

Technical Data LFV - ME up to 10 kN:

Type	LFV-ME	1	2	5	10
Static Test Load	kN	± 1	± 2.5	± 6 kN	± 12 kN
Fatigue Test Load	kN	± 1	± 2	± 5	± 10
Standard Piston Stroke*	mm	± 50 or ± 75, ± 125	± 50 or ± 75, ± 125	± 50 or ± 75, ± 125	± 50 or ± 75, ± 125
Frame Stiffness	kN/mm	50			
Horizontal daylight	mm	440 (between column)			
Depth of T-slot platen	mm	600			
Vertical daylight**	mm	0 to 800 (between spigots)			
Overall Depth	mm	900			
Overall Width	mm	600 (plus ergonomically working table)			
Max. Height	mm	2400 (at max spigot separation)			
Working Height	mm	800 (lower T-slot platen)			
Oil flow of power pack**	l/min	5.5			
Oil cooling		Integrated air/oil or water/oil cooler			
Power requirements		400 V-50 Hz (on request 220 or 110 V-60 Hz) 4 kW			
Control		Force and displacement closed loop. If ordering with extensometer also strain closed loop controlled.			
Accuracy		Grade 0.5 according to ISO 7500-1, EN 1002-2 and other international standards			

*All others available

** alternative: 3 l/min, 4 l/min, 7 l/min or free standing power pack with higher oil flow



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Technical Data LFV-M, LFV-HM and LFV-HH up to 50 kN:

Type	LFV	10	20	32	50
Static Test Load:	kN	±12	±25	±40	±63
Fatigue Test Load:	kN	±10	±20	±32	±50
Standard Piston Stroke*:	mm	±50 or ±75, ±125	±50 or ±75, ±125	±50 or ±75, ±125	±50 or ±75, ±125
Frame Stiffness:	kN/mm	150			
Horizontal daylight:	mm	420 (between column)			
Depth of T-slot platen:	mm	600			
Vertical daylight*:	mm	0 to 700 (between spigots)			
Overall Depth:	mm	900			
Overall Width:	mm	750 (plus ergonomically working table)			
Max. Height:	mm	2425 (at max spigot separation)			
Working Height:	mm	880 (lower T-slot platen)			
Oil flow of power pack**:	l/min	7			
Oil cooling:		Integrated air/oil or water/oil cooler			
Power requirements:		400 V-50 Hz (on request 220 or 110 V-60 Hz) 5 kW			
Control:		Force and displacement closed loop. If ordering with extensometer also strain closed loop controlled.			
Accuracy:		Grade 0.5 according to ISO 7500-1, EN 1002-2 and other international standards			

*All others available

** alternative: 3 l/min, 4 l/min, 5.5 l/min or free standing power pack with higher oil flow



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Application Example: Servohydraulic Universal Testing Machine Type LFV 50 kN

for fatigue material testing on aluminium standard samples used in the aircraft industries

Precision aligned and rigid load frame for outstanding axial and lateral stiffness with in the machine base integrated actuator with hydrostatic bearings. The machine is equipped with alignment fixture ensure load frame accuracy and that the machine comply with industry (including Boeing and GE) regulations and standards for material testing accuracy. The alignment fixture enables to perform alignment adjustments during verification practice. For constant and repeatable testing results the hydraulic collet grips series HCG (for round, rectangular or hexagonal specimens) clamp the specimens in exactly the same way. Their superior alignment and constant gripping force minimize the bending strains and slippage that can invalidate test results and cost you time. This grips having a stiff and short design minimizes the lateral movements that can cause buckling the specimens. The HCG collet grips allows a easy loading of the samples by siding the specimen into the smooth collet.



Application Example: Servohydraulic Universal Testing Machine Type LFV 50 kN

for testing and research on asphalt

The application of the LFV-50 kN with environmental chamber includes conducting uniaxial testing and research on asphalt mixes to determine resilient modulus, Poisson's ratio, indirect tensile creep and strength, dynamic modulus, tensile strength, phase angle, and flexure fatigue. Further triaxial asphalt, soil resilient modulus, dynamic foundations design, liquefaction, and conventional UU, CU, and CD soil tests are performed.



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Technical Data LFV-M, LFV-HM and LFV-HH 100 kN:

Type	LFV	100
Static Test Load:	kN	± 120
Fatigue Test Load:	kN	± 100
Standard Piston Stroke*:	mm	± 50 or ± 75, ± 125
Frame Stiffness:	kN/mm	350
Horizontal daylight:	mm	600 (between column)
Depth of T-slot platen:	mm	600
Vertical daylight*:	mm	0 to 1000 (between spigots)
Overall Depth:	mm	600
Overall Width:	mm	966
Max. Height (with actuator on upper crosshead)	mm	2900 (at max spigot separation)
Max. Height (with actuator in the base of the machine)	mm	3450 (at max spigot separation)
Oil flow of power pack*:	l/min	16 up to 500 available
Control:	Force and displacement closed loop. If ordering with extensometer also strain closed loop controlled.	
Accuracy:	Grade 0.5 according to ISO 7500-1, EN 1002-2 and other international standards	



** All others available.

Customized Solutions upon request:



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