lbf)	01/2361	(lower shield suitable for fixtures/samples up to 125 mm (4.92 in) in diameter)	
100 N (22.5 lbf)	01/2480	Splinter shield with electrical interlock 01/3064	
250 N (56.25 lbf)	01/3048	(lower shield suitable for fixtures/samples up to 125 mm (4.92 in) in diameter)	
500 N (112.5 lbf)	01/2362	Larger shields are available on request	
1000 N (225 lbf)	01/2419		
2500 N (562.50 lbf)	01/2363		
5000 N (1124 lbf)	01/2364		
Application Software:		LRXPlus-CC Large Compression Cage Option	
NEXYGENPlus	40/0771	The LRXPlus machine can be ordered mounted above a floor standing compression cage for larger sample testing. Contact Lloyd Instruments to discuss your specification needs.	
Grips & Fixtures:			
A wide range of grips and fixtures are available. For further information see our grip specification sheets.			

Machine Dimensions



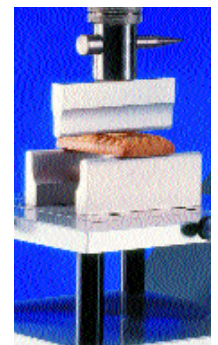
	mm	in
A (Standard machine height)	1260	49.6
A (Extended machine height)	1995	78.5
B	564	22.2
C	400	15.7
D	135	5.3
E (Standard machine travel)	735	29.0
E (Extended machine travel)	1370	54.0



Tensile test



Compression test



Flexure test

Ordering Information

Model	Part No	Capacity	Description
LRXPlus	01/2962	5 kN (1124 lbf)	LRXPlus Materials Testing Machine with Console
LRXPlus-E	01/2990	2.5 kN (562 lbf)	LRXPlus Materials Testing Machine (Extended) with Console

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