



High Capacity Super "L" Series

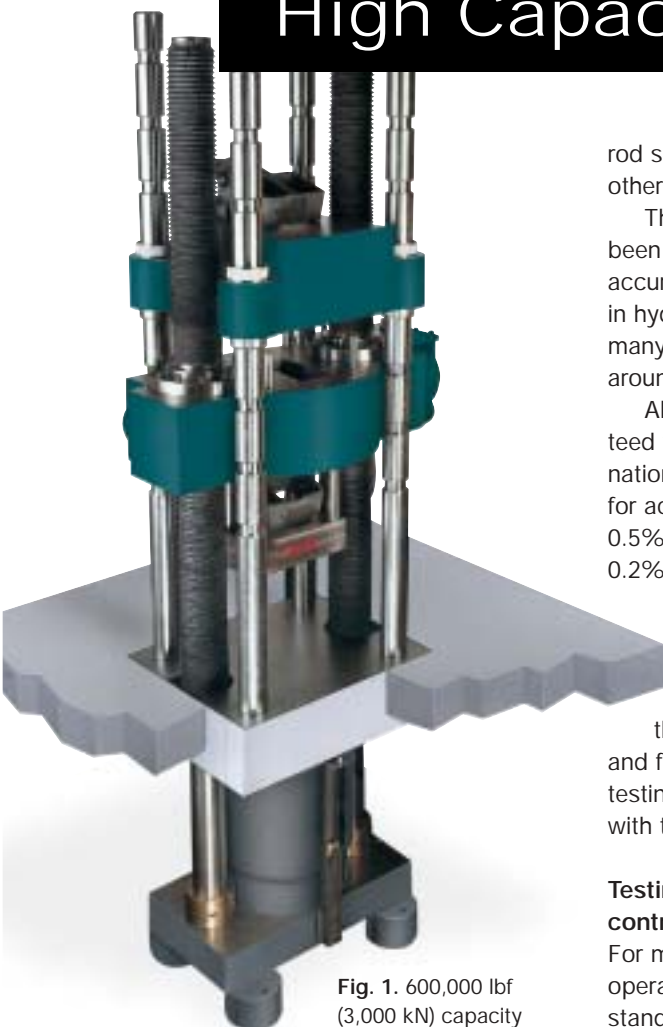


Fig. 1. 600,000 lbf
(3,000 kN) capacity
Super "L".

Tinius Olsen has extended its popular Super "L" line of hydraulic testing machines to include machines that operate up to 600,000 lbf (3,000kN). In addition to the enhanced standard frames, we have modified machines to accommodate special needs at these high capacities. As an example of this, the model 600RB is designed to test sections of up to size 18 rebar and the tensile testing area has been moved to a safe, waist-high operating height to allow easy sample insertion and removal of these heavy samples. Typical applications include testing reinforcing bars, standard plate and

rod specimens, concrete cylinders, and other critical materials and products.

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.

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

Easy-to-use testing software.

Tinius Olsen has a wide variety 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 remote handheld controller with an LCD and an extended cord. A portion of the LCD reads force in either lbf, N, or kgf in 10mm high numbers. In addition to displaying force, it can be optionally equipped with appropriate instrumentation and signal conditioners to display position and strain values. If the position instrumentation (high resolution encoder) and signal conditioning module are ordered, the speed will 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



Fig. 2. Model 600RB, 600,000 lbf
(3,000 kN) capacity Super "L".

closed-loop servo control capability. This closed-loop control system constantly monitors the test in progress and regulates the testing rate to maintain the preset conditions. This option enables you to conduct compression tests and flexure tests automatically and ensures consistent testing control free from operator variability. Also, the valuable closed-loop servo control feature can be added easily to the machine at a later date with the addition of hardware and software options.

MODEL		600-2-26	600D-2-60	600RB
CAPACITY	lbf	600,000	600,000	600,000
	kN	3,000	3,000	3,000
	kgf	300,000	300,000	300
MACHINE SPECIFICATIONS	Stroke			
	in	9	12	12
	mm	229	305	305
	Testing Speeds			
in/min	0-3	0-3	0-4	
mm/min	0-76	0-76	0-101	
Adjustable Crosshead Speed	in/min	12	12	—
	mm/min	305	305	—
LOAD FRAME DIMENSIONS ¹	(A) Clearance Between Screws			
	in	26	60	20
	mm	660	1,500	508
	(C) Width ³			
	in	43	82	88
mm	1,092	1,346	2,235	
(D) Depth ²				
in	34	40	34	
mm	863	1,000	863	
(E) Height ^{3, 4}				
in	106	200	151	
mm	2,692	5,000	3,835	
MACHINE WEIGHT ¹	Net	—	—	24,500
	lbs	—	—	11,000
	kg	—	—	—
Gross	lbs	—	—	26,250
	kg	—	—	12,000
NOMINAL MAXIMUM SPECIMEN SIZES ²	Tension ⁵	Lever Grips		
		in	72	78
	mm	1,828	2,000	1,200
	Compression	Lever Grips		
in		60	98	42
mm	1,524	2,500	1,100	

Standard Super "L" UTMs Console Dimensions

MODEL		600-2-26	600D-2-26	600RB
Width	in	48		
	mm	1219		
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

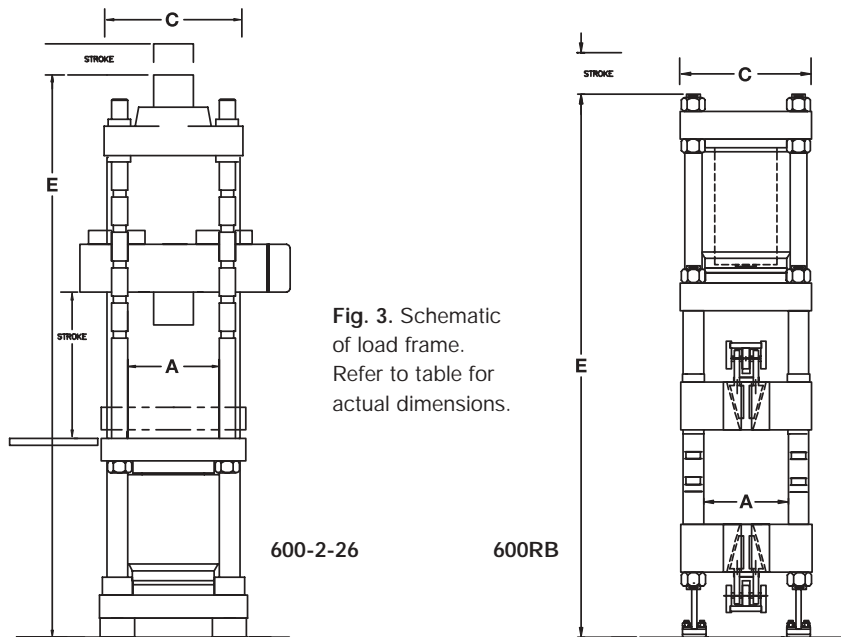


Fig. 3. Schematic of load frame. Refer to table for actual dimensions.



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