



Compression Super "L" Series



Fig. 1. 400,000 lbf (2,000kN) capacity *compression only* Super L with optional computer control.

Tinius Olsen's popular line of Super "L" hydraulic testing machines are complemented by a series of compression only test frames. These frames have the same superior specifications as the tension and compression frames, but test in compression only.

The Tinius Olsen Super "L" has long been recognized as the standard for accuracy, dependability, and versatility in hydraulic testing machines and the

many thousands of machines in use around the world attest to this fact.

The test frames feature a patented dual-pressure hydraulic loading system and a new space-saving console.

All Super "L" systems are guaranteed to meet ASTM, ISO, and other national and international specifications for accuracy. Accuracy is within +/- 0.5% of applied force from 0.2% to 100% of frame capacity.

Easy-to-use testing software.

Tinius Olsen has a wide range of software that can be added to the Super "L" for data acquisition and for computer-assisted control of the testing machine (for machines equipped with the optional servo control).

Testing control with handheld controller.

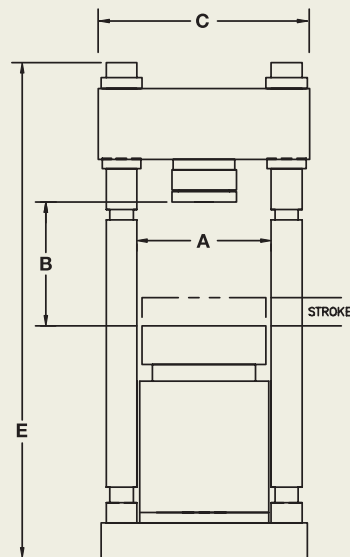
For manual control and convenient operation each compression Super "L" includes as standard a handheld controller with an LCD and an extended cord. A portion of the LCD reads force in either lbf, N, or kgf in 10 mm high numbers. In addition to displaying force, it can be optionally equipped with instrumentation and signal conditioners to display position and strain. If the position instrumentation (high resolution encoder) and signal conditioning module are ordered, speed will also be displayed.

Optional servo control.

As dependable as the basic manually controlled Super "L" is, the rate at which load is applied is determined by the operator. Therefore, as an option, the Super "L" can be supplied with closed-loop servo control capability. This closed-loop control system constantly monitors the test in progress and regulates the testing rate to maintain preset conditions. This option enables you to conduct compression tests and flexure tests automatically and ensures consistent testing control, free from operator variability. Also, this valuable feature can be easily added to the machine at a later date with hardware and software options.

MODEL		60	90	120	180	200 ₂	300 ₂	400 ₂	600 ₂
CAPACITY	lbf	60,000	90,000	120,000	180,000	200,000	300,000	400,000	600,000
	kN	300	450	600	900	1,000	1,500	2,000	3,000
	kgf	30,000	45,000	60,000	90,000	100,000	150,000	200,000	300,000
MACHINE SPECIFICATIONS	Stroke								
	in	6	6	6	6	9	9	9	6
	mm	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	0-2
	mm/min	0-76	0-76	0-76	0-76	0-76	0-76	0-76	0-50
LOAD FRAME DIMENSIONS	(A) Clearance Between Screws								
	in/min	14	14	20	20	22	22	22	26
	mm/min	356	356	508	508	559	559	559	660
	(B) Standard Opening								
	in/min	22	22	24	24	24	24	24	24
	mm/min	556	556	610	610	610	610	610	
(C) Width									
	in/min	29	29	30	30	34	34	34	40
	mm/min	737	737	762	762	851	851	851	1,016
(D) Depth									
	in/min	19	19	25	25	24	24	24	26
	mm/min	483	483	635	635	610	610	610	660
(E) Height ¹									
	in/min	67	67	73	73	79	79	79	96
	mm/min	1,691	1,691	1,860	1,860	2,013	2,013	2,013	2,434
MACHINE WEIGHT	Net								
	lbs	1,050	1,050	3,750	3,750	6,320	6,320	6,320	8,000
	kg	476	476	1,700	1,700	2,867	2,867	2,867	3,629

Fig. 2. Schematic of load frame. Refer to table for actual dimensions.



Compression Super "L" UTMs Console Dimensions

MODEL		60	90	120	180	200	300	400	600
Width	in			36				48	
	mm			915				1,219	
Depth	in			31				31	
	mm			788				788	
Height	in			40				40	
	mm			1,016				1,016	

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



World Headquarters:

1065 Easton Road
Horsham, PA 19044 USA
(215) 675-7100
Fax (215) 441-0899
www.TiniusOlsen.com
info@TiniusOlsen.com

European Headquarters:

6 Perrywood Business Park
Honeycrock Lane, Salfords
Redhill, Surrey RH1 5DZ England
++44 (0) 1737 765001
Fax ++44 (0) 1737 764768

Contact Your Local Representative: