

# LRX PLUS SERIES

## Materials Testing Machine

The LRX Plus 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 LRX Plus features a single column with a crosshead travel range of 735 mm (29 inches).

The LRX Plus 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

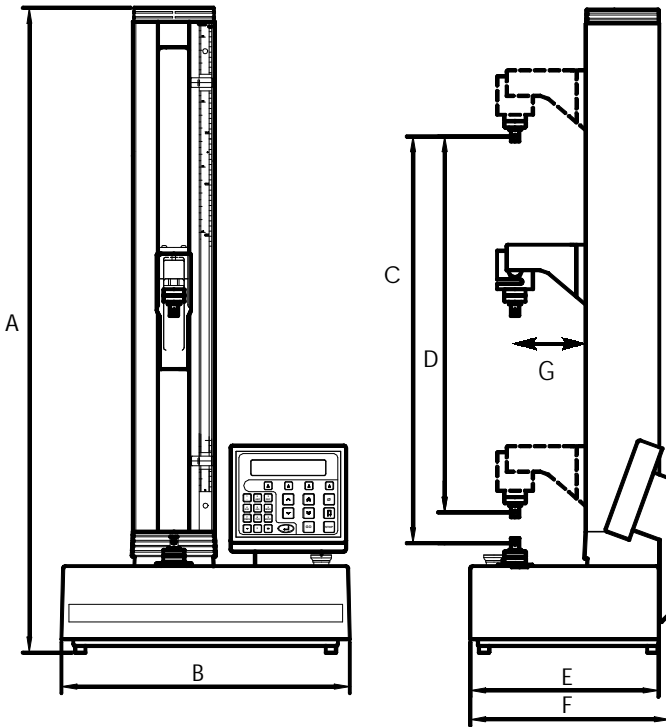
**SPECIFICATION**  
SS-MT-6150-0101  
January 2001



## 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 lbs) Extended Column, Bench Mounted, Materials Testing System (with console)
LRXPLUS-E	01/2999	2.5 kN (562 lbs) Extended Column, Bench Mounted, Materials Testing System (without console)

## LRX PLUS DIMENSIONS



Part	Length (mm)	Length (in)
A	1260mm	50.0in
B	564mm	22.2in
C	795mm	31.3in
D	735mm	29.0in
E	368mm	14.5in
F	390mm	15.4in
G	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	01/2992
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	LASERSCAN E1	01/2939
Non Contacting Extensometer (230V) with stand	LASERSCAN EZ	01/2913
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 EZ	01/2914
Extensometer Stand for EXL750	EXT STAND A	01/2314
High Res' Longtravel Extensometer with stand	CS3852	CS3852

### High Res' Strain Gauge Extensometers:

Gauge Length 10mm (0.40 in) max elongation 10%	STGA/10/10E	01/2917
Gauge Length 10mm (0.40 in) max elongation 50%	STGA/10/50E	01/2959
Gauge Length 20mm (0.80 in) max elongation 100%	STGA/20/100E	01/2976
Gauge Length 25mm (0.98 in) max elongation 5%	STGA/25/5E	01/2955
Gauge Length 25mm (0.98 in) max elongation 10%	STGA/25/10E	01/2918
Gauge Length 25mm (0.98 in) max elongation 25%	STGA/25/25E	01/2919
Gauge Length 25mm (0.98 in) max elongation 50%	STGA/25/50E	01/2920
Gauge Length 25mm (0.98 in) max elongation 100%	STGA/25/100E	01/2921
Gauge Length 50mm (1.97 in) max elongation 5%	STGA/50/5E	01/2957
Gauge Length 50mm (1.97 in) max elongation 25%	STGA/50/25E	01/2922
Gauge Length 50mm (1.97 in) max elongation 50%	STGA/50/50E	01/2923
Gauge Length 50mm (1.97 in) max elongation 100%	STGA/50/100E	01/2924
Gauge Length 80mm (3.15 in) max elongation 10%	STGA/80/10E	01/2925
Gauge Length 80mm (3.15 in) max elongation 25%	STGA/80/25E	01/2926

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



TEST AND CALIBRATION INSTRUMENTS

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