

# SL Testers - Compression Only

Hydraulic Compression  
Testing Machines

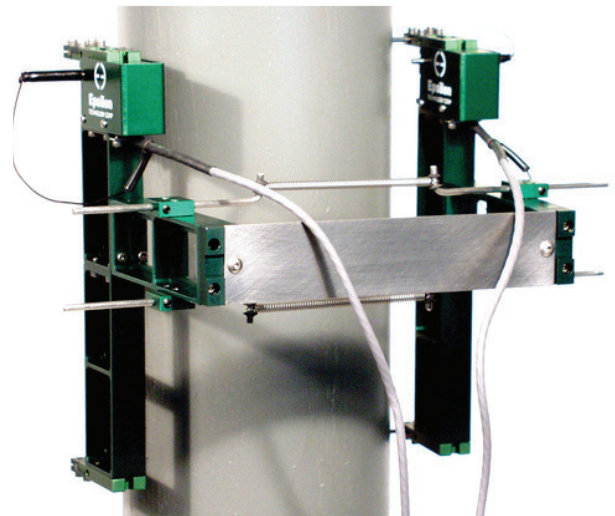
SLC000EN01

# SL Series - Compression Only

Tinius Olsen's popular line of SL hydraulic testing machines are complemented by a series of compression only test frames. These frames have the same robust design, quality materials and precision engineering as the tension and compression frames, but test in compression only. The Tinius Olsen SL series stands out because of its accuracy, dependability and power. Its efficient footprint size and nominal maintenance comes from the patented dual low pressure hydraulic loading system which delivers exacting control of movement be it under constant speed, stress or strain rate control. All SL systems meet ASTM, ISO, GOST, GB and other international standards in terms of accuracy. Accuracy is within or better than +/- 0.5% of applied force from 0.2% to 100% of frame capacity.

## USER INTERFACE OPTIONS

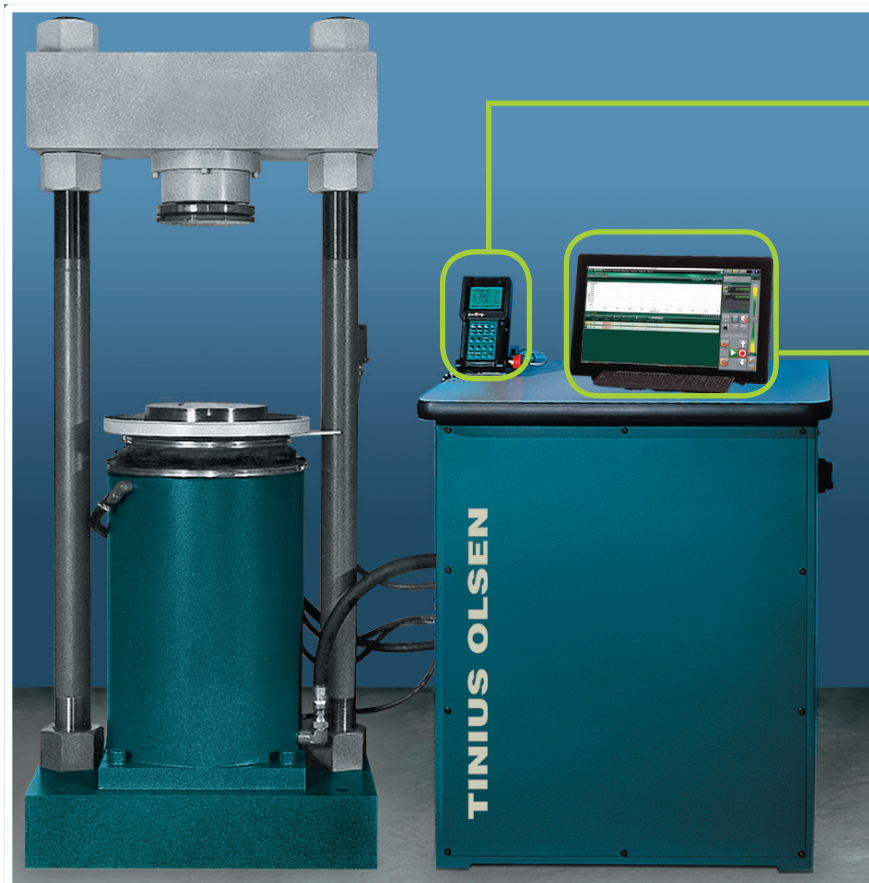
There are a number of interface options available in support of test productivity and the user preferences; Tethered handheld, wireless and/or virtual through the test, control and reporting software.



**SL Compression machine can crush rock under strain rate control**

## WHAT OUR CUSTOMERS SAY ABOUT THE SL COMPRESSION MACHINE

*"My Tinius Olsen SL compression testing machine is more than just a compression machine, it's a reference machine against which we bench mark our other less robust compression machine technologies."*



## CONNECTIVITY

The SL can be used with a wide range of compression extensometers on concrete, rock, asphalt, single or dual or tri averaging extensometers under constant speed or stress or strain rate loading.

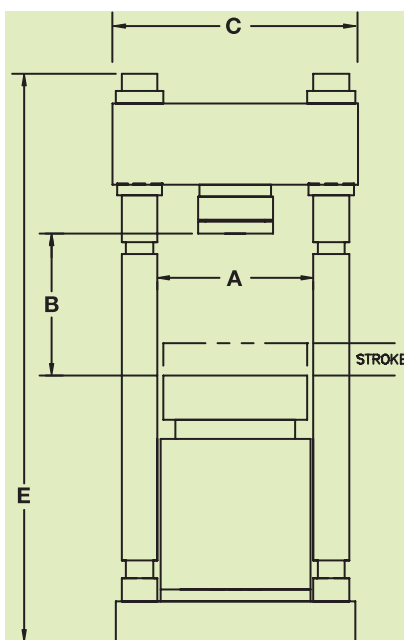
## HORIZON DATA ANALYSIS SOFTWARE

Horizon materials testing software provides an efficient environment through which to perform compression tests, view live data throughout the test, analyze results, report and pass the results to interested parties across a network as data stream or a network data base or in the form of pass/fail alerts.

As a reference system, Horizon integrates with the lab user's standard windows passwords and access, automatically implements traceable signatures in test report footers and provides a running log of any changes to test methods and settings.



MODELS		150	300	450	600	900	1000 <sup>2</sup>	1500 <sup>2</sup>	2000 <sup>2</sup>	3000 <sup>2</sup>	
Capacity	lbf	30,000	60,000	90,000	120,000	180,000	200,000	300,000	400,000	600,000	
	kN	150	300	450	600	900	1000	1500	2000	3000	
	kgf	15,000	30,000	45,000	60,000	90,000	100,000	150,000	200,000	300,000	
Machine specifications	Stroke										
	in	6	6	6	6	6	9	9	9	5.5	
	mm	152	152	152	152	152	229	229	229	139	
	Testing speeds										
	in/min	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-2	
mm/min	0-76	0-76	0-76	0-76	0-76	0-76	0-76	0-76	0-76	0-50	
Load frame dimensions	(A)	Clearance between screws									
	in	14	14	14	20	20	22	22	22	26	
	mm	356	356	356	508	508	559	559	559	660	
	(B)	Standard opening									
	in	22	22	22	24	24	24	24	24	24	
	mm	556	556	556	610	610	610	610	610	610	
	(C)	Width									
	in	29	29	29	30	30	34	34	34	40	
	mm	737	737	737	762	762	851	851	851	1016	
	(D)	Depth									
	in	19	19	19	25	25	24	24	24	26	
	mm	483	483	483	635	635	610	610	610	660	
	(E)	Height <sup>1</sup>									
	in	67	67	67	73	73	79	79	79	96	
	mm	1691	1691	1691	1860	1860	2013	2013	2013	2434	
Machine weight	Net										
	lbs	1050	1050	1050	3750	3750	6320	6320	6320	8000	
	kg	476	476	476	1700	1700	2867	2867	2867	3629	



Schematic of load frame. Refer to table for actual dimensions.

#### COMPRESSION SL CONSOLE DIMENSIONS

MODELS	150 to 900		1000 TO 3000	
WIDTH	in	36	48	
	mm	915	1219	
DEPTH	in	14	14	
	mm	356	356	
HEIGHT	in	40	40	
	mm	1016	1016	

#### Notes

1. Add D or E as applicable and add stroke
2. These machines can be floor- or pit-mounted to meet customer testing requirements; pit mounting may require additional components
3. Specifications subject to change without notice



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Hydraulic Compression

Testing Machines

[www.tiniusolsen.com](http://www.tiniusolsen.com)

- Horsham, PA, USA • Redhill, Surrey, UK
- Noida, UP, India • Shanghai, PR China

Tinius Olsen