

LRX SERIES

Materials Testing Machine

The LRX single column, bench mounted materials testing system provides a complete solution for testing applications with capacities up to 2.5kN (550 lbf). Tension and compression testing with cycling to load and extension limits are standard features. Load and extension are displayed on a highly legible LCD display console, selectable in a variety of units. Multi-lingual instructions are displayed in a sequential menu driven format, allowing test set-up and operation to be achieved rapidly and efficiently. The extension measurement system uses a digital encoder to achieve high resolution throughout its extension ranges.

The LRX can be further enhanced with Lloyd Instruments state of the art materials test and results analysis software NEXYGEN™ thanks to a supplied RS232 interface. The system is ideal for batch testing in production or routine quality control checks. Alternatively, it can be configured as a sophisticated research grade machine incorporating multi-stage testing for product development and complex research applications.

FEATURES

- Simple to set-up, operate and maintain
- High accuracy load measurement
- Rapid data acquisition
- Continuous cycling between extension and load limits
- Extension resolution better than 5 microns
- Multi lingual, Multi unit display options
- Full PC integration
- Wide selection of load cells, grips, jigs and accessories

SPECIFICATIONS

Force Range:	2.5kN (550 lbf)
Crosshead Speed:	0.1 to 1020 mm/min 0.005 to 40 inches/min
Speed Accuracy:	< 0.2%
Stroke (LRX)	1 to 750 mm 0.04 to 30 inches
Stroke (LRX-E)	1 to 1500 mm 0.04 to 60 inches
Load Resolution:	< 0.005% of load cell used (max)
Extension Resolution:	< 5 microns
Data Sampling Rate:	40Hz
Extensometer Inputs:	+10V dc analogue input (optional)
Data Outputs:	Digital - RS232 Analogue - 10Vdc max
Measuring System:	Exceeds the requirements of BS EN ISO 7500:1999. Class 0.5, ASTM E4, DIN 51221.
Analysis Software:	NEXYGEN™ Data Analysis Software (optional)
Supply Voltage:	115/230Vac ± 10% 50 - 60Hz
Weight:	54kg (119lb)
Operating Temp:	5° to 35°C (40°F to 95°F)
Warranty:	1 year

SPECIFICATION
SS-MT-6125-0101
January 2001

INTERNET

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

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INSTRUMENTS

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ORDERING INFORMATION

Model	Part No.	Description
LRX	01/2005	Single Column, Bench mounted Materials Testing System
LRX-E	01/2112	Extended model
LRXCC	01/2753	Compression cage model

LRX DIMENSIONS

Column Depth	145mm	5.7in
Machine Height	1258mm	49.5in
Base Height	170mm	6.7in
Machine Width	564mm	22.2in
Machine Depth	379mm	14.9in
Console Width	within footprint of the machine	
Console Depth	within footprint of the machine	
Console Height	within footprint of the machine	
Column to eye end	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

MODEL

LRX-0005-A1	01/2968
LRX-0010-A1	01/2322
LRX-0020-A1	01/2600
LRX-0050-A1	01/2321
LRX-0100-A1	01/2320
LRX-0250-A1	01/2992
LRX-0500-A1	01/2164
LRX-1000-A1	01/2163
LRX-2500-A1	01/2131
LRX-5000-A1	01/2317

EXTENSOMETERS:

Non Contacting Extensometer (115V) with stand	LASERSCAN L1	01/2940
Non Contacting Extensometer (230V) with stand	LASERSCAN LR	01/2932
Extensometer Punch (applies 2 mm, 0.08 in) targets	TTOXP/2	01/1159
Extensometer Punch (applies 4 mm, 0.16 in) targets	TTOXP/4	01/1156
Longtravel Extensometer without stand	EXL750 LR	01/2247
Extensometer Stand for EXL750	EXT STAND A	01/2314

Strain Gauge Extensometers require special amplifier

SOFTWARE:

NEXYGEN™ 4.0 Software Package	40/0658
NEXYGEN™ Upgrade to Version 4.0	40/0658/NR
ONDIO Application Builder (Use With NEXYGEN)	40/0683
NEXYGEN/ONDIO Software Suite	40/0695
NEXYGEN/ONDIO Upgrade	40/0695/U

GRIPS & FIXTURES:

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

All machines are capable of testing in tension, compression, flexure, friction, tear, peel, and adhesion modes - plus many more.

AMETEK

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ISO 9001
Manufacturer