

Product Information

Servo-Hydraulic Vertical Static Four Column Testing Machines LabTest 6.xxxH.2 up to 5000kN

Machine use

Servo-hydraulic testing machines of the H.2 series are designed for safe and effective testing of materials and whole products in tensile, compression, bending, shear and special testing of high-strength materials. This machine series is characterized by high durability and mechanical resistance. The basic equipment of machine includes central-placed, quiet and economical hydraulic drive. Thanks to a wide range of accessories for H.2 series it is possible to test any materials or products at maximum capacity of 5000 kN.

Machine description and the main advantages

- Open, four columns frame with high durability and ideal ergonomic configuration.
- Machine and working area ergonomic with sufficient width allows easy manipulation with specimens and accessories.
- Robustness of the frame ensures high rigidity, durability and resistance against vibration and mechanical damage.
- Quiet hydraulic drive with low noise <68 dB and low power consumption, automatic controlling of hydraulic unit parameters and air cooling.
- Automatic check of the controlled loading of power and position loop with proportional servo valve support.
- A modular configuration of the machine with the ability to add any accessories from LABORTECH company, including extensometers, temperature chambers, probes, tools, protection covers etc.
- Due to high data acquisition rate **1kHz** and high resolution of AD converters **24 bit**, the measuring electronics allows very accurate testing in the large measuring range of the force sensor.
- Ability to control the machine with a remote control RMC7 with one button without PC.
- Support according standards: EN, DIN, ISO, ASTM, GOST, etc.

The base machine includes:

- The machine frame including length sensor and load cell
- Economical and silent Hydraulic unit with measuring and control electronic EDC 222
- Hydraulic connection between Hydraulic unit and frame
- Remote control RMC7 with LCD and emergency STOP button
- Remote control with integrated software

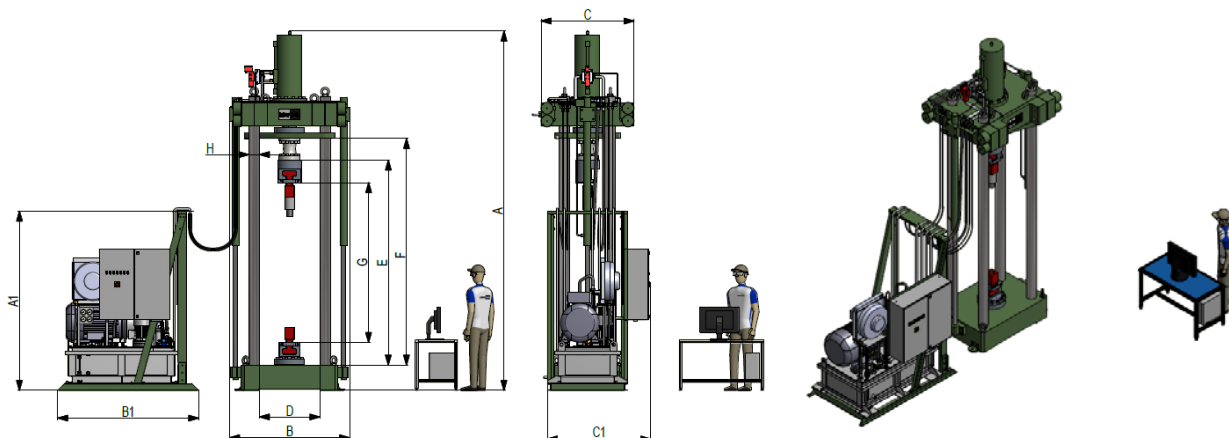
Supplements and Accessories

- Wide range of grips, compression and bending tools
- T-slotted plates
- Extensometers (mechanical, contactless)
- Safety covers
- Temperature chambers and furnaces



Software Test & Motion®

- Simple, intuitive and efficient
- Definable all kinds of protocols printing
- Individual files programming
- A set of programs for your own individual testing
- Available almost all standard methods of evaluation
- Special specific applications, programmable modules
- Digital display of all channels
- Extensive statistics results
- Saving of results data in ASCII format, SQL and Excel file
- Transferring data from other devices like touch thickness gauge, weight, etc.
- Compatibility with each EDC box system by LABORTECH company
- Possibility to add more additional channels
- Quick and efficient testing
- 9 languages (En, Cz, Ge, Fr, Pol, It, Sp, Ru, Du)
- Protocol printing in various languages
- Installation on any computer without a licence



Technical data	Units	6.2000H.2.41	6.4000H.2.41	6.5000H.2.51
Load capacity	kN	2000	4000	5000
Number of columns		4		
Piston stroke	mm	620	620	720
Minimum testing speed	mm/min	0,001		
Maximum testing speed	mm/min	200	220	180
Travel resolution	µm	1		
Accuracy of speed control	%	±0,05		
Weight without accessories	kg	8600	20680	21500
Weight with grips ¹	kg	12450	22550	23200
Color finish		RAL 1015, RAL 5015		
Dimensions				
Height of the machine (A)	mm	4140 ³	5180 ³	5590 ³
Width of the machine (B)	mm	1445	1500	1500
Depth of the machine (C)	mm	1100	1100	1100
Width of test space (D)	mm	850	932	912
Height of test space (E)	mm	2140	1300	1240
Height of test space with sensor (F)	mm	1890	900	660
Height of test space between grips (G)	mm	620 ³	620	720
Column diameter (H)		158	178	198
Height of hydraulic unit (A1)	mm	1550		1880
Width of hydraulic unit (B1)		1100		1100
Depth of hydraulic unit (C1)		1400		1400
Environmental conditions				
Operating temperature	°C	10 to 35		
Storage temperature	°C	-35 to 55		
Humidity range	%	< 90		
Noise level ⁴	dB	< 65		
Electrical connection				
Supply voltage	V	3Ph/N/PE/400/50-60Hz		
Fuse	A	25	40	40
Power requirement (without accessories)	kVA	15	22	22

¹Hydraulic grips with side pressure

Technical changes are reserved by manufacturer

²Adjustable height of testing space max. + 300 mm – model type of series from 6.600H.2.xx.1 to 6.1200H.2.xx.1

³Adjustable height of testing space max. + 760 mm – model type of series 6.1500H.2.xx.1 and higher

⁴If is hydraulic unit covered in original cover from manufacturer. Measured at 1 m distance from hydraulic unit without load

Manufacturer:

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