

LRXPlus SERIES

Materials Testing Machine

The LRXPlus Series motorised test stand is ideal for material testing applications with capacities up to 5kN (1100 lbf). Ideal for complex testing applications and testing high elongation materials. The LRXPlus features a single column with a crosshead travel range of 735 mm (29 inches).

The LRXPlus features an integral control console with membrane multi-function key pad and easy to read back-lit LCD display. Load and extension are displayed, and may be indicated in user-selectable units. The system is capable of storing up to 600 test results from a choice of 10 programmable test set-ups. Test parameters are entered using the keypad in a sequential menu driven format, or externally with a personal computer and the optional NEXYGEN™ data analysis software. RS232 serial data communications are standard.

A range of highly accurate, interchangeable load cells are available for tension, compression and cycling through zero force measurements. A wide assortment of grips and fixtures are available to support virtually any type of test.

FEATURES

- Simple set-up, operation and maintainance
- Constant Load Holding
- Data Sampling Rate 1000 Hz
- Load Rate Control
- Preloading of samples and cycling to load or extension limits
- Multi-Stage Testing with NEXYGEN™
- Extension resolution better than 0.1 microns
- Multi lingual, Multi unit display options
- Full PC integration
- Wide selection of load cells, grips, jigs and accessories

SPECIFICATIONS

Force Range	5 kN (1100 lbf)
Crosshead Speed	0.01 to 1020 mm/min 0.0004 to 40 inches/min
Speed Accuracy	< 0.2%
Travel (LRXPLUS)	1 to 735 mm 0.04 to 29 inches
Travel (LRXPLUS-E) (2.5kN 562 lbf)	1 to 1370 mm 0.04 to 54 inches
Load Resolution	< 0.005% of load cell used
Extension Resolution	< 0.1 micron
Data Sampling Rate	1000 Hz
Extensometer Inputs	DC analogue input socket (for 1V/10V/Strain gauge)
Data Outputs	Digital - RS232 Analogue - 10Vdc max
Measuring System	Exceeds the requirements of BS EN ISO 7500: 1999. Class 0.5 or Class1, ASTM E4, DIN 51221
Analysis Software	NEXYGEN™ Data Analysis Software (optional)
Supply Voltage	115/230 V ac ± 10% 50 - 60 Hz
Weight:	50 kg (110 lb)
Operating Temp	5° to 35°C (40°F to 95°F)
Warranty:	1 Year

SPECIFICATION
SS-MT-6150-0101
January 2001

INTERNET

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

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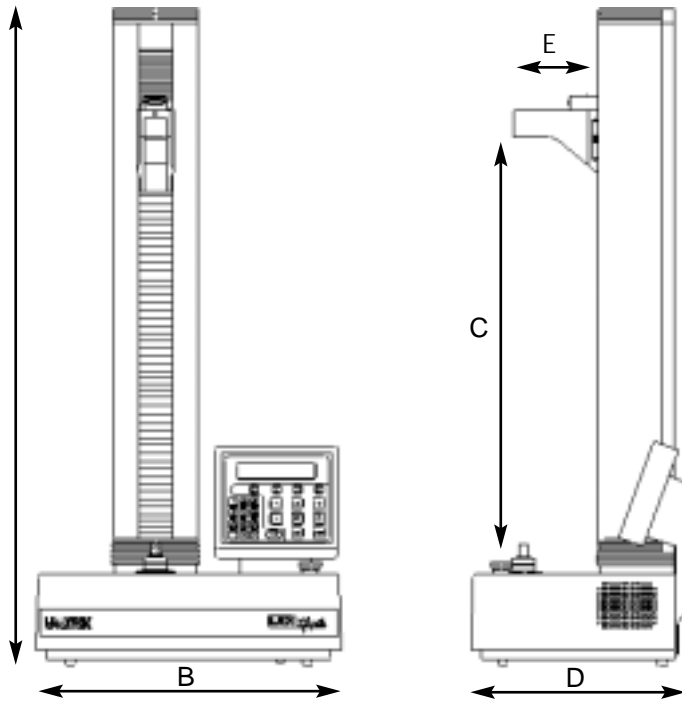


LLOYD
INSTRUMENTS
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ORDERING INFORMATION

Model	Part No.	Description
LRXPlus	01/2962	Single Column, Bench Mounted, Materials Testing System (with console)
LRXPlus	01/2970	Single Column, Bench Mounted, Materials Testing System (without console)
LRXPlus-E	01/2990	2.5 kN (562 lbf) Extended Column, Bench Mounted, Materials Testing System (with console)
LRXPlus-E	01/2999	2.5 kN (562 lbf) Extended Column, Bench Mounted, Materials Testing System (without console)

LRXPlus DIMENSIONS



Part	Length (mm)	Length (in)
A	1260mm	50.0in
B	564mm	22.2in
C	795mm	31.3in
D	390mm	15.4in
E	135mm	5.25in

STANDARD ACCESSORIES

LOADCELLS:

5 N (1 lbf)
 10 N (2 lbf)
 20 N (4 lbf)
 50 N (11 lbf)
 100 N (22 lbf)
 250 N (55 lbf)
 500 N (110 lbf)
 1000 N (220 lbf)
 2500 N (550 lbf)
 5000 N (1100 lbf)

ITEM

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

MODEL

EXTENSOMETERS:

Non Contacting Extensometer (115V) with stand
 Non Contacting Extensometer (230V) with stand
 Extensometer Punch (applies 2 mm, 0.08 in) targets
 Extensometer Punch (applies 4 mm, 0.16 in) targets
 Longtravel Extensometer without stand
 Extensometer Stand for EXL750
 High Res' Longtravel Extensometer with stand

LASERSCAN E1 01/2939
 LASERSCAN EZ 01/2913
 TTOXP/2 01/1159
 TTOXP/4 01/1156
 EXL750 EZ 01/2914
 EXT STAND A 01/2314
 CS3852 CS3852

High Res' Strain Gauge Extensometers:

Gauge Length 10mm (0.40 in) max elongation 10%
 Gauge Length 10mm (0.40 in) max elongation 50%
 Gauge Length 20mm (0.80 in) max elongation 100%
 Gauge Length 25mm (0.98 in) max elongation 5%
 Gauge Length 25mm (0.98 in) max elongation 10%
 Gauge Length 25mm (0.98 in) max elongation 25%
 Gauge Length 25mm (0.98 in) max elongation 50%
 Gauge Length 25mm (0.98 in) max elongation 100%
 Gauge Length 50mm (1.97 in) max elongation 5%
 Gauge Length 50mm (1.97 in) max elongation 25%
 Gauge Length 50mm (1.97 in) max elongation 50%
 Gauge Length 50mm (1.97 in) max elongation 100%
 Gauge Length 80mm (3.15 in) max elongation 10%
 Gauge Length 80mm (3.15 in) max elongation 25%

STGA/10/10E 01/2917
 STGA/10/50E 01/2959
 STGA/20/100E 01/2976
 STGA/25/5E 01/2955
 STGA/25/10E 01/2918
 STGA/25/25E 01/2919
 STGA/25/50E 01/2920
 STGA/25/100E 01/2921
 STGA/50/5E 01/2957
 STGA/50/25E 01/2922
 STGA/50/50E 01/2923
 STGA/50/100E 01/2924
 STGA/80/10E 01/2925
 STGA/80/25E 01/2926

SOFTWARE:

NEXYGEN™ 4.0 Software Package
 NEXYGEN™ Upgrade to Version 4.0
 ONDIO Application Builder (Use With NEXYGEN)
 NEXYGEN/ONDIO Software Suite
 NEXYGEN/ONDIO Upgrade

40/0658
 40/0658/NR
 40/0683
 40/0695
 40/0695/U

GRIPS & FIXTURES:

All grips up to a capacity of 10 kN (2200 lbf) can be fitted.



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ISO 9001
 Manufacturer