



Deluxe Super "L" Series



Fig. 1. Typical 60,000 lbf (300 kN) Deluxe Super "L" with optional computer control system running Tinius 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 lbf (300kN) versions only. These machines have closed crossheads with crank operation of rack and pinion grips and a solid compression plate as standard. Grips are optional.

Tinius 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; a 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.

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 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	
CAPACITY	lbf	60,000	
	kN kgf	300 30,000	
MACHINE SPECIFICATIONS	Stroke in mm	9 229	
	Testing Speeds in/min mm/min	0-3 0-76	
	Adjustable Crosshead Speed in/min mm/min	12 305	
LOAD FRAME (A) DIMENSIONS	Clearance Between Screws in mm	30 762	
	(B) Standard Opening in mm	43.25 1099	
	(C) Crosshead Thickness in mm	5 127	
	(D) Grip Guard Thickness in mm	2.25 57	
	(E) Lever Height in mm	— —	
	(F) Widths in mm	44 1118	
	(G) Depths in mm	20 508	
	(H) Height, 4 in mm	81.75 2077	
MACHINE WEIGHT	Net lbs kg	5700 2586	
	Gross lbs kg	6200 2812	
NOMINAL MAXIMUM SPECIMEN SIZES ²	Max.-TL Rack & Pinion in mm	36 914	
	Max.-TL Lever Grips in mm	— —	
	Tension Lengths	Width in mm	2 51
		Thickness in mm	1.75 44
		Diameter in mm	1.125 29
Compression Height	Max.-CH Rack & Pinion in mm	36 914	
	Max.-CH Lever Grips in mm	— —	

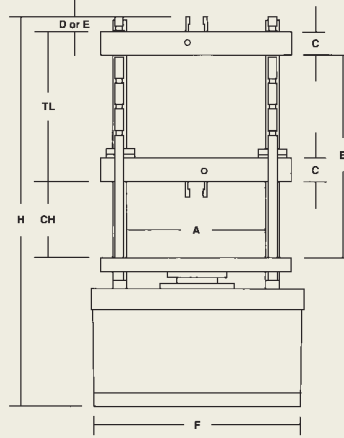
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Standard Super "L" UTMs Console Dimensions

MODEL		60D
Width	in	36
	mm	915
Depth	in	31
	mm	788
Height	in	40
	mm	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. 2. Schematic of load frame. Refer to table at left for actual dimensions.



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