

Force Gauge / Adhesion Tester

HF-AE Series

Dynamom. for Compress. F. 3000 kN

- very resilient display with batteries
- minimum and maximum value display
- USB 2.0 interface
- for forces of 500kN ... 3MN
- incl. ASTAS software for PC



TECHNICAL SPECIFICATIONS

Model	Measurement range [kN]	Ø of the cell [mm]	Height of the cell [mm]
HF-AE-500	0 ... 500	115	187
HF-AE-1000	0 ... 1000	130	158
HF-AE-2000	0 ... 2000	130	158
HF-AE-3000	0 ... 3000	150	200
Accuracy class	±0.5 %		
Overload protection	150 %		
Interface / display	USB / LCD		
Power supply	3 x 3 V primary AA batt.		
Dim. / weight	165 x 83 x 47 mm / 400 g		

INCLUDES

Dynamometer (one of the 4 models incl. external cell, software, USB cable, box, factory calib. cert., manual

ITEM NO.	ITEM
K-HF-AE-500	dynamometer, 500 kN
K-HF-AE-1000	dynamometer, 1000 kN
K-HF-AE-2000	dynamometer, 2000 kN
K-HF-AE-3000	dynamometer, 3000 kN

MLE-F Series

Load Cells f. Compress. F. ≤4 x 20 t

- measure compressive force / very resilient display
- nominal loads 20 t / 40 t / 80 t (with 4 cells each)
- accuracy 0.2 %
- display and remote control included
- with USB 2.0 interface
- portable as powered by batteries



TECHNICAL SPECIFICATIONS

Model	MLE-F 5	MLE-F 10	MLE-F 20
Meas. range	4 x 5 t	4 x 10 t	4 x 20 t
Surface pressure	10 N/mm ²	20 N/mm ²	40 N/mm ²
Max. displ. rdg.	5000 kg	10.00 t	20.00 t
Displayed values	current value, MAX (net, gross), cent. of gravity / overload / battery level		
Overl. / breaking l.	1.150 % / 500 %		
Remote display	ON / OFF / tare / gross / net / centre of gravity / MAX value display		
Interface / display	USB / LCD		
Power supply	4 x 1.5 V AA batteries		
Dimens. / weight	78 x 159 x 47mm / 240 g		

INCLUDES

Portable load cells (4 units), remote control, batteries, instruction manual

ITEM NO.	ITEM
K-MLE-F 5	portable load cells (4 x 5 t)
K-MLE-F 10	portable load cells (4 x 10 t)
K-MLE-F 20	portable load cells (4 x 20 t)

OPTIONAL ACCESSORIES

K-CAL-EF-DZ	ISO certificate (compressive force only)
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PT-AT-A

Adhesion Tester for Layers

- measures the adhesions of metal, wood and plastic
- ASTM D4541, ISO 4624 norms
- water and dust proof, shock resistant
- measures in any position / ideal for exterior use
- self-aligning measuring head
- electronically controlled hydraulic pump



TECHNICAL SPECIFICATIONS

Meas. range	0 ... 20 MPa (0 ... 3000 psi)
Resolution	0.01 MPa (1 psi)
Accuracy	±1 % (complete meas. range)
Meas. surface	heads Ø 20 or 50 mm
Materials	for use on all types of surfaces obligatory: level ground
Memory	internal, for 200 measurements
Softw. + cable	optional accessories (RS-232)
Display	LCD
Power supply	2 x AAA batteries
Operating cond.	0 ... +50 °C / 0 ... 80 % RH
Dimens. / weight	40 x 20 x 15 cm / 5.5 kg

INCLUDES

Adhesion tester, 20 measuring heads (Ø 20 mm), abrasive paper, cutter, case, instruction manual

ITEM NO.	ITEM
K-PT-AT-A	adhesion tester

OPTIONAL ACCESSORIES

K-PT-AT-AK	component adhesive
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