MODEL 150SL

Hydraulic Materials Testing Machine





he Model 150SL is designed for tension, compression, flexure and shear strength testing on materials and assemblies. The robust design incorporates quality materials and components to ensure that our reputation for superior system performance, ease of use and longevity is maintained.

Features and benefits

- Suitable for tension, compression, transverse, shear and other tests to a maximum force of 150kN/30.000lbf.
- Four-column rugged design allows larger samples to be tested.
- Friction-free piston operation allows smooth, controlled operation and minimal downtime.
- Different system control options are available, from a handheld wireless Bluetooth interface, or a tethered handheld interface running with a virtual machine interface application on a connected PC.



Familiar handheld interface that is tethered to the machine. With its larger, tactile, sealed keypad, this interface is ideal for operators who use gloves to load and unload specimens and prefer a push button keypad. It requires virtual machine control software running on a connected PC to operate the basic machine functions and report basic numerical test data.

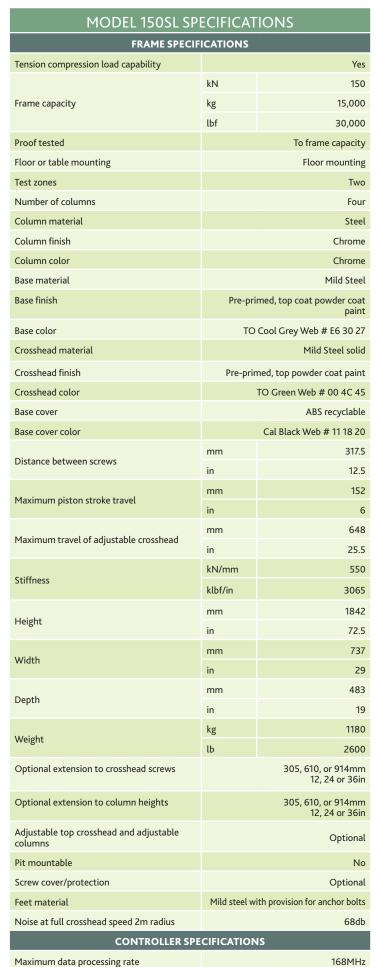
Wireless handheld interface that is connected to the machine by a Bluetooth link. The interface features an Android-based operating platform and can be used to control the machine by itself or in conjunction with Tinius Olsen's Horizon software



OPTIONS AND ACCESSORIES

- Crossheads can be closed/semi-open/or fully open for easier specimen loading and unloading.¹
- In-head pocket grips can be supplied to accommodate flat or round tensile specimens.
- External grips and fixtures can be easily mounted securely.
- Full range of precision extensometers and deflectometers are available using video, laser, encoder, strain gage and/or LVDT technologies.
- Columns can be extended by up to 914mm/36in to increase test area size.¹ Note – screw extensions require holes in the floor.
- Top crosshead can be made adjustable and columns can be notched to allow the adjustable top crosshead to be repositioned for more comfortable working heights.¹
- Safety enclosures with interlocks can be installed to protect operators from violent specimen breaks.
- Furnaces and environmental chambers can be installed for tests at high or low temperatures.
- Tinius Olsen's Horizon software can be connected to the tester by the operator.
 - 1 Supplied at the time of order





Data acquisition rate at PC



MODEL 150SL SPECIFICATIONS		
Number of instrument device	Four	
connections – external Number of instrument device	Three	
connections – internal Bluetooth enabled	v4 O with A2DD LE EDD	
External PC connection	v4.0 with A2DP, LE, EDR	
User interface connectivity	TO HMC, Proterm, Horizon	
FORCE MEASUREMENT		
Force measurement device Pressure transducer		
Resolution	One part in 8,388,608	
Accuracy	+/-0.2% of applied force across load range	
Range	0.2-100%	
Calibration standard	+/- 0.5% per ISO 7500-1 ASTM E4	
nternal sampling rate 1000Hz		
EXTENSION MEASUREMENT		
Resolution	0.1μm	
Accuracy	+/- 10μm	
Range	+/- 217m	
Calibration standard	ISO 9513, ASTM E83	
Internal sampling rate 2.73kHz POSITION CONTROL		
POSITION C	mm/min	0.001-76
Test speed	in/min	0.0001-76
Resolution	μm	0.1
	in	0.000004
Accuracy	μm	+/- 10
Crosshead positioning speed	mm/min	500
	in/min	20
Resolution	μm	0.1
	in	0.000004
Accuracy	μm	+/- 10
Home function		Yes
POWER REQUIREMENTS		
Supply voltage options		208-500V
Frequency		50/60Hz
ATMOSPHERIC REQUIREMENTS		
Operating temperature		10-40°C
Operating humidity		10-90% non-condensing 10-69°C
Storage temperature Storage humidity		10-99% non-condensing
CONSOLE DIMENSIONS		
33113322 311	mm	750
Width	in	29.5
Depth	mm	699
	in	27.5
	mm	865
Height	in	34
Oil reservoir volume	liters	66

US gal

Oil reservoir volume

1000Hz