

Product Information

Servo-Hydraulic Horizontal Dynamic Testing Machines **LabTest 6.xxxxH.6**

Machine use

Servo-hydraulic horizontal dynamic four-column testing machines of the series H.6 with hydraulically or manually adjustable test space are designed for safe and efficient testing of materials and products in full strength dynamic mode. This series of machines is characterized by high stiffness of the frame and mechanical resistance. A wide range of hydraulic units allows **dynamic** loading of specimens in forces up to 1,2MN and frequency 50 Hz, and **static** loading up to 4MN.

Machine description and main advantages

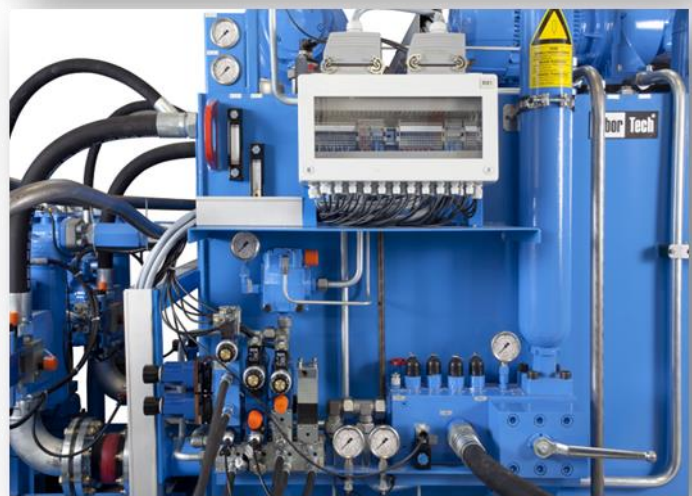
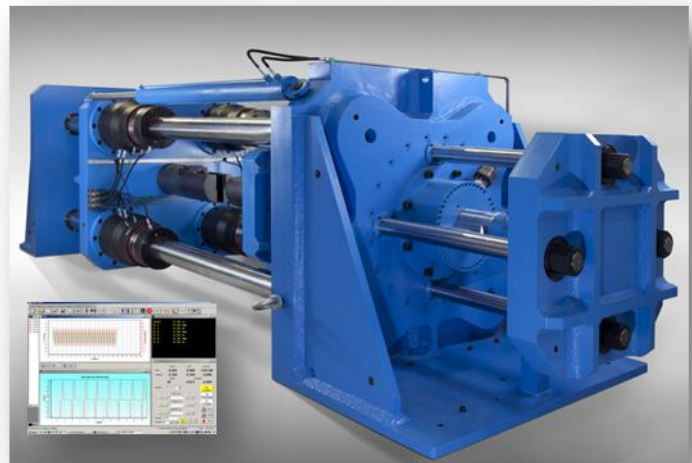
- Horizontal four-column frame with high stiffness and ideal ergonomics.
- Ergonomics of the working area and sufficient width allow easy manipulation with specimens and accessories.
- Robustness of the frame ensures high rigidity, durability and resistance to vibration and mechanical damage.
- Wide range of hydraulic units according to customer needs, automatic check of hydraulic unit parameters etc.
- Automatic check of controlled loading in force and position loop by a proportional servo valve.
- 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 **5 kHz** and high resolution of AD converters **24 bit**, the measuring electronics allows very accurate testing in dynamic mode.
- High operator comfort and customization tools for specific customer requirements as special protective covers, different speed, different types of special grips, etc.
- Ability to control the machine by remote control RMC 7.
- Support according standards: DIN, EN, ISO, ASTM, GOST, etc.

The base machine includes:

- The frame including the load cell and length sensor
- Hydraulic unit with measuring electronics EDC 580
- Hydraulic connection between HU and the frame
- Remote control RMC7 with LCD and STOP button
- Remote control with integrated software

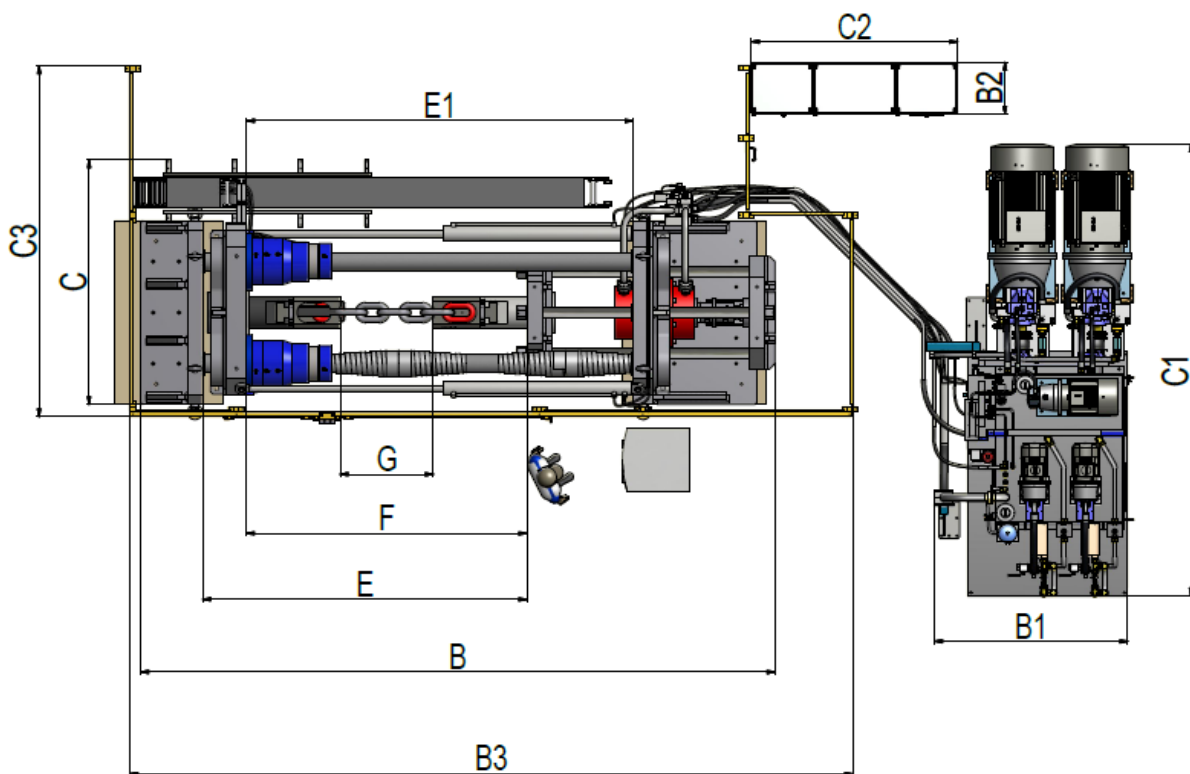
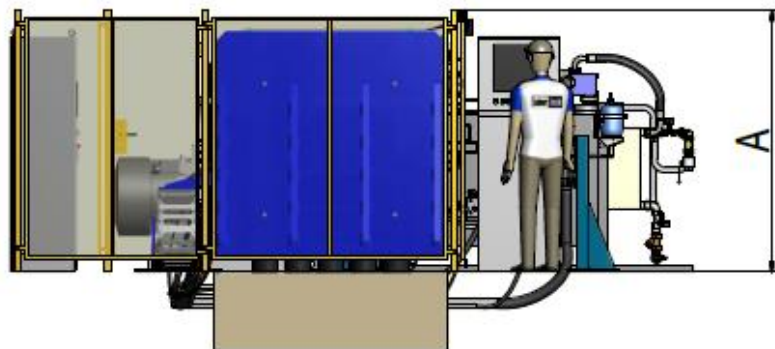
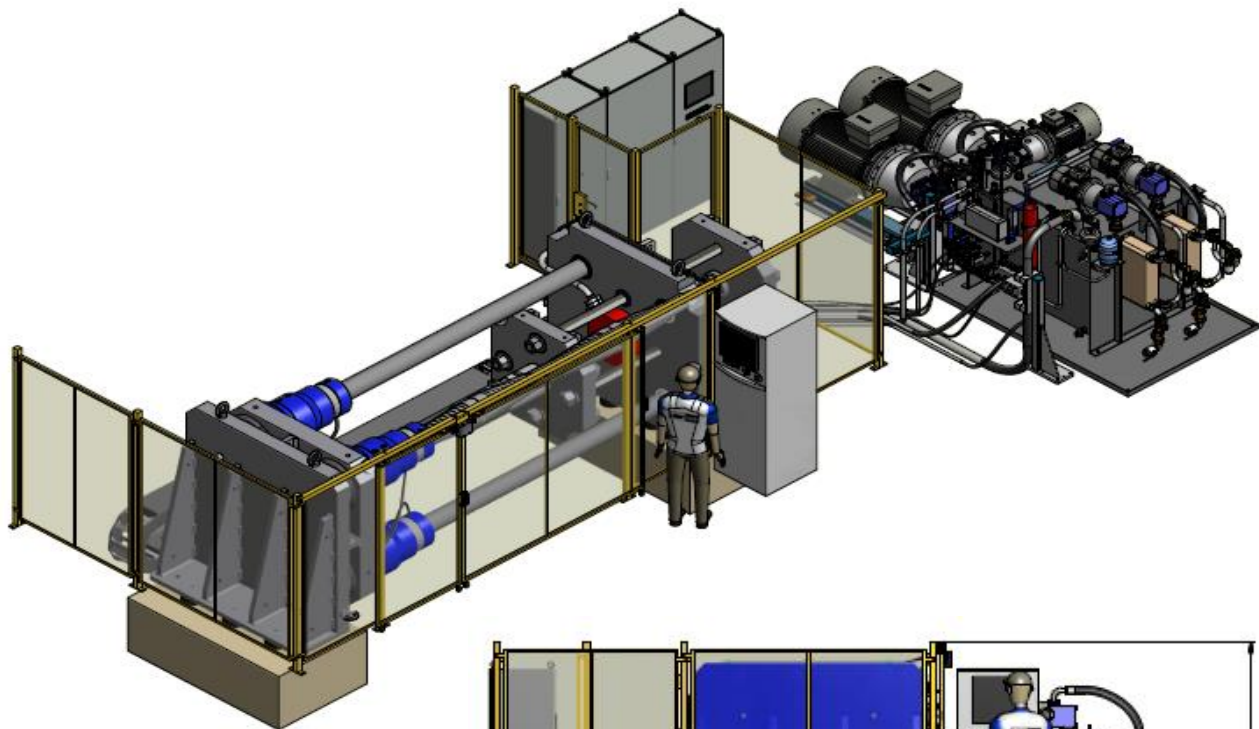
Supplements and Accessories

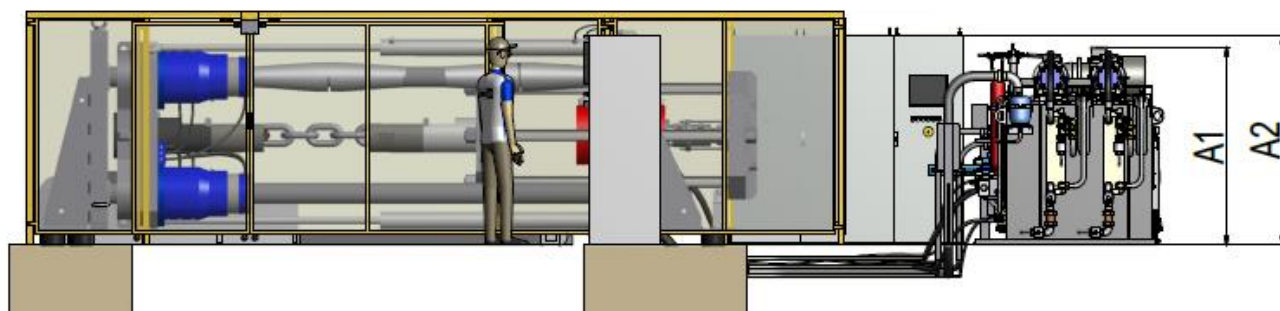
- Wide range of clamping grips, compression and bending tools
- Extensometers (mechanical, contactless)
- Safety covers of whole machine
- Temperature chambers and furnaces



Software Features Test & Motion[®] - DYNPACK[®]

- 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 the resulting data in ASCII format, SQL and Excel file
- Transferring data from other devices like touch thickness gauge, weight, etc.
- Compatibility with every 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	6.3000H.6	6.4000H.6
Load capacity	kN	3000	4000
Number of columns		4	
Crosspiece travel		Hydraulic – by remote control	
Crosspiece clamping		Hydraulic – by remote control	
Height of the Machine (A) ¹	mm	2000	2000
Width of the Machine (B)	mm	6150	6150
Width of the Machine including fence (B3)	mm	6990	6990
Depth of the Machine (C)	mm	2400	2400
Depth of the Machine including fence (C3)	mm	3435	3435
Width of test pace (D)	mm	840	820
Diameter of column (E)	mm	160	180
Height of test space (F) ²	mm	2850	2712
Displacement of X-head (G)	mm	1900	1900
Weight ³	kg	32100	33200
Frame stiffness at 1000 mm – stress analysis	kN	8500	9800
Frame for pistons with a max. stroke ⁴	mm	200	
Height of Hydraulic unit (A1)	mm	1700	
Width of Hydraulic unit (B1)	mm	4426	
Depth of Hydraulic unit (C1)	mm	1550	
Height of the Operating panel (A2)	mm	1800	
Width of the Operating panel (B2)	mm	2020	
Depth of the Operating panel (C2)	mm	505	
Environmental conditions			
Operating temperature	°C	10 to 35	
Storage temperature	°C	-35 to 55	
Humidity range	%	< 90	
Noise ⁵	dB	< 78	
Electrical connection			
Supply voltage	V	3Ph/N/PE/400/50-60Hz	
Fuse	A	630	
Power range	kVA	300	

¹Machine height including vibration dampers

Technical changes are reserved by manufacturer

²The distance between the piston and reverse X-head with stretched piston

³Weight without Hydraulic Unit, force transducers and all accessories

⁴Maximum test frequencies up to 10 Hz.

⁵Open HU used with water cooling, and measured in a static mode, measured 1 m from the HU.

Manufacturer:

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