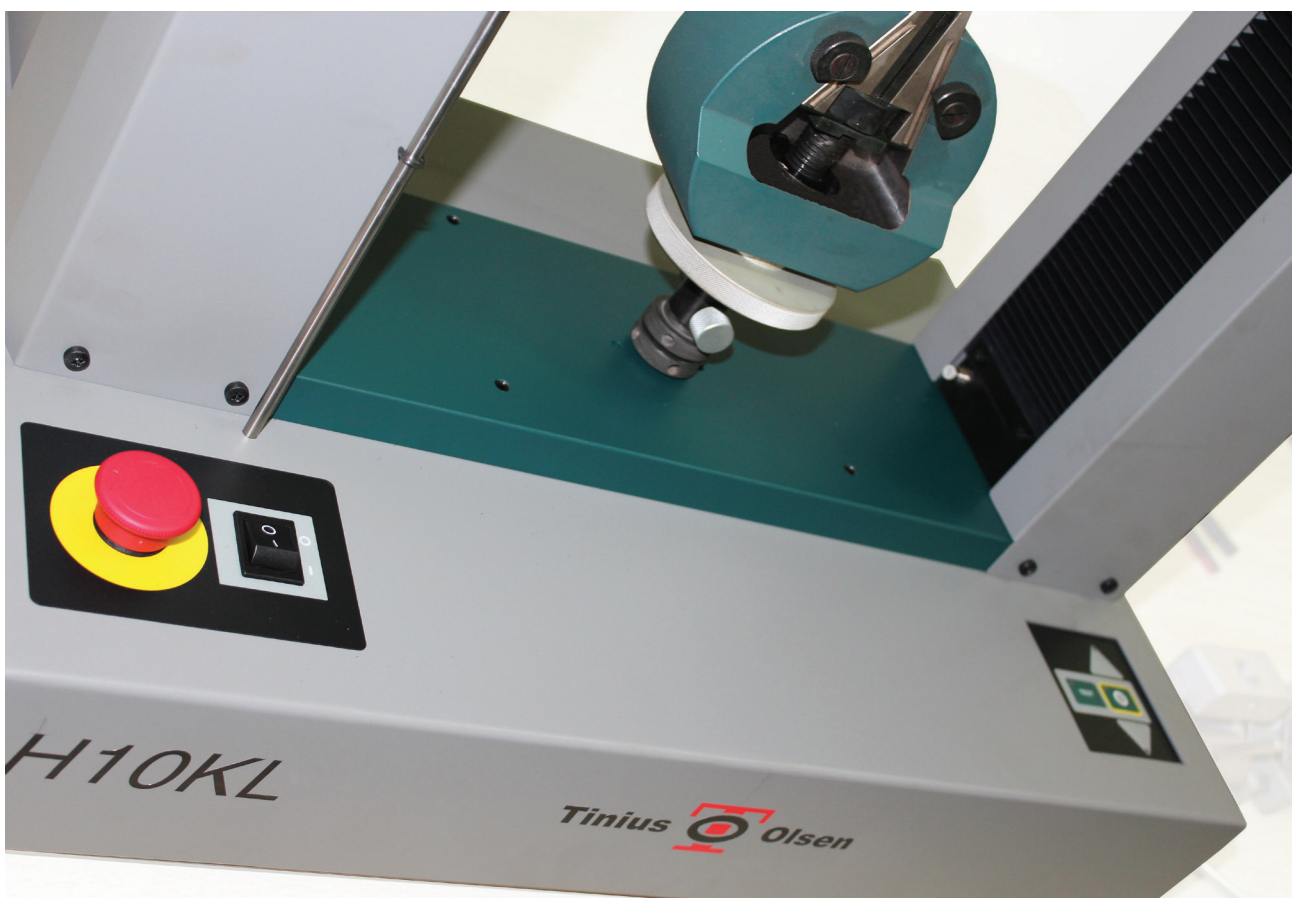




L Series

Electromechanical Material Testing Machine



The Tinus Olsen L Series of mechanical testing systems provide the simplicity, performance and affordability needed for quality control and product testing.



L Series

The L Series of electromechanical testing machines from Tinius Olsen is designed to test a wide range of materials including, but not limited to: plastics, films, paper, packaging materials, filter material, adhesives, foils, food, toys, medical devices and components, in tension, compression, flexure and peel.

Testing machines are available in frame capacities of 1kN, 5kN, 10kN, 25kN and 50kN and are combined with a variety of grips and fixtures, extensometers and software to provide standard testing systems for a variety of applications.

At the heart of each system is the testing machine. Building on the quality and technology that is built into all Tinius Olsen machines, we have developed the L Series of machines that communicate directly with a standard PC via a high speed USB.

Robust construction of the loadframes comprising oil soaked pre loaded precision leadscrews, high precision ball race bearings, high grade material for crossheads and current electronics, combined with our years of experience in machine construction results in these superior testing machines.

Flexibility and simplicity of use is also built into the design of these machines. Each machine features rapid change Z beam loadcells that allow quick and easy capacity reduction to an appropriate capacity for the test. These loadcells have a measurement accuracy of +/- 0.5% of the applied load, from 2-100% of the loadcell capacity. Each machine also features rapid grip change capability: a simple pinning technique means that the gripping fixtures can be changed for different test configurations extremely rapidly and easily.

KEY FEATURES

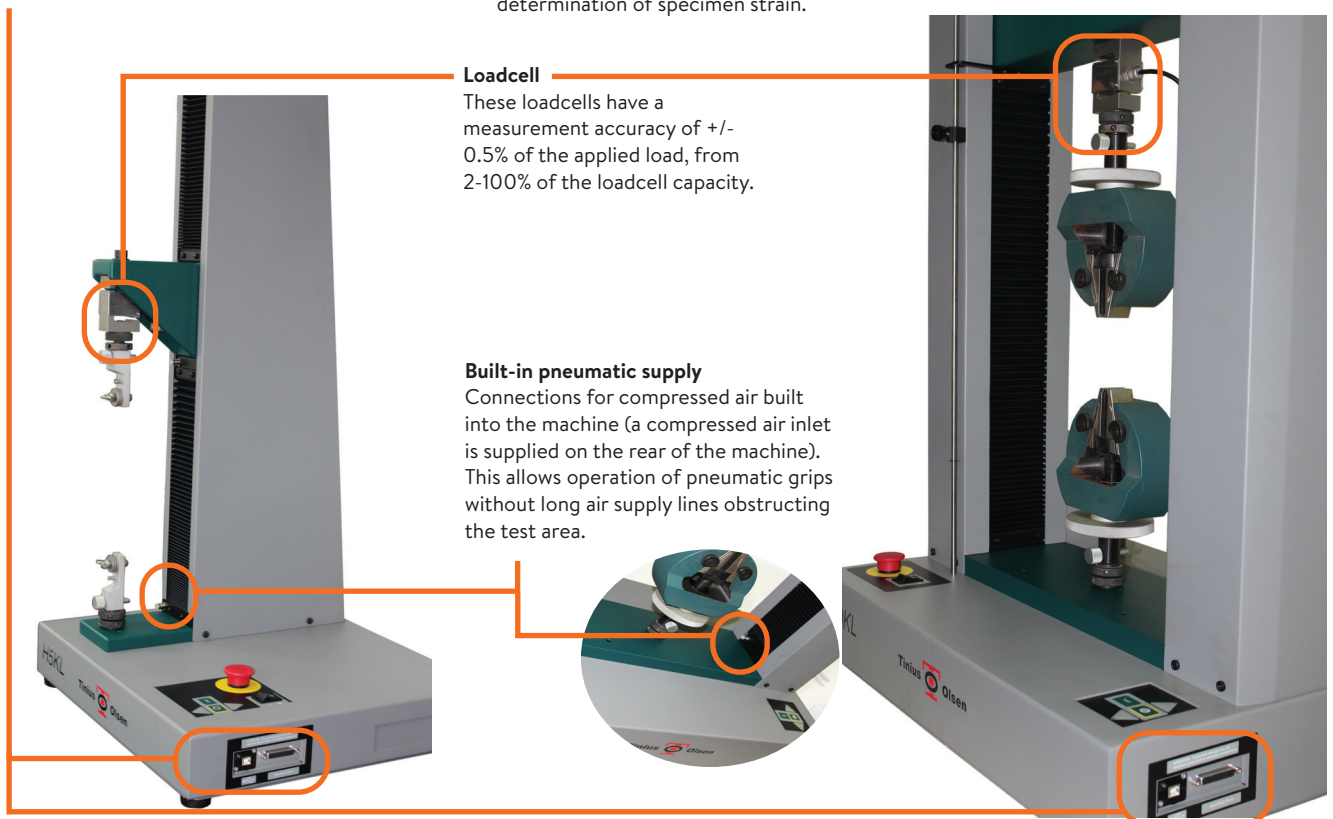
- USB connectivity
- Sunken power connector to ease service
- Protective screen supporting panels on the sides
- Air piped inside the machines to bottom and upper crossheads for supporting pneumatic fixtures
- Suitable for tension, compression, flexure, shear and other tests to a maximum force of 50kN(11,000lbf)
- Primary system interface is a PC running Tinius Olsen's Horizon data analysis software connected via USB
- System features local Jog up, jog down and stop buttons so the crosshead can be positioned for easy specimen loading
- Meets or exceeds the requirements of national and international standard for materials testing systems

Accessory connectivity

Up to a maximum of four connections can be made with the test frame via a built-in accessory connection panel on the machine.

Extensometers

Full complement of video, automatic, encoder, laser, strain gage and LVDT extensometers are available for the determination of specimen strain.





Specifications

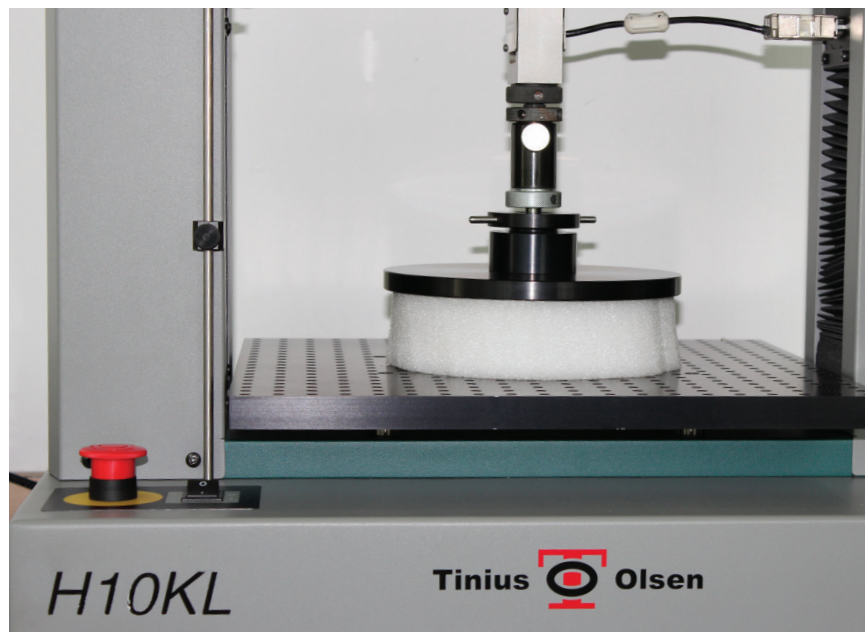
MODELS		1kL	5kL	10kL	25kL	50kL
Capacity	kN	1	5	10	25	50
	lbf	200	1000	2000	5000	11,000
Test speed range	mm/min	0.001-1000 up to 500N, 0.001-500 up to 1kN	0.001-1000 up to 2500N, 0.001-500 up to 5kN	0.001-1000	0.001-1000	0.001-500
	in/min	0.00004-40 up to 100lb, 0.00004-20 up to 200lb	0.00004-40 up to 500lb, 0.00004-20 up to 1,000lb	0.00004-40	0.00004-40	0.00004-20
Clearance between columns	mm	n/a	n/a	410	410	410
	in	n/a	n/a	16	16	16
Throat depth	mm	115	115	n/a	n/a	n/a
	in	4.5	4.5	n/a	n/a	n/a
Max crosshead travel	mm	730	730	1095	1095	1068
	in	29	29	43	43	42
Dimensions (HxWxD)	mm	1140 x 490 x 450	1140 x 490 x 450	1575 x 650 x 450	1575 x 650 x 450	1610 x 720 x 500
	in	45 x 19 x 18	45 x 19 x 18	62 x 26 x 18	62 x 26 x 18	63.4 x 28 x 20
Weight	kg	60	60	130	130	190
	lb	132	132	287	287	419

NOTES :

- Load weighing system meets or exceeds the requirements of the following standards: ASTM E4, ISO 7500-1 and EN 10002-2. Tinius Olsen recommends that systems are verified at installation in accordance with ASTM E4 and ASTM 75001
- Strain measurement system meets or exceeds the requirements of the following standards : ASTM E83, ISO 9513 and EN 10002-4
- Specifications are subject to change without notice.

OPTIONS AND ACCESSORIES

- Grips and fixtures can be easily mounted securely with a locking pin, which also allows simple and rapid changes
- Precision extensometers and deflectometers are available using encoder, strain gauge and/or LVDT technologies
- Safety enclosures with interlocks can be installed to protect operators from violent specimen breaks





Horizon - Data analysis software

Tinius Olsen has built upon its long history of providing solutions to an enormous variety of testing problems to develop Horizon, a comprehensive software program that makes testing simple, precise and efficient.

Whether the test sample is metal, paper, composite, polymer, rubber, textile or a micro-component, Tinius Olsen's Horizon software goes far beyond data collection and presentation. It will help automate operations, from R&D to the charting and analysis of QC testing.

Our Horizon software sets new standards of data analysis by adding a host of report writing and data manipulation capabilities that will make easy work of your materials testing programs. As with most features of Horizon, flexibility is key; reports can be customized by operators in any way they wish, as can all user screens, allowing operators to focus on features that are most important to them.

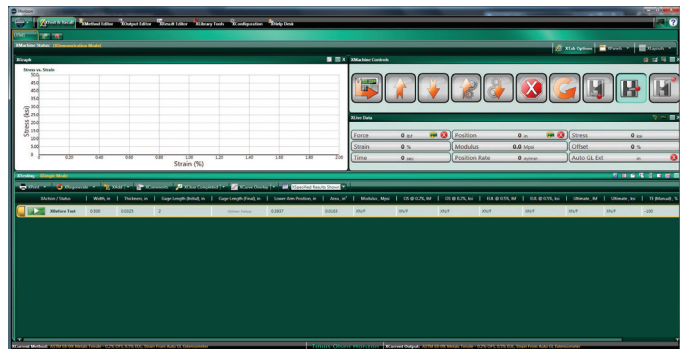
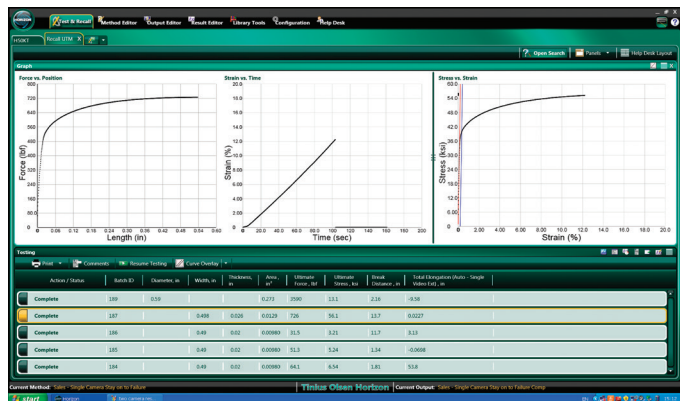
In addition to powerful reports, Horizon Materials Testing software is networkable and scalable so that operators and managers can operate equipment and review test results from multiple sources and locations. Horizon provides a library of standard, specific, and application-focused test routines that have been developed in close co-operation with customers around the world and to the standards they are using.

Among the many valuable features offered by Horizon are: a test routine library; simultaneous multiple machine control; test, output, method and result editors; and multilayered security. This software is designed for data acquisition, data analysis, and closed loop control of nearly all Tinius Olsen testing machines.

Horizon is rich with capabilities that improve productivity and enable you to build, access and use a modern, powerful materials testing database. It employs the latest Windows environments, running on touchscreen-enabled monitors, to create an intuitive user experience.

Built-in tutorials, online help, and help desk access provide additional user support.

“Horizon makes testing simple, precise and efficient”





SDL
Atlas

info@sdlatlas.com

- **SDL ATLAS LLC**

3934 Airway Drive
Rock Hill, SC 29732-9200, USA
Telephone: +1 803 329 2110
Website: www.sdlatlas.com

- **SDL ATLAS LTD.**

1B, Building B, JunXiangDa Mansion,
No. 9 ZhongShan Yuan Road, Nanshan,
Shenzhen 518052, China
Telephone: +86 (755) 2671 1168
Website: www.sdlatlas.com

- **SDL ATLAS LTD.**

3J, Garment Centre, 576 Castle Peak Road,
Kowloon, Hong Kong.
Telephone: (852) 3443 4888
Website: www.sdlatlas.com