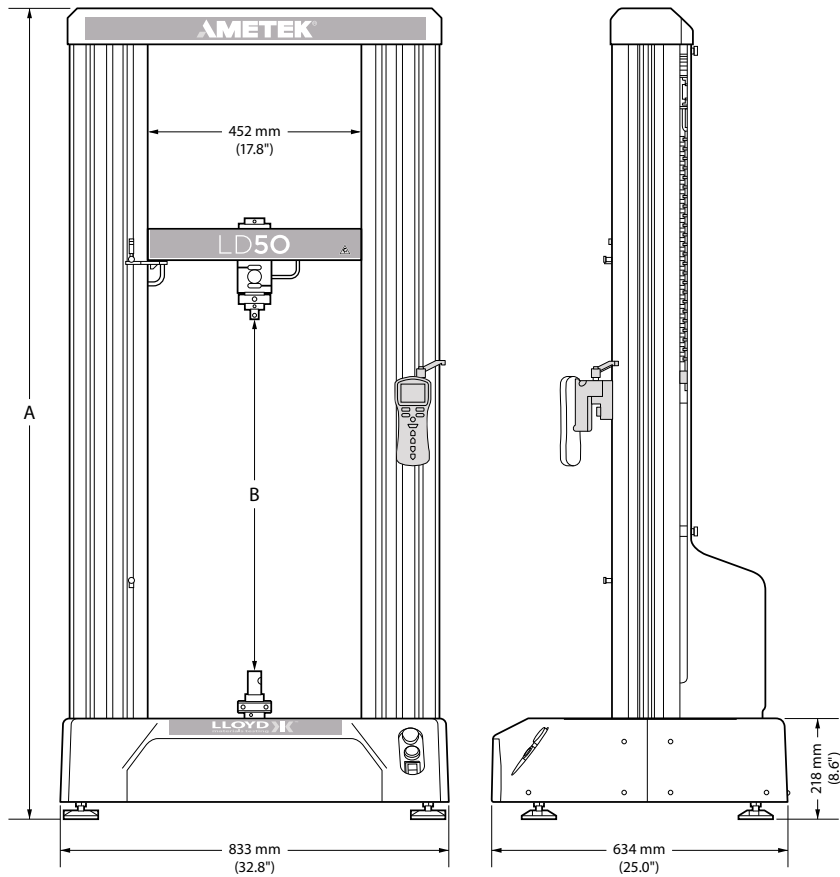


# LD Series

5-100 kN Materials Testing



# Specifications



A	Standard Machine Height	1728 mm / 68 in
	Extended Machine Height	2363 mm / 93 in
B	Standard Crosshead Travel	1070 mm / 42 in
	Extended Crosshead Travel	1669 mm / 65.7 in

Force Capacity	
LD5	5 kN / 1124 lbf
LD10	10 kN / 2248 lbf
LD30	30 kN / 6744 lbf
LD50	50 kN / 11240 lbf
LD100	100 kN / 22480 lbf

Crosshead Speed Range	
LD5	0.0001 to 1270 mm/min / 0.000004 to 50 in/min
LD10	0.0001 to 1270 mm/min / 0.000004 to 50 in/min
LD30	0.0001 to 1000 mm/min / 0.000004 to 40 in/min
LD50	0.0001 to 500 mm/min / 0.000004 to 20 in/min
LD100	0.0001 to 250 mm/min / 0.000004 to 10 in/min

Return Speed	
LD5	1270 mm/min / 50 in/min
LD10	1270 mm/min / 50 in/min
LD30	1000 mm/min / 40 in/min
LD50	650 mm/min / 26 in/min
LD100	325 mm/min / 10 in/min

Speed Accuracy	
0.1%	

Crosshead Travel	
Standard Height	1070 mm / 42 in
Extended Height	1669 mm / 65.7 in

The LD100 is available in only a standard height version.

Width Between Columns	
452 mm / 17.8 in	

Extension Resolution	
LD5/10	0.000354 µm per encoder count
LD30	0.000214 µm per encoder count
LD50	0.000121 µm per encoder count
LD100	0.000063 µm per encoder count

µm = micron.

Load Cell	
Load Cell Accuracy	< ± 0.5% of reading down to 1/100 of load cell capacity
Resolution	32-bit A/D converter
Min. Load Resolution	1 part in 10 <sup>9</sup>

Extensometer Inputs	
Analog and Digital	

Data Transfer Rate to PC	
1 kHz	

Supply Voltage	
207-253 VAC at 50 Hz or 103.5-126.5 VAC at 60 Hz	

Load Measuring System	
EN ISO 7500-1:2015 Class 0.5 ASTM E4	

Software	
NEXYGENPlus 4	

Weight	
225 kg / 496 lb	

Operating Temperature	
10 to 40° C / 50 to 104° F	

Control Modes	
Position, Load Rate, and Strain Rate control	

## LD Series Accessories Ordering Information

Part Number	Description
01/5041	LD Tablet with mount assembly, USB cable and cable management kit
01/5042	NEXYGEN <i>Plus</i> and LD Tablet with mounting arm assembly, USB cable and cable management kit
40/0783	NEXYGEN <i>Plus</i> 4 Software (optional)

## LD Series Ordering Information

Order Number	Description
LD	LD Series
	<b>Model</b>
5	5 kN / 1124 lbf
10	10 kN / 2248 lbf
30	30 kN / 6744 lbf
50	50kN / 11240 lbf
100	100 kN / 22480 lbf
	<b>Travel</b>
S	Standard Travel
E	Extended Travel
P	Standard Travel POGO Design*
X	Extended Travel POGO Design**
	<b>Operation</b>
H	Hand-Held Remote
C	Main Console
	<b>Power</b>
115 V	US Power Cord
230 V	UK and Euro Power Cord
230V-CNAU	China and Australian Power Cord
	<b>Sample Order Number</b>
LD 50 E H 115V	LD Series 50kN model with Extended Travel, Hand-Held Remote and US Power Cord

\* Our unique POGO system allows testing of very large samples with the added benefit of optional elevated and low temperature capability.

\*\* The Extended Travel POGO is not available for the LD100 Model.

For detailed specifications go to the Data Sheet at [ametektst.com](http://ametektst.com)

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