



LLOYD Materials testing

» Test of Rubber and Plastics The 1400 mm crosshead travel makes the unit perfect for test of high elongation materials

 Large Work Area
 150 mm throat depth for larger specimens and wide range of work tables for flexibility

➤ High Speed High precision and improved productivity 0.01-2032 mm/min (0.0004-80 in/min)

» High Mechanical Stiffness Modern linear guide technology, pre-loaded ball screws and advanced software compensation ensures high displacement precision

» Exceptional Load Accuracy Load accuracy of +/- 0.5% down to 1% of load cell value provides a high dynamic range, thereby reducing the number of load cells required to cover the full force range

>> Flexible Controls
Scalable from stand alone operation using a control console or utilising our highly acclaimed NEXYGEN Plus software

» Control Interface PC interface is via USB allowing standard laptops to be used with no special PC interface cards required

» Advanced Test Setup
with NEXYGEN Plus
The Windows * compatible NEXYGEN Plus
software features an improved and
intuitive User Configurable Test
functionality complementing the
comprehensive test standards library
available

2.5 kN / 562 lbf Advanced Material Testing System LS2.5



The LS2.5 is a 2.5 kN / 562 lbf high precision material testing machine that combined with our extensive ra $\,$ nge of grips, fixtures, extensometers and software creates a powerful material testing system. The s $\,$ ystem is equally suited to quality control, educational and R& D environments within a wide range of applications and test types. The system is particularly suited for plastic, rubber and other high elongation materials due to its wide crosshead travel capability.

- Meets or exceeds national and international material test standards
- Intuitive operation and low maintenance
- Small tabletop footprint with a large and flexible work space
- Plug 'n' Play, automatic identification of YLC series load cells
- NEXYGEN Plus provides seamless data transfer to Microsoft Office[®], LIMS and other data management systems

Test Types

Ten sile Testing • Compression Testing • Flexural Testing • Friction • Insertion/Extraction • Peeling • Tearing • Creep/Relaxation













NEXYGEN Plus material testing software is the hub of the Lloyd Instruments materials testing system. This extraordinarily easy to use and flexible software, allows the operator to control and monitor all aspects of the system from a single front end, ensuring fast, reliable and powerful testing and data analysis for tensile, compres sion, peel, creep, frixtion, relaxation and flexural test applica tions.

- La rge built-in library of test methods meeting international test standards
- Intuitive User Configurable Test facility
- · Video and still capture for visual analysis
- Built in SPC functionality for continuous monitoring of process parameters such as Cp and Cpk
- Microsoft Office * integration for seamless transfer of data to familiar Windows * packages, Windows * compatible
- Versatile data export facility to LIMS, SPC or data management systems
- · Test automation and batch testing

Multi-lingual

NE XYGENP lus software is available in the following la nguages: English • Spanish • French • German • Italian • Danish • Turkish • Chinese • Russian • Polish

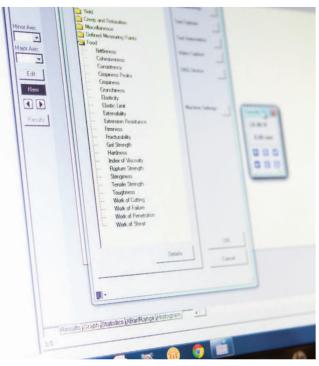
Test Creation

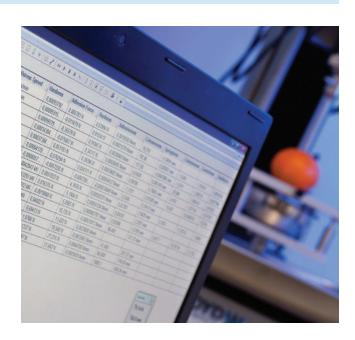
Getting started with NEXYGEN Plus is simple, thanks to:

- An extensive built-in library of test methods covering ASTM, DIN, EN, ISO and other standards
- Test wizards for tension, compression, tearing, peeling, friction and flexural tests
- The User Configurable Test facility, ideal for product and component testing, R&D use and specialised testing

New User Configurable Test

The new U ser Configurable Test enables users to quickly build advanced multi-stage test routines using simple built- in commands.





Video and Still Picture Capture

Whether for advanced sample failure analysis or presentation of test results, video and stills capture is a feature unique to NEXYGEN Plus. Video and/or still pictures can be replayed or shown at specific points during the test in the graphical display. To util ise these powerful features simply connect your web cam or analogue video camera to your PC.

Test Automation and Customisation

To facilitate the increasing use of automation in manufacturing, NEXYGE NPlus has been developed with powerful utilities for systems integration. Typical integration projects include:

- · Automated sample handling
- · In-line testing
- Monitoring of parameters from other sensors, e.g. thermocouples and strain gauges
- C ustomisation of the user interface and other functionality via the integrated Microsoft VBA module













Grips and Fixtures

Choo se from a wide range of standard grips and fixtures as well as custom designed versions.

- · Wedge action grips for rigid samples
- · Pneumatic action grips for faster sample clamping
- · Vice action grips for film and semi rigid materials
- · Compression platens available in many sizes
- 3 and 4 point bending jigs
- · Self tightening grips to reduce operator fatigue
- · Bollard grips for wire and rope testing

Extensometers

Lloyd has a complete range of contact and non-contact extensometers available.

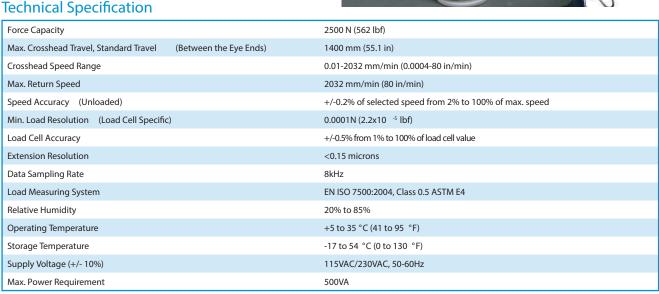
- General Purpose Contacting Extensometers
- · Non-Contacting Extensometer
- High Resolution Strain Gauge Extensometer
- High Resolution Non-Contacting Video Extensometer

The LS2.5 accepts up to 3 external inputs using an external interface. As standard the LS2.5 accepts one extensometer input using a cable loom.

Load Cells

The machine uses Plug'n'Play YLC Series load cells. The load cells feature anti-rotation collars to avoid load train twist and facilitating easy axial alignment. 8 interchangeable YLC load cells are available with different load ratings and resolution.

resolution.



All systems conform to relevant EU standards and are CE marked. On site verification as per ASTM E4 and ISO 7500-1 recommended

Flexible and Safe work area

The machine can be equipped with an expanded work table, a T-slot table or a drip tray. For safety splinter shields with electrical interlocks are available in three different heights. A temperature chamber can be added as an integral part of the solution.

Large Sample Testing

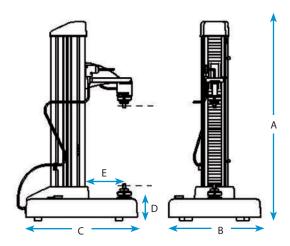
The LS2.5 is fully compatible with the unique pogo system from Lloyd Instruments, here shown with a dual column machine. The pogo system allows testing of very large samples up to 2×2 m (78.7 $\times 78.7$ in) in size with the added benefit of optional elevated and low temperature testing capability.











Α	Height 1910 mm (75.2 in)				
В	Width (excluding console) 460 mm (18.1				
C	Depth 557 mm (21.9 in)				
D	Base Height	108 mm (4.3 in)			
Е	Throat Depth	150 mm (5.9 in)			
	Weight	82 kg (180 lb)			

Ordering Information

Order number					Description
LS2.5					LS2.5
					Model
	Е				Standard
	X			POGO Design*	
					Operation
			H	1	Hand Held Remote
			C	-	Main Console
					Power
				115V	US Power Cord
				230V	UK and Euro Power Cord
				230V - CNAU	China and Australian Power Cord
					Order number sample
LS2.5 E C		230V	LS2.5, Standard, Main Console, UK and Euro Power Cord		

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

AMETEK Sensors, Test & Calibration A business unit of AMETEK Measurement & Calibra tion Technologies offering the following industry leading brands for test instrumentation.

Chatillon Force Measurement
Chatillon has been a hallmark in the industry since
1835. The hand held gauges and motorized testers
have earned their reputation for quality, reliability and
accuracy and they represent the de facto standard for
force measurement.

Lloyd Instruments
Material Testing Solutions
Materials testing machines and software from Lloyd
Instruments guarantee the highest level of performance and capability for production testing, quality
control, laboratory testing, research and education to
provide expert materials testing solutions.

Texture Analysers The comprehensive program provides the platform to perform rapid, general food testing and detailed texture analysis on a diverse range of foods.

Newage Testing Instruments Newage offers a comprehensive range of hardness testers, optical systems and software for measurement, data acquisition and analysis.

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