Product Information
Servo-Hydraulic Horizontal Dynamic Testing Machines LabTest 6.xxxxxH.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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
<th>6.300kN.6</th>
<th>6.400kN.6</th>
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<tbody>
<tr>
<td>Load capacity</td>
<td>kN</td>
<td>3000</td>
<td>4000</td>
</tr>
<tr>
<td>Number of columns</td>
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<td>4</td>
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<tr>
<td>Crosspiece travel</td>
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<td></td>
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<tr>
<td>Crosspiece clamping</td>
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<tr>
<td>Height of the Machine</td>
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<tr>
<td>Width of the Machine</td>
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<tr>
<td>Width of the Machine including fence</td>
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<td>6990</td>
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<tr>
<td>Depth of the Machine</td>
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<tr>
<td>Depth of the Machine including fence</td>
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<tr>
<td>Width of test pace</td>
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<tr>
<td>Diameter of column</td>
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<tr>
<td>Displacement of X-head</td>
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<tr>
<td>Weight</td>
<td>kg</td>
<td>32100</td>
<td>33200</td>
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<td>Frame stiffness at 1000 mm – stress analysis</td>
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<td>9800</td>
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<tr>
<td>Depth of the Operating panel</td>
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<td>505</td>
<td></td>
</tr>
</tbody>
</table>

### Environmental conditions
- **Operating temperature**
  - °C: 10 to 35
- **Storage temperature**
  - °C: -35 to 55
- **Humidity range**
  - %: < 90
- **Noise**
  - dB: < 78

### Electrical connection
- **Supply voltage**
  - V: 3Ph/N/PE/400/50-60Hz
- **Fuse**
  - A: 630
- **Power range**
  - kVA: 300

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¹ Machine height including vibration dampers
² The distance between the piston and reverse X-head with stretched piston
³ Weight without Hydraulic Unit, force transducers and all accessories
⁴ Maximum test frequencies up to 10 Hz.
⁵ Open HU used with water cooling, and measured in a static mode, measured 1 m from the HU

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**Manufacturer:**

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