

Product information

Hydraulic Vertical Two Column Testing Machines for Compression Testing **LabTest 6.xxxH.4**



Machine use

Hydraulic two-column machines of the 6.xxxH.4 series for compression testing are designed for mechanical testing and flexural strength of steel plates, concrete blocks, small bars and other components. The standard equipment includes a central-placed, quiet and economical hydraulic drive. Thanks to the wide variability and accessories, the H.4 machine series allows any material pressure testing to max. power capacity of 800 kN.

Description of the machine and main advantages

- Open two-column frame with high stiffness, ergonomic design and safety shield.
- The machine and working area ergonomic with sufficient width allows easy manipulation with specimens and accessories.
- Robustness of the frame ensures high rigidity – The crosshead deformation at full load is 0.12 mm. Long service time of the machine and resistance against vibration, transferred into the floor.
- Quiet hydraulic drive with low noise <65 dB and power consumption, automatic check of hydraulic fluid level and temperature and air cooling allows continuous testing operation.
- Automatic check of the controlled loading in kN/sec or MPa/sec by proportional servo valve MOOG.
- The modular configuration of the machine with the option to add any accessories from LABORTECH company includes accessories for 3-point bending, special pressure plates, measuring probes, deformation sensors (extensometers), temperature chambers etc.

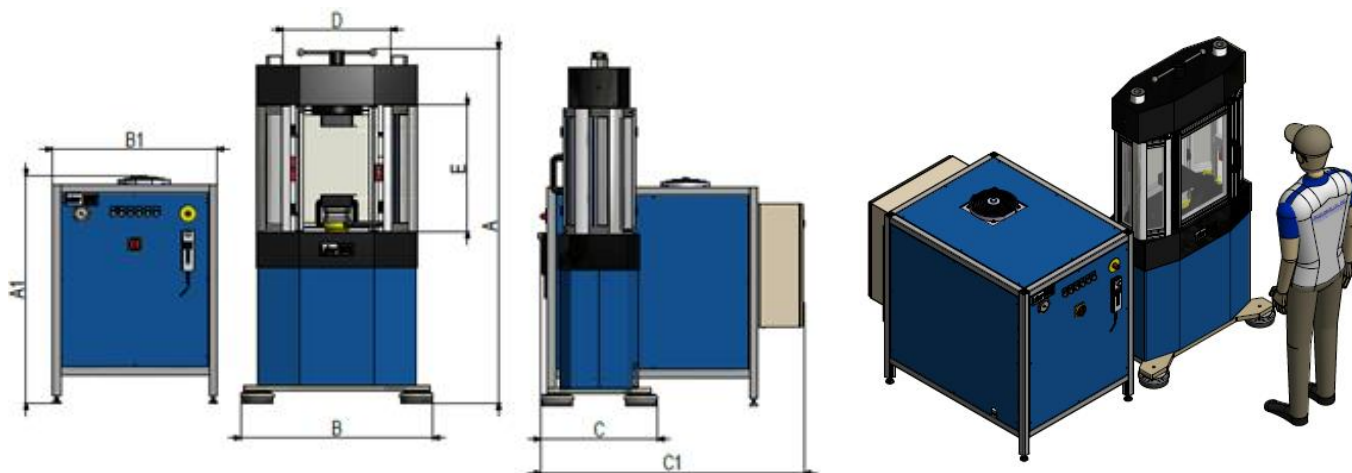
- Measuring and evaluation panel with LCD makes it easy to control and configure compression testing. The panel includes USB or LAN slot for communication with PC and a slot for connecting a printer (protocol printing).
- Due to high data acquisition **1kHz** and high resolution of AD converters **24 bit**, the measuring electronics allows very precise testing in a large range of a load cell from 0,4% to 100% in max. range of the machine according to EN ISO 7500-1.
- Machine extension possibility with a two-acting cylinder with the crosshead position measuring. Distance sensor in positional control loop etc.
- Support according standards EN, ISO, DIN, ASTM, GOST (EN 12390-4 / BS 1881:115 / DIN 51220, 51223, 51302), etc.

The base machine includes:

- The machine frame includes an oil load sensor
- Protective safety shield
- Economical, silent hydraulic unit with cooling
- Measuring and control electronics EDC 222 with LCD display and STOP button
- Hydraulic connection between the HU and the frame
- Software integrated in EDC 222

Supplements and Accessories

- Wide range of pressing tools
- Extensometers and track sensors for measuring the elasticity modulus
- Safety covers with electronic check
- Possibility of a weighing machine for measuring the weight of concrete
- Testing software T&M – BASIC
- A printer for protocols printing directly from the machine



Technical data	Units	6.200H.4	6.400H.4	6.600H.4	6.800H.4
Load capacity	kN	200	400	600	800
Number of columns		2			
Piston stroke	mm	100 – standard (possibility of increasing the stroke up to 300 mm)			
Type of Cylinder ¹		Single action cylinder standard (possibility of a double action-cylinder)			
Maximum testing speed	mm/min	350	170	260	200
Travel resolution ²		Accessories for Remainder - resolution up to 0,001 mm			
Accuracy of speed control	%	0,5			
Weight without accessories	kg	1120	1210	1045	1360
Weight with pressing tool	kg	1160	1260	1100	1420
Color finish		RAL 1015, RAL 5015 (according to customer requirements)			
Dimensions					
Height of the Machine (A)	mm	1830	1890	1715	1940
Width of the Machine (B)	mm	933	933	933	933
Depth of the Machine (C)	mm	568	568	568	568
Width of test space (D)	mm	560	560	520	520
Height of test space (E)	mm	865	865	612	865
Column diameter (H)	mm	60	60	80	80
Height of Hydraulic unit (A1)	mm	1102		1102	
Width of Hydraulic unit (B1)	mm	380		800	
Depth of Hydraulic unit (C1)	mm	1046		1246	
Environmental conditions					
Operating temperature	°C	10 to 35			
Storage temperature	°C	-35 to 55			
Humidity range	%	< 90			
Noise level ³	dB	< 65			
Electrical connection					
Supply voltage	V	3Ph/N/PE/400/50-60Hz			
Fuse	A	16	16	16	16
Power requirement (without accessories)	kVA	2,5	2,5	4	4

¹The standard version consists of a single-acting cylinder with 0,3 accuracy class oil sensor

Technical changes are reserved by manufacturer

²The length sensor is not in the standart version is only for an additional fee. You can use LVDT sensor type, IRC or SSI.

³If the HU is covered with original manufacturer cover. Measured at 1 m distance from HU without loading

Manufacturer:

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Ver. 1.0 - 2018

