

# *w+b* Multipurpose Dynamic Testing Systems Series LFV-L Tabletop 2.5 – 25 kN

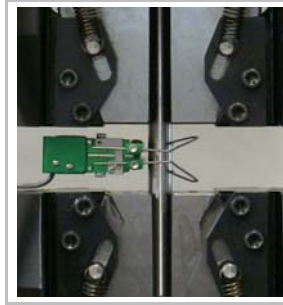
**Versatile & compact test systems configurable to meet the demands of modern testing laboratories, R & D centres, institutes and universities.**

**The Series LFV-L tabletop systems are currently available in with force capacities ranging from 2.5 kN up to 25 kN.**

The LFV-L fatigue rated systems represents the ideal solution to perform a large variety of static and dynamic materials tests. This series is well suited to perform static tension, compression, flexure and shear tests, LCF - low cycle fatigue testing, fatigue crack growth testing, fracture toughness testing, further typically applications includes testing of biomechanical products and implants and more. The load frame features rigid designed with high axial and lateral stiffness with high natural frequency. The upper crosshead is mechanically clamped and features automatic, motorized, positioning (lifting/lowering). Integrated in the upper crosshead is the fatigue rated actuator with co-axially mounted displacement transducer. The manifold with servo valve is mounted direct on the actuator for the highest possible response and most accurate test control. The close coupled accumulators minimize the hydraulic pressure fluctuations.



The fatigue rated, low-profile, low mass designed precision load cell features high natural frequency and excellent long term stability. The LFV-L is available with the alignment fixture for the adjustment of load string alignment complying with ASTM E1012 or other standards. It is capable to perform alignment adjustments while the load train is fully preloaded. As accessory the alignment verification equipment with strain-gauged specimen, electronic and software is available. The system is supplied with the state-of-the-art machine base. As space saving system the solution with integrated hydraulic power pack up to 6 l/min oil flow is available. Otherwise the machine is supplied with the low noise free standing hydraulic power pack Series PAC. To meet the full range of mechanical testing needs the LFV-L can be configured with a variety of grips and fixtures, extensometers, environmental chambers, different software packages and other accessories. The LFV-L is also available with axial/torsional drive, upgrading your system from axial only to axial/torsional performance. Standard ratings are 20, 50, 100 and 200 Nm. The torsional angle can be chosen to meet your specific testing needs.



## Technical Data Series LFV-L 2.5 - 25 kN

### General Specifications:

Accuracy:	Grade 0.5 according to ISO 7500-1 and other international standards.	
Control:	Force and displacement closed loop. If ordering with extensometer also strain closed loop controlled.	
Actuator:	Mounted on upper crosshead.	
Crosshead Adjustment:	ME:	Mechanically Locked with Electrical Height Adjustment (Standard)
	M:	Mechanically Locked and Adjustable (Option)
Hydraulic Power Pack (PAC):	Standard:	Integrated in the base of the machine.
	Option:	Free standing power pack for higher oil flows.
Piston Stroke:	Standard: $\pm 50$ mm. All others as $\pm 25$ , $\pm 75$ , $\pm 100$ or $\pm 125$ available.	
Power Requirements:	Standard: 400 V / 50 Hz. Others upon request.	

Type	LFV	2.5	5	10	15	25
Test Load Static max.:	kN	$\pm 3$	$\pm 6$	$\pm 12$	$\pm 20$	$\pm 30$
Test Load Dynamic max.:	kN	$\pm 2.5$	$\pm 5$	$\pm 10$	$\pm 15$	$\pm 25$
Piston Stroke:	mm	$\pm 50$	$\pm 50$	$\pm 50$	$\pm 50$	$\pm 50$
Distance between Adapters:	mm	767	767	767	767	767
Distance between Columns:	mm	440	440	440	440	440
Column Diameter:	mm	80	80	80	80	80
Width:	mm	730	730	730	730	730
Depth:	mm	500	500	500	500	500
Height:	mm	1878	1878	1878	1878	1878
Weight Frame:	kg	150	150	150	150	150
Frame Stiffness:	kN/mm	110	110	110	110	110
Working Height with Base:	mm	960				
Total Dimensions with Base:	mm	1400 x 790 x 2835				
Weight Base without PAC:	kg	140	140	140	140	140
Weight Base with PAC:	kg	350	350	350	350	350

