

## 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 a 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

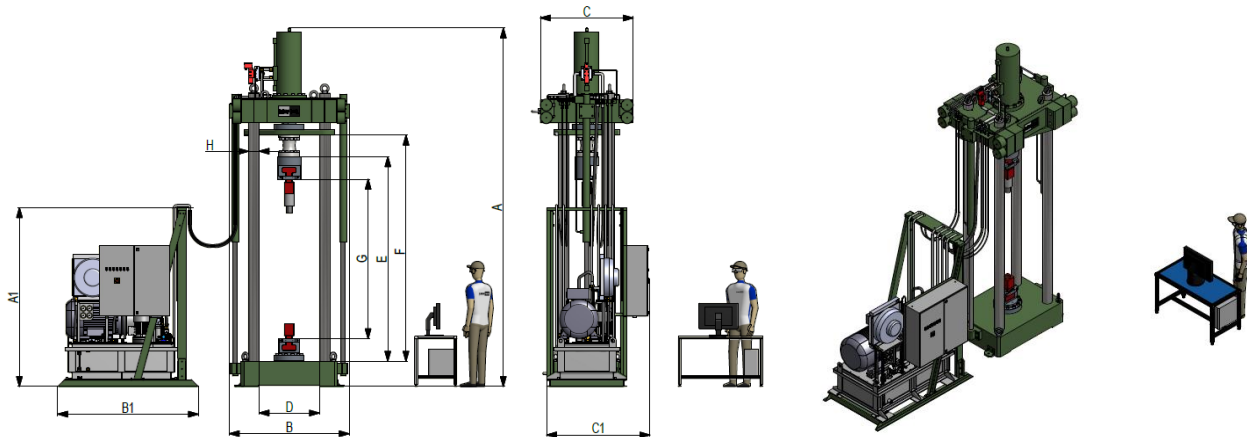
### Supplements and Accessories

- 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.2.41.0	6.2000H.2.41.1	6.4000H.2.51	6.5000H.2.51
Maximal load	kN	2000	2000	4000	5000
Number of columns		4			
Piston stroke	mm	620	620	720	720
Minimal test speed	mm/min	0,001			
Maximal test speed	mm/min	200	200	220	180
Crossbar travel resolution	µm	1			
Accuracy of speed control	%	±0,05			
Weight without accessories	kg	9400	11000	20680	21500
Weight with grips <sup>1</sup>	kg	11990	12450	22550	23200
Color finish		RAL 1015, RAL 5015			
<b>Dimensions</b>					
Height of the machine (A)	mm	4125 <sup>2</sup>	5093 <sup>2</sup>	5180 <sup>2</sup>	5590 <sup>2</sup>
Width of the machine (B)	mm	1370	1704	1500	1500
Depth of the machine (C)	mm	1000	1320	1100	1100
Width of test space (D)	mm	857	857	932	912
Height of test space (E)	mm	1926	2904	1300	1240
Height of test space with load cell (F)	mm	2252	3210	900	660
Height of test space between grips (G)	mm	Depends on used grips type - 1.L13.01.xxxx or 1.L13.20.xxxxx			
Column diameter (H)	mm	150	150	178	198
Height of hydraulic unit (A1)	mm	1475	1550	1880	
Width of hydraulic unit (B1)	mm	800	1100	1100	
Depth of hydraulic unit (C1)	mm	1763	1400	1400	
<b>Environmental conditions</b>					
Operating temperature	°C	od 10 do 35			
Storage temperature	°C	od -35 do 55			
Humidity range	%	< 90			
Noise level <sup>3</sup>	dB	< 68			
<b>Electrical connection</b>					
Supply voltage	V	3Ph/N/PE/400/50-60Hz			
Fuse	A	25	25	40	40
Power requirement (without accessories)	kVA	15	15	22	22

<sup>1</sup>Hydraulic grips with side pressure

<sup>2</sup>Adjustable height of testing space max. + 760 mm – model type of series 6.2000H.2.xx.1 and higher

<sup>3</sup>If the hydraulic unit is covered by the original cover from manufacturer. Measured at 1 m distance from hydraulic unit

Technical changes are reserved by the manufacturer

## Manufacturer:

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