



Deluxe Super "L" Series



Fig. 1. Typical 60,000 lbf (300 kN) Deluxe Super "L" with optional computer control system running Tininius Olsen's Test Navigator software.

Deluxe Super "L" machines have extra-large testing clearances and include an adjustable upper cross-head. They are available in 60,000 to 400,000 lbf (300 to 2,000 kN) versions. These machines have closed crossheads with crank operation of rack and pinion grips and a solid compression plate as standard. Grips are optional.

Tininius Olsen will customize any Deluxe Super "L" to your needs. Available options include: extra-length screws and columns; tooling for tension, compression, shear, flexure, and other tests; accordion-type, non-metallic screw covers; semi-open crossheads and manually or hydraulically-powered lever grips for

machines of 200,000 through 400,000 lbf (1,000 through 2,000 kN) capacity; choice of high or low base for machines of 200,000 through 400,000 lbf (1,000 through 2,000 kN) capacity; broad range of strain measuring instrumentation; low-capacity load cells; tee-slotted table (front to back) for locating and securing tooling; closed-loop servo control; software and computer systems; and furnaces for temperatures to 2200° F (1204° C).

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 the frame capacity.

Easy-to-use testing software.

Tininius 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 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 appropriate 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		60D	120D	200D	300D ₆	400D ₆	
CAPACITY	lbf	60,000	120,000	200,000	300,000	400,000	
	kN	300	600	1,000	1,500	2,000	
	kgf	30,000	60,000	100,000	150,000	200,000	
MACHINE SPECIFICATIONS	Stroke in mm	9 229	12 300	12 300	12 300	12 300	
	Testing Speeds in/min mm/min	0-3 0-76	0-3 0-76	0-35 0-85	0-3.5 0-85	0-3.5 0-85	
	Adjustable Crosshead Speed in/min mm/min	12 305	12 305	12 305	12 305	12 305	
LOAD FRAME DIMENSIONS ¹	(A) Clearance Between Screws ⁷ in mm	30 762	30 762	30 762	30 762	30 762	
	(B) Standard Opening in mm	43.25 1099	66 1676	86.5 2197	94.25 2394	94.25 2394	
	(C) Crosshead Thickness in mm	5 127	6.5 165	8 203	10.5 267	10.5 267	
	(D) Grip Guard Thickness in mm	2.25 57	3.5 89	2.75 70	3.56 91	3.56 91	
	(E) Lever Height in mm	— —	— —	8.75 222	10.75 273	10.75 273	
	(F) Width ³ in mm	44 1118	42.5 1080	44.125 1121	49.5 1257	49.5 1257	
	(G) Depth ³ in mm	20 508	25.25 641	30 762	34 864	34 864	
	(H) Height ^{2, 4} in mm	81.75 2077	112.5 2858	129 3277	137 480	137 3480	
MACHINE WEIGHT ¹	Net lbs kg	5700 2586	7500 3402	11,000 4990	16,400 7440	16,400 440	
	Gross lbs kg	6200 2812	8200 3720	12,000 5475	18,200 856	18,200 8256	
NOMINAL MAXIMUM SPECIMEN SIZES ²	Max.-TL Rack & Pinion in mm	36 914	48 1219	76 1930	80 2032	80 2032	
	Max.-TL Lever Grips in mm	— —	— —	72 1829	72 1829	72 1829	
	Tension Length ⁵	Width in mm	2 51	2.5 64	3 76	4 102	4 102
		Thickness in mm	1.75 44	1.75 44	2.625 67	2.875 73	2.875 73
		Diameter in mm	1.125 29	2.25 57	215 64	3.75 83	3.25 83
Compression Height	Max.-CH Rack & Pinion in mm	36 914	48 1219	74 1880	72 1829	72 1829	
	Max.-CH Lever Grips in mm	— —	— —	74 1880	72 1829	72 1829	

Contact Your Local Representative:

Standard Super "L" UTM's Console Dimensions

MODEL		60D 120D	200D 300D 400D
Width	in	36	48
	mm	915	1219
Depth	in	31	31
	mm	788	788
Height	in	40	40
	mm	1016	1016

Notes:

1. Approximate
2. Additional height clearances can be provided
3. Dimension of footprint base; overall dimensions will depend on options selected
4. Add D or E as applicable and add stroke
5. With full stroke remaining
6. These machines can be floor or pit-mounted to meet customer testing requirements; pit mounting may require additional components
7. Specifications subject to change without notice

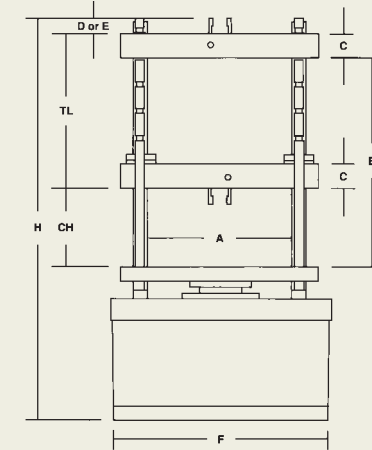


Fig. 4. Schematic of load frame. Refer to table at left for actual dimensions.



Fig. 2. Typical 400,000 lbf (2,000 kN) Deluxe Super "L" load frame with a low base and recessed cylinder.



Fig. 3. Typical 400,000 lbf (2,000 kN) Deluxe Super "L" load frame with a high base (can be arranged for floor or pit mounting).



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