

## LR300K 300 kN Universal Materials Testing Machine

The LR300K advanced materials testing machine provides a complete solution for complex as well as routine testing applications up to 300 kN (67443 lbf). The LR300K is a floor standing machine featuring a twin column design with a maximum crosshead travel of 1295 mm (51 in).

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, 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.

A working test space between the machine columns of 620 mm (24.4 in) combined with a total crosshead displacement of 1295 mm (51 in) can accommodate a wide variety of samples and materials for accurate and consistent testing.

For enhanced testing and additional flexibility, the LR300K can also be connected to a personal

computer with optional Lloyd Instruments NEXYGEN™ MT material test and control software. NEXYGEN software provides almost unlimited testing and results processing capability in a familiar Windows® environment.

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 drive system to achieve a wide range of speeds throughout the full load range.

The LR300K is supplied complete with a 300 kN (67443 lbf) factory fitted load cell. A series of additional 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
- Rapid data acquisition
- Large testing area
- Pre-loaded lead screws
- Pre-loading of samples and cycling to load or extension limits
- Multi-stage testing with NEXYGEN MT software
- Extension resolution <0.03 microns
- Multi-lingual display options
- Multi-unit display options
- Wide selection of load cells, grips, jigs, extensometers, temperature chambers and other accessories

### Specifications

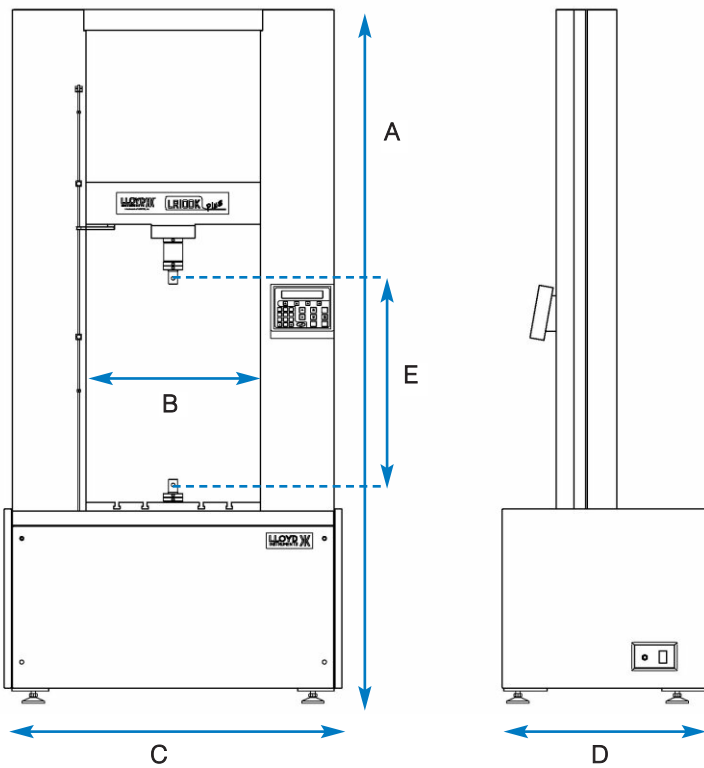
Force Capacity:	300 kN (67443 lbf)
Crosshead Speed:	0.01 to 254 mm/min (0.0004 to 10 in/min)
Speed Accuracy:	< 0.2% at steady state
Maximum Crosshead Travel:	1295 mm (51 in)
Width Between Columns:	620 mm (24.4 in)
Minimum Load Resolution:	0.0001 N (load cell specific)
Load Cell Accuracy:	<0.5%
Extension Resolution:	<0.03 microns
Data Sampling Rate:	100 Hz
Display:	LCD
Extensometer Inputs:	Analogue
Load Measuring System:	EN ISO 7500:2004 Class 0.5 ASTM E4
Software:	NEXYGEN MT Data Analysis Software and Ondio Applications Builder Software (optional)
Supply Voltage:	3 phase, 4-wire supply, 380-440V (please specify) supplied with 5 m (16 ft 4 in) of 4-core cable
Weight:	1200 kg (2647 lb)
Operating Temperature:	5° to 35°C (41° to 95°F)



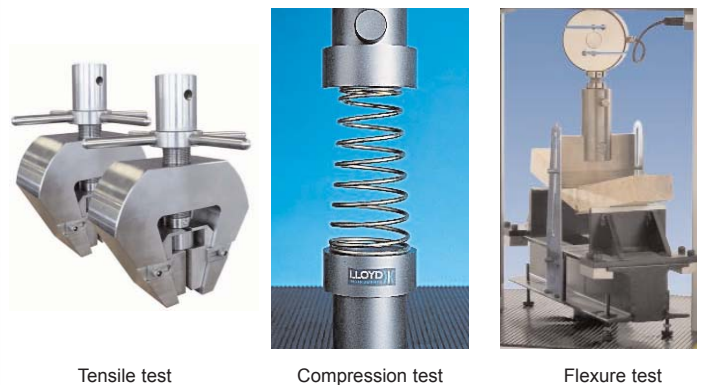
## Accessories

Item	Part No	Item
<b>HLC Series Load Cells:</b>		<b>Grips &amp; Fixtures:</b>
50 N (11.25 lbf)	01/2936	A wide range of grips and fixtures are available. For further information see our grip specification sheets.
100 N (22.5 lbf)	01/2413	
500 N (112.5 lbf)	01/3213	<b>Extensometers:</b>
1000 N (225 lbf)	01/2412	We supply contacting and non-contacting extensometers. For further information see our extensometer specification sheets.
2500 N (562.5 lbf)	01/3214	
5000 N (1124 lbf)	01/2944	
10 kN (2248 lbf)	01/2411	
20 kN (4496 lbf)	01/3215	
30 kN (6744 lbf)	01/2978	
50 kN (11241 lbf)	01/3101	<b>Temperature Chambers and High Temperature Furnaces:</b>
300 kN (67443 lbf)	01/2392	A range of thermal chambers and furnaces are available. For further information see our specification sheets.
<b>Application Software:</b>		<b>Splinter Shields:</b>
NEXYGEN™ MT	40/0658	Splinter shields can be supplied to your specific requirements. Contact Lloyd Instruments for further information.
NEXYGEN™ MT/Ondio software suite	40/0695	

## Machine Dimensions



	mm	in
A	2674	105.3
B	620	24.4
C	1509	59.4
D	733	29.9
E	1295	51.0



Tensile test

Compression test

Flexure test

## Ordering Information

Model	Part No	Capacity	Description
LR300K	01/2338	300 kN (67442 lbf)	LR300K Materials Testing Machine with Console

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