Product Information

Hydraulic Vertical Four Columns Testing Machines for Testing in Pressure LabTest 6.xxxxH.4

Machine use

Hydraulic four-column universal testing machines of the series H.4 with new design are intended for the mechanical tests in tensile, compression and bending for concrete plates, concrete cubes, girders and other components. Standard equipment includes a centrally placed, quiet and economical hydraulic drive. Due to machine series H.4 variability and wide range of accessories, it is possible to perform tests of any material in pressure at max. load 6 MN.

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 ensures high rigidity and X-head deformation at full load 0.12 mm, the machine's lifespan and resistance to vibration into the floor.
- Quiet hydraulic drive with low noise <65 dB and power consumption, automatic control of oil level and temperature and cooling allow testing in 3-shift operation.
- Automatic check of the controlled loading in kN/sec or MPa/sec by proportional servo valve MOOG.
- A modular configuration of the machine with the ability to add any accessories from LABORTECH company that includes accessories for 3point bending, special pressure plates, measuring probes etc.
- Measuring and evaluation desk with LCD display makes it simple to control and configure the testing press. A part of the desk is USB or LAN slot for communication with PC, an optional slot for connecting a printer for printing the protocol.
- 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.
- Possibility to extend the machine with additional deformation sensors.
- Support according standards: DIN, EN, ISO, ASTM, GOST (EN 12390-4 / BS 1881:115 / DIN 51220, 51223, 51302).

The basic machine includes:

- The frame including an oil load sensor
- Protective safety shield
- Economical, silent Hydraulic unit with cooling
- Measuring and control electronics EDC 222 with LCD and STOP button
- Hydraulic connection between hydraulic unit and the frame
- EDC 222 with integrated software

Supplements and Accessories

- Wide range of pressing tools
- Extensometers and track sensors for measuring the modulus of elasticity
- Safety shields 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









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

Manufacturer:

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Technical changes are reserved by manufacturer

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

³Weight without hydraulic unit, force transducers and all accessories

⁴Dimensions including locking legs

⁵Height of test pace without compression tools

⁶If the HU is covered with original manufacturer cover. Measured at 1 m distance from HU without loading