

Electromechanical testing machines series

LabTest 6.10 - 6.30 E.2

The test frames of the LabTest E.2 series electromechanical testing machines with a capacity of up to 30 kN are ideal for static tests in tension, compression, bending and torsion with continuous, static and low-cycle loading up to 2 Hz.

Configurability and flexibility are the main advantages of this series. There are at least three basic lengths of test spaces for each type and at least three basic widths of working spaces. The machines are available in both benchtop and pedestal versions with integrated or external measuring and control electronics. For maximum flexibility, one or optionally two test/test areas with full load (not included as standard) can be used. For testing materials under various conditions, LabTest E.2 testing machines can be equipped with a temperature chamber, high-temperature furnace, extensometers, pneumatic or hydraulic jaws, etc., which allow tests to be performed under both standard and specific conditions. This fully digital test system with high precision includes automated computer control of test methods, which not only simplifies operation, but also greatly improves work efficiency.

Safety and reliability are ensured by the mechanical and electronic protection of the test frame against overload, run-over and impact, which contributes to the long service life of the device. The LabTest E.2 series testing machines are thus the ideal tool for reliable and precise material testing in various industrial applications.

Versatility, accuracy, repeatability and performance are our priorities...















Industry

engineering, plastics, construction, automotive, research institutions and schools, etc.



Key features and benefits of the E.2 series

We use new technologies and emphasize safety...



Trial frames

The LabTest test frame is designed for maximum robustness and accuracy, ensuring reliable performance in a wide range of test applications. Its high rigidity and precise crossbeam guidance system guarantee absolute coaxiality and high static and dynamic load capacity, including resistance to off-axis loads. The frame uses a linear guide with a profile rail with a hardness of 300 HV and a carriage with high preloading. The vertical movement of the crossbar is controlled by ball screws, ensuring accurate and repeatable position during each test. The integrated lubrication system contributes to a long service life and reliable operation.



Force sensors

In our LabTest testing machines, we use LTx Force force sensors of our own production as well as sensors from renowned manufacturers, which can be calibrated in accordance with ČSN EN ISO 7500-1 and ASTM E4-21 standards. All force transducers have several key features in common: tensile and compressive measurement, high accuracy – accuracy class 0.02 to 0.05, extreme overload capacity of up to 300% of the nominal force without breaking, mechanical resistance, fatigue strength and resistance to transverse tensile and compressive forces. Each force transducer is equipped with an EEPROM that allows automatic identification of the load cell, storage of calibration constants and linearization at multiple points for tension



Powerful and precise AC servo drive

LabTest testing machines are equipped with powerful, dynamic and maintenance-free AC servo drives, which provide exceptional accuracy and reliability during testing. These drives ensure consistent speed even at extremely low values, down to 0.0005 mm/min, which is essential for performing high-precision tests. With a feedback encoder resolution of up to 2,097,152 pulses per revolution, these servo drives provide exceptional positioning accuracy and motion stability even at very low speeds, ensuring a fast and accurate response to changes during testing. The servo drive is optimized so that the return rate exceeds the standard test speed by at least 50%, which significantly reduces the time required for repeated tests.



Measuring and control electronics

LabTest testing machines are equipped with powerful measuring and control electronics that ensure precise control of the tests. Two variants are available: EDCi2Ox for static applications with a maximum test frequency of 5 Hz and a data communication rate of 2.5 kHz. It has 3 external slots (expandable to 16) and an effective tensile/compression resolution of ±1,000,000 pieces. EDCi7Ox for static and dynamic applications with a maximum frequency of 300 Hz and a communication speed of 10 kHz. It offers 8 external slots (expandable to 16) and a standard resolution of ±250,000 pieces. Both variants support automatic sensor identification, linearization for tension/compression, and zero-force correction. The PC interface includes USB 3.0 and Ethernet 10/100 Mbit The electronics meet CE standards and include ECO mode and E-Stop functions



Remote control of the machine

The remote control of LabTest testing machines ensures high comfort and flexibility in the control of test processes. We offer a variety of controller options, including the RMCi6, RMCi7, RMCi10, and wireless LTWO 23. All controllers are designed with ergonomics in mind according to the ČSN EN 614-1+A1 standard, which ensures easy and comfortable use. The RMCi10, the top-of-the-line version of the controller, is equipped with a touchscreen LCD that allows full test control even without connecting to a PC. Users can set any speed and perform test crossbar stepping directly on the controller. This approach increases the flexibility and efficiency of testing, while at the same time paying attention to ergonomics and operator comfort.



Test&Motion+ Testing Software

It is included with every LabTest testing machine and is designed to increase productivity and quality testing. This intuitive software allows tests to be performed efficiently and accurately with a customizable environment for measuring the mechanical properties of materials. The user-friendly interface on the LCD touchscreens makes operation easy. It supports international standards (EN, ISO, DIN, ASTM, GOST) and allows the creation and management of test methods for different types of tests. It provides instant and accurate results, facilitates integration with automation systems, and offers easy export



Testing accessories

LabTest testing machines are designed with flexibility and adaptability in mind, allowing for easy integration of different types of accessories. The most commonly used include VIDEO extensometers for non-contact measurement of deformations, temperature chambers and high-temperature furnaces for metal testing according to the ČSN EN ISO 6892-2 standard. These components allow tests to be carried out at various temperatures, including extremely high. Protective safety covers, designed in accordance with the EN ISO 14120 standard, ensure a safe working environment and operator protection. Thanks to the possibility of expansion with a second workspace and compatibility with measuring and control electronics, LabTest machines



Specification of LabTest 6.10.1.xx – D460 mm testing machines

| Ratings | Units | LabTest 6.10.1.00 | LabTest 6.10.1.10 | LabTest 6.10.1.20 | LabTest 6.10.1.30 |
|--|---------|--|---------------------------|--------------------------|--------------------|
| Product code | | 1.05020017 | 1.05020117 | 1.05020217 | 1.05020317 |
| Test force | Cn | 10 | 10 | 10 | 10 |
| Machine configuration | | Two-column | n table or stand design ' | with internal or externa | l electronics |
| Measurement accuracy | | Better th | an +/- 0.5% read down | to 1/1000th of load cel | ll capacity |
| Workspace | | | | | |
| Width of the working area (D) | mm | 460 | 460 | 460 | 460 |
| Test area height–lower (E1) | mm | 510 | 1100 | 1700 | 2300 |
| Test Compartment Height - Upper (E2) 1 | mm | 520 | 1110 | 1710 | 2310 |
| Trial frame – tabletop version | | | | | |
| Machine height – benchtop version (A) | mm | 940 | 1530 | 2130 | 2730 |
| Machine width with integrated electronics (B) – MI version – desktop version | mm | 877 | 877 | 877 | 877 |
| Machine width with external electronics (B) – MO ² version | mm | 1006 | 1006 | 1006 | 1006 |
| Machine depth - benchtop version (C) | mm | 663 | 663 | 663 | 663 |
| Trial frame – rack version | | | | | |
| Machine height-rack version (A) | mm | 1170 1520 | 1760 2110 | 2160-2710 | 2960 3310 |
| Machine width with integrated electronics (B) – MI version – stand version | mm | 900 | 900 | 900 | 900 |
| Machine width with external electronics (B) – MO ² version | mm | 1029 | 1029 | 1029 | 1029 |
| Machine depth - rack version (C) | | 900 | 900 | 900 | 900 |
| Electric drive | | | | | |
| Crossbar speed – min | mm/min | 0,0005 | 0,0005 | 0,0005 | 0,0005 |
| Crossbar speed – max³ | mm/min | 3000 | 3000 | 3000 | 3000 |
| Crossbar speed – return³ | mm/min | 3000 3000 3000 | | 3000 | |
| Precision speed control | % | +/- 0,03 | +/- 0,03 | +/-0,03 | +/- 0,03 |
| Position repeatability | μm | ±1,5 ±1,5 ±1,5 | | ±1,5 | |
| Machine drive differentiation | nm | 0,047875 | 0,047875 | 0,047875 | 0,047875 |
| Cycle time | Hz | 2500 | 2500 | 2500 | 2500 |
| Engine type | | AC servo motor with high torque thanks to special winding | | | inding |
| Feedback Position Measurement | | 21-bit absolute magnetic encoder with a resolution of min 2,097,152 imp, HIPERFACE | | | L52 imp, HIPERFACE |
| Controller | | Fully digital, pulse frequency 4MHz, communication interface EtherCAT, CAN open | | | erCAT, CAN open |
| Electrical connection | | , , , | | | · |
| Supply voltage/frequency | V / Hz | | 115 or 230/5 | 0-60/1 phase | |
| Machine power consumption | Kva | 1,5 | 1,5 | 1,5 | 1,5 |
| Other parameters | | | | | |
| The basic weight of the machine without | medical | 148 | 164 | 180 | 204 |
| Machine noise at V max ⁴ | dB | 67 | 67 | 67 | 67 |
| Color combination | RAL | | 1015 | | |
| Interface to PC ⁵ | | USB, Ethernet | | | |
| Environmental conditions | | | | | |
| Working Environment Temperature | °C | | +10. | +35 | |
| Humidity of the working environment | % | | | 90 | |
| • | | | | | |

¹ The upper working space is not in the foundation of the testing machine (as, accessory)

² Measuring and control electronics are located on a swivel joint
³ If a protective cover is not included in the testing machine, the return test speed is limited in accordance with EN ISO 12100 and EN ISO 14120
⁴ The measurement of machine noise is in accordance with the ČSN EN ISO 3745 standard - Acoustics - Determination of sound power levels ...

⁵ More information on page 12



Specification of LabTest 6.10.1.xx – D650 mm testing machines

| Ratings | Units | LabTest 6.10.1.01 | LabTest 6.10.1.11 | LabTest 6.10.1.21 | LabTest 6.10.1.31 | |
|--|---------|--|-------------------------|--------------------------|-------------------|--|
| Product code | | 1.05020417 | 1.05020517 | 1.05020617 | 1.05020724 | |
| Test force | Cn | 10 | 10 | 10 | 10 | |
| Machine configuration | | Two-columi | n table or stand design | with internal or externa | l electronics | |
| Measurement accuracy | | Better th | an +/- 0.5% read down | to 1/1000th of load cel | I capacity | |
| Workspace | | | | | | |
| Width of the working area (D) | mm | 650 | 650 | 650 | 650 | |
| Test area height–lower (E1) | mm | 510 | 1100 | 1700 | 2300 | |
| Test Compartment Height - Upper (E2) 1 | mm | 520 | 1110 | 1710 | 2310 | |
| Trial frame – tabletop version | | | | | | |
| Machine height – benchtop version (A) | mm | 940 | 1530 | 2130 | 2730 | |
| Machine width with integrated electronics (B) – MI version – desktop version | mm | 1327 | 1327 | 1327 | 1327 | |
| Machine width with external electronics (B) – MO ² version | mm | 1456 | 1456 | 1456 | 1456 | |
| Machine depth - benchtop version (C) | mm | 663 | 663 | 663 | 663 | |
| Trial frame – rack version | | | | | | |
| Machine height – rack version (A) | mm | 1170 1520 | 1760 2110 | 2160-2710 | 2960 3310 | |
| Machine width with integrated electronics (B) – MI version – stand version | mm | 1350 | 1350 | 1350 | 1350 | |
| Machine width with external electronics (B) – MO ² version | mm | 1479 | 1479 | 1479 | 1479 | |
| Machine depth - rack version (C) | | 900 | 900 | 900 | 900 | |
| Electric drive | | | | | | |
| Crossbar speed – min | mm/min | 0,0005 | 0,0005 | 0,0005 | 0,0005 | |
| Crossbar speed – max³ | mm/min | 3000 | 3000 | 3000 | 3000 | |
| Crossbar speed – return³ | mm/min | 3000 3000 3000 | | 3000 | | |
| Precision speed control | % | +/- 0,03 +/- 0,03 +/- 0,03 | | +/- 0,03 | | |
| Position repeatability | μm | ±1,5 ±1,5 ±1,5 | | ±1,5 | | |
| Machine drive differentiation | nm | 0,047875 | 0,047875 | 0,047875 | 0,047875 | |
| Cycle time | Hz | 2500 | 2500 | 2500 | 2500 | |
| Engine type | | AC servo motor with high torque thanks to special winding | | | | |
| Feedback Position Measurement | | 21-bit absolute magnetic encoder with a resolution of min 2,097,152 imp, HIPERFACE | | | | |
| Controller | | Fully digital, pulse frequency 4MHz, communication interface EtherCAT, CAN open | | | erCAT, CAN open | |
| Electrical connection | | | | | | |
| Supply voltage/frequency | V / Hz | | 115 or 230/5 | 0-60/1 phase | | |
| Machine power consumption | Kva | 1,5 | 1,5 | 1,5 | 1,5 | |
| Other parameters | | | | | | |
| The basic weight of the machine without | medical | 177 | 208 | 233 | 269 | |
| Machine noise at V max⁴ | dB | 67 | 67 | 67 | 67 | |
| Color combination | RAL | 1015,5015 | | | | |
| PC interface | | | | thernet | | |
| Environmental conditions | | | , | | | |
| Working Environment Temperature | °C | | +10. | +35 | | |
| Humidity of the working environment | % | | < 9 | 90 | | |

¹ The upper working space is not in the foundation of the testing machine (as, accessory)

Measuring and control electronics are located on a swivel joint
If a protective cover is not included in the testing machine, the return test speed is limited in accordance with EN ISO 12100 and EN ISO 14120
The measurement of machine noise is in accordance with the CSN EN ISO 3745 standard - Acoustics - Determination of sound power levels ...

⁵ More information on page 12



Specification of LabTest 6.10.1.xx – D910 mm testing machines

| Ratings | Units | LabTest 6.10.1.02 | LabTest 6.10.1.12 | |
|--|--------|---|---------------------------------------|--|
| Product code | | 1.05020817 | 1.05020917 | |
| Test force | kn | 10 | 10 | |
| Machine configuration | | Two-column table or stand design w | rith internal or external electronics | |
| Measurement accuracy | | Better than +/- 0.5% read down to | | |
| Workspace | | | , , | |
| Width of the working area (D) | mm | 910 | 910 | |
| Test area height – lower (E1) | mm | 510 | 1100 | |
| Test Compartment Height - Upper (E2) 1 | mm | 520 | 1110 | |
| Trial frame – tabletop version | | | | |
| Machine height – benchtop version (A) | mm | 940 | 1530 | |
| Machine width with integrated electronics (B) – MI version – desktop version | mm | 1067 | 1067 | |
| Machine width with external electronics (B) – MO ² version | mm | 1196 | 1196 | |
| Machine depth - benchtop version (C) Trial frame – rack version | mm | 663 | 663 | |
| Machine height – rack version (A) | mm | 11701520 | 1760 2110 | |
| Machine width with integrated electronics (B) – MI version – stand version | mm | 1090 | 1090 | |
| Machine width with external electronics (B) – MO ² version | mm | 1219 | 1219 | |
| Machine depth - rack version (C) | | 900 | 900 | |
| Electric drive | | | | |
| Crossbar speed – min | mm/min | 0,0005 | 0,0005 | |
| Crossbar speed – max³ | mm/min | 3000 | 3000 | |
| Crossbar speed – return³ | mm/min | 3000 | 3000 | |
| Precision speed control | % | +/- 0,03 | +/- 0,03 | |
| Position repeatability | μm | ±1,5 | | |
| Machine drive differentiation | nm | 0,047875 0,047875 | | |
| Cycle time | Hz | 2500 2500 | | |
| Engine type | | AC servo motor with high torque thanks to special winding | | |
| Feedback Position Measurement | | 21-bit absolute magnetic encoder with a resolution of min 2,097,152 imp, HIPERF | | |
| Controller | | Fully digital, pulse frequency 4MHz, communication interface EtherCAT, CAN oper | | |
| Electrical connection | | | | |
| Supply voltage/frequency | V / Hz | 115 or 230/50-60/1 phase | | |
| Machine power consumption | Kva | 1,5 | 1,5 | |
| Other parameters | | | | |
| The basic weight of the machine without | Kg | 197 | 222 | |
| Machine noise at V max ⁴ | dB | 67 | 67 | |
| Color combination | RAL | 1015, 5015 | | |
| Interface to PC ⁵ | | USB, Etl | | |
| Environmental conditions | | | | |
| Working Environment Temperature | °C | +10 | +35 | |
| Humidity of the working environment | % | <90 | | |

¹ The upper working space is not in the foundation of the testing machine (as, accessory)

Reasuring and control electronics are located on a swivel joint of a protective cover is not included in the testing machine, the return test speed is limited in accordance with EN ISO 12100 and EN ISO 14120 and EN ISO 3745 standard - Acoustics - Determination of sound power levels ...

⁵ More information on page 12



Specification of LabTest 6.20.1.xx – D460 mm testing machines

| Ratings | Units | LabTest 6.20.1.00 | LabTest 6.20.1.10 | LabTest 6.20.1.20 | LabTest 6.20.1.30 |
|--|---------|--|---------------------------------------|--------------------------|-------------------|
| Product code | | 1.05030017 | 1.05030117 | 1.05030217 | 1.05030317 |
| Test force | Cn | 20 | 20 | 20 | 20 |
| Machine configuration | | Two-column | n table or stand design ' | with internal or externa | l electronics |
| Measurement accuracy | | Better th | an +/- 0.5% read down | to 1/1000th of load cel | ll capacity |
| Workspace | | | | | |
| Width of the working area (D) | mm | 460 | 460 | 460 | 460 |
| Test area height–lower (E1) | mm | 510 | 1100 | 1700 | 2300 |
| Test Compartment Height - Upper (E2) 1 | mm | 520 | 1110 | 1710 | 2310 |
| Trial frame – tabletop version | | | | | |
| Machine height – benchtop version (A) | mm | 940 | 1530 | 2130 | 2730 |
| Machine width with integrated electronics (B) – MI version – desktop version | mm | 877 | 877 | 877 | 877 |
| Machine width with external electronics (B) – MO ² version | mm | 1006 | 1006 | 1006 | 1006 |
| Machine depth - benchtop version (C) | mm | 663 | 663 | 663 | 663 |
| Trial frame – rack version | | | | | |
| Machine height-rack version (A) | mm | 1170 1520 | 1760 2110 | 2160-2710 | 2960 3310 |
| Machine width with integrated electronics (B) – MI version – stand version | mm | 900 | 900 | 900 | 900 |
| Machine width with external electronics (B) – MO ² version | mm | 1029 | 1029 | 1029 | 1029 |
| Machine depth - rack version (C) | | 900 | 900 | 900 | 900 |
| Electric drive | | | | | |
| Crossbar speed – min | mm/min | 0,0005 | 0,0005 | 0,0005 | 0,0005 |
| Crossbar speed – max³ | mm/min | 2000 | 2000 | 2000 | 2000 |
| Crossbar speed – return³ | mm/min | 2000 2000 2000 | | 2000 | |
| Precision speed control | % | +/- 0,03 | +/- 0,03 | +/-0,03 | +/- 0,03 |
| Position repeatability | μm | ±1,5 | ±1,5 | ±1,5 | ±1,5 |
| Machine drive differentiation | nm | 0,047875 | 0,047875 | 0,047875 | 0,047875 |
| Cycle time | Hz | 2500 | 2500 | 2500 | 2500 |
| Engine type | | AC servo motor with high torque thanks to special winding | | | inding |
| Feedback Position Measurement | | 21-bit absolute magnetic encoder with a resolution of min 2,097,152 imp, HIPERFACE | | | - |
| Controller | | Fully digital, pulse frequency 4MHz, communication interface EtherCAT, CAN open | | | |
| Electrical connection | | | | | |
| Supply voltage/frequency | V / Hz | | 115 or 230/5 | 0-60/1 phase | |
| Machine power consumption | Kva | 1,5 | 1,5 | 1,5 | 1,5 |
| Other parameters | | _,- | _,- | _,- | |
| The basic weight of the machine without | medical | 155 | 171 | 188 | 212 |
| Machine noise at V max ⁴ | dB | 67 | 67 | 67 | 67 |
| Color combination | RAL | | | | -, |
| Interface to PC ⁵ | | 1015, 5015 USB, Ethernet | | | |
| Environmental conditions | | | | | |
| Working Environment Temperature | °C | | +10 | +35 | |
| Humidity of the working environment | % | | | 90 | |
| , | | | · · · · · · · · · · · · · · · · · · · | | |

¹ The upper working space is not in the foundation of the testing machine (as, accessory)
² Measuring and control electronics are located on a swivel joint
³ If a protective cover is not included in the testing machine, the return test speed is limited in accordance with EN ISO 12100 and EN ISO 14120
⁴ The measurement of machine noise is in accordance with the CSN EN ISO 3745 standard - Acoustics - Determination of sound power levels ...

⁵ More information on page 12



Specification of LabTest 6.20.1.xx – D650 mm testing machines

| Test force | t 6.20.1.31 |
|--|--------------|
| Machine configuration Two-column table or stand design with internal or external electron Better than +/- 0.5% read down to 1/1000th of load cell capacit Workspace Workspace Workspace Width of the working area (D) mm 650 650 650 Test area height - lower (E1) mm 1100 1700 233 Test Compartment Height - Upper (E2)¹ mm 1110 1710 233 Trail frame - tabletop version mm 1530 2130 273 Machine height - benchtop version (A) mm 1530 2130 273 Machine width with integrated electronics (B) - MO' version mm 1456 1456 1456 144 Machine width with external electronics (B) - MO' version mm 1760 - 2110 2160 - 2710 2960 - 2960 | 030617 |
| Measurement accuracy Better than +/- 0.5% read down to 1/1000th of load cell capacit Workspace Width of the working area (D) mm 650 650 650 Test area height - lower (E1) mm 1100 1700 236 Test Compartment Height - Upper (E2)¹ mm 1110 1710 233 Trial frame - tabletop version machine height - benchtop version (A) mm 1530 2130 27¹ Machine width with integrated electronics (B) - MO² version mm 1327 1327 136 Machine width with external electronics (B) - MO² version mm 1456 1456 144 Machine height - rack version (A) mm 17602110 2160-2710 2960 Machine width with integrated electronics (B) - MO² version mm 1350 1350 13¹ Machine width with external electronics (B) - MO² version mm 1479 1479 14² Machine width with external electronics (B) - MO² version mm 1479 1479 14² Machine width with external electronic (B) - MO² version mm 1479 1479 </td <td>20</td> | 20 |
| Workspace Width of the working area (D) mm 650 650 65 Test area height – lower (E1) mm 1100 1700 23 Test Compartment Height – Upper (E2)* mm 1110 1710 23 Trial frame – tabletop version Wachine height – benchtop version (A) mm 1530 2130 27 Machine width with integrated electronics (B) – MI version – desk top version mm 1327 1337 133 Machine width with integrated electronics (B) – MO² version mm 1456 1456 145 Machine depth – benchtop version (C) mm 663 663 663 66 Machine width with integrated electronics (B) – MO² version mm 1760 2110 2160-2710 2960 Machine width with integrated electronics (B) – MO² version mm 1350 1350 135 Machine width with external electronics (B) – MO² version mm 1479 1479 1479 Machine width with external electronics (B) – MO² version mm 1479 1479 1479 Crossbar speed – mo² version | ronics |
| Width of the working area (D) mm 650 650 65 Test area height – lower (E1) mm 1100 1700 236 Test Compartment Height - Upper (E2)* mm 1110 1710 233 Trial frame – tabletop version (A) mm 1530 2130 277 Machine width with integrated electronics (B) – MIV version mm 1327 1327 136 Machine width with external electronics (B) – MIV version mm 1456 1456 144 Machine width benchtop version (C) mm 663 663 663 Machine elepth – benchtop version (C) mm 1760 2110 2160-2710 2960 Machine width with integrated electronics (B) – MIV version mm 1760 2110 2160-2710 2960 Machine width with external electronics (B) – MIV version mm 1479 1479 147 Machine width with testernal electronics (B) – MIV version mm 1479 1479 147 Machine width with testernal electronics (B) – MIV version mm 1479 1479 1479 | city |
| Test area height – lower (E1) mm 1100 1700 23t Test Compartment Height – Upper (E2) 1 mm 1110 1710 23t Trial frame – tabletop version mm 1530 2130 27t Machine width with integrated electronics (B) – MI version – desktop version mm 1327 1327 133 Machine width with external electronics (B) – MO² version mm 1456 1456 1456 Machine elegth - benchtop version (C) mm 663 663 66 Trial frame – rack version mm 1760 2110 21602710 2960 Machine height – rack version (A) mm 1760 2110 21602710 2960 Machine width with integrated electronics (B) – MI version – stand version mm 1350 1350 135 Machine width with external electronics (B) – MO² version mm 1479 1479 14 Machine width with external electronics (B) – MO² version mm 1479 1479 14 Machine depth – rack version (C) 900 900 90 90 | |
| Test Compartment Height - Upper (E2)¹ mm 1110 1710 233 Trial frame - tabletop version Machine height - benchtop version (A) mm 1530 2130 273 Machine width with integrated electronics (B) - MIV version - desktop version mm 1327 1327 1327 133 Machine width with external electronics (B) - MO² version mm 1456 1456 145 Machine depth - benchtop version (C) mm 663 663 663 66 Trial frame - rack version mm 1760 - 2110 2160 - 2710 2960 Machine height - frack version (A) mm 1760 - 2110 2160 - 2710 2960 Machine width with integrated electronics (B) - MIV version - stand version mm 1350 1350 135 Machine width with external electronics (B) - MIV version mm 1479 1479 14 electric drive 900 900 900 90 90 Electric drive 900 900 90 90 Electrical constance of the version (C) 900 <th< td=""><td>650</td></th<> | 650 |
| Trial frame – tabletop version Machine height – benchtop version (A) mm 1530 2130 275 Machine width with integrated electronics (B) – Miversion – desktop version mm 1327 1327 132 Machine width with integrated electronics (B) – Mo² version mm 1456 1456 145 Machine width with external electronics (B) – Mo² version mm 663 663 66 Trial frame – rack version mm 1760 2110 2160-2710 2960 Machine height – rack version (A) mm 1760 2110 2160-2710 2960 Machine width with integrated electronics (B) – Mo² version mm 1350 1350 135 Machine width with external electronics (B) – Mo² version mm 1479 1479 147 electrid drive Tossbar speed – min mm/min 0,0005 0,0005 0,000 Electrid drive Tossbar speed – return³ mm/min 2000 2000 200 Crossbar speed – return³ mm/min 2000 2000 200 Precision speed control % | 2300 |
| Machine height - benchtop version (A) mm 1530 2130 27 Machine width with integrated electronics (B) - MI version - desktop version mm 1327 1327 1327 136 Machine width with external electronics (B) - MO² version mm 1456 1456 145 Machine depth - benchtop version (C) mm 663 663 66 Trial frame - rack version Wachine height - rack version (A) mm 1760 2110 2160-2710 2960 Machine width with integrated electronics (B) - MI version - stand version mm 1350 1350 135 Machine width with integrated electronics (B) - MO² version mm 1479 1479 147 Machine width with integrated electronics (B) - MO² version mm 1479 1479 147 Machine width with external electronics (B) - MO² version mm 1479 1479 147 Machine width with external electronics (B) - MO² version mm 1479 1479 147 Machine width with external electronics (B) - MO² version mm 10,0000 0,000 0,000 | 2310 |
| Machine width with integrated electronics (B) – MI version – desktop version mm 1327 1327 1327 Machine width with external electronics (B) – MO² version mm 1456 1456 145 Machine depth - benchtop version (C) mm 663 663 665 Trial frame – rack version Trial frame – rack version (A) mm 1760–2110 2160–2710 2960 Machine eleight – rack version (A) mm 1350 1350 135 Machine width with integrated electronics (B) – MO² version mm 1479 1479 1479 Machine width with external electronics (B) – MO² version mm 1479 1479 147 Machine depth – rack version (C) 900 900 90 90 Electric drive Crossbar speed – min mm/min 0,0005 0,0005 0,000 Electric drive Crossbar speed – return³ mm/min 2000 2000 200 Crossbar speed – return³ mm/min 2000 2000 200 200 Precision speed control % | |
| (B) – MI version – desktop version Machine width with external electronics (B) – MO² version Machine depth - benchtop version (C) Machine depth - benchtop version (C) Machine height - rack version (A) Machine width with integrated electronics (B) – MI version – stand version Machine width with external electronics (B) – MI version – stand version Machine width with external electronics (B) – MO² version Machine depth - rack version (C) Supply version Machine depth - rack version (C) Fully digital, pulse frequency 4MHz, communication interface Ether CAT, Cathering to the control of the contro | 2730 |
| electronics (B) – MO² version | .327 |
| Trial frame – rack version Machine height – rack version (A) mm 1760 2110 2160-2710 2960 Machine width with integrated electronics (B) – MI version – stand version mm 1350 1350 135 Machine width with external electronics (B) – MO² version mm 1479 1479 14² Machine depth – rack version (C) 900 900 90 90 Electric drive Crossbar speed – min mm/min 0,0005 0,0005 0,00 Crossbar speed – max³ mm/min 2000 2000 200 Crossbar speed – return³ mm/min 2000 2000 200 Precision speed control % +/-0,03 +/-0,03 +/-0,03 +/-0 Position repeatability µm ±1,5 ±1,5 ±1 Machine drive differentiation nm 0,047875 0,047875 0,047 Cycle time Hz 2500 250 25 Engine type AC servo motor with high torque thanks to special winding 21-bit absolute magnetic encoder with a resolution of m | .456 |
| Machine height—rack version (A) mm 1760 2110 2160-2710 2960 Machine width with integrated electronics (B) – MI version – stand version mm 1350 1350 136 Machine width with external electronics (B) – MO² version mm 1479 1479 1479 1479 Machine depth - rack version (C) 900 <t< td=""><td>663</td></t<> | 663 |
| Machine width with integrated electronics (B) – MI version – stand version mm 1350 1350 1350 1350 1350 1350 1350 1350 | |
| (B) – MI version – stand version mm 1350 1350 Machine width with external electronics (B) – MO² version mm 1479 1479 1479 Machine depth – rack version (C) 900 900 900 900 Electric drive Crossbar speed – min mm/min 0,0005 0,0005 0,000 Crossbar speed – max³ mm/min 2000 2000 200 Crossbar speed – return³ mm/min 2000 2000 200 Precision speed control % +/- 0,03 +/- 0,04 -/- 0,04 -/- 0,04 -/- 0,04 -/- 0,04 -/- 0,04 -/- 0,04 -/- 0,04 -/- 0,04 -/- 0,04 -/- 0,04 -/- 0,04 | D 3310 |
| electronics (B) – Mo² version Machine depth - rack version (C) Flectric drive Crossbar speed – min Crossbar speed – max³ Crossbar speed – return³ mm/min mm/min | .350 |
| Electric drive Crossbar speed – min mm/min 0,0005 0,0005 0,0005 Crossbar speed – max³ mm/min 2000 2000 2000 Crossbar speed – return³ mm/min 2000 2000 2000 Precision speed control % +/- 0,03 +/- 0,03 +/- 0,03 +/- 0,03 Position repeatability µm ±1,5 ±1,5 ±1,5 ±1 Machine drive differentiation nm 0,047875 0,047875 0,047 Cycle time Hz 2500 2500 2500 Engine type AC servo motor with high torque thanks to special winding Feedback Position Measurement 21-bit absolute magnetic encoder with a resolution of min 2,097,152 imp, Controller Fully digital, pulse frequency 4MHz, communication interface EtherCAT, CElectrical connection Supply voltage/frequency V / Hz 115 or 230/50 CZK Machine power consumption Kva 1,5 1,5 1,5 1,7 | .479 |
| Crossbar speed – min mm/min 0,0005 0,0005 0,0005 Crossbar speed – max³ mm/min 2000 2000 2000 Crossbar speed – return³ mm/min 2000 2000 2000 Precision speed control % +/- 0,03 +/- 0,03 +/- 0,03 +/- 0,03 Position repeatability µm ±1,5 ±1,5 ±1 Machine drive differentiation nm 0,047875 0,047875 0,047875 Cycle time Hz 2500 2500 250 Engine type AC servo motor with high torque thanks to special winding Feedback Position Measurement 21-bit absolute magnetic encoder with a resolution of min 2,097,152 imp, Controller Fully digital, pulse frequency 4MHz, communication interface EtherCAT, Celectrical connection Supply voltage/frequency V / Hz 115 or 230/50 CZK Machine power consumption Kva 1,5 1,5 1,5 | 900 |
| Crossbar speed – max³ mm/min 2000 2000 2000 2000 Crossbar speed – return³ mm/min 2000 2000 2000 2000 Precision speed control % +/- 0,03 +/- 0,03 +/- 0,03 +/- 0,03 +/- 0,03 +/- 0,03 +/- 0,04 +/- 0,04 +/ | |
| Crossbar speed – return³ mm/min 2000 2000 2000 2000 Precision speed control % +/- 0,03 +/- 0,03 +/- 0,03 +/- 0,03 +/- 0,03 +/- 0,047 Position repeatability µm ±1,5 ±1,5 ±1,5 ±1 Machine drive differentiation nm 0,047875 0,047875 0,047875 0,047 Cycle time Hz 2500 2500 2500 250 Engine type AC servo motor with high torque thanks to special winding Feedback Position Measurement 21-bit absolute magnetic encoder with a resolution of min 2,097,152 imp, Controller Fully digital, pulse frequency 4MHz, communication interface EtherCAT, CElectrical connection Supply voltage/frequency V / Hz 115 or 230/50 CZK Machine power consumption Kva 1,5 1,5 1,5 | 0005 |
| Precision speed control Precision speed control Position repeatability Pum \$\frac{\frac{\pmathbf{1}}{21.5}}{\pmathbf{5}}\$ | 2000 |
| Position repeatability | 2000 |
| Machine drive differentiation nm 0,047875 0,047875 0,047 Cycle time Hz 2500 2500 250 Engine type AC servo motor with high torque thanks to special winding Feedback Position Measurement 21-bit absolute magnetic encoder with a resolution of min 2,097,152 imp, Controller Fully digital, pulse frequency 4MHz, communication interface EtherCAT, C Electrical connection Supply voltage/frequency V / Hz 115 or 230/50 CZK Machine power consumption Kva 1,5 1,5 1,5 | - 0,03 |
| Cycle time Hz 2500 2500 2500 Engine type AC servo motor with high torque thanks to special winding Feedback Position Measurement 21-bit absolute magnetic encoder with a resolution of min 2,097,152 imp, Controller Fully digital, pulse frequency 4MHz, communication interface EtherCAT, Celectrical connection Supply voltage/frequency V / Hz 115 or 230/50 CZK Machine power consumption Kva 1,5 1,5 1,5 | ±1,5 |
| Engine type AC servo motor with high torque thanks to special winding Feedback Position Measurement 21-bit absolute magnetic encoder with a resolution of min 2,097,152 imp, Controller Fully digital, pulse frequency 4MHz, communication interface EtherCAT, C Electrical connection Supply voltage/frequency V / Hz 115 or 230/50 CZK Machine power consumption Kva 1,5 1,5 1,6 | 47875 |
| Feedback Position Measurement 21-bit absolute magnetic encoder with a resolution of min 2,097,152 imp, Controller Fully digital, pulse frequency 4MHz, communication interface EtherCAT, C Electrical connection Supply voltage/frequency V / Hz 115 or 230/50 CZK Machine power consumption Kva 1,5 1,5 1,6 | 2500 |
| Controller Fully digital, pulse frequency 4MHz, communication interface EtherCAT, C Electrical connection Supply voltage/frequency V / Hz 115 or 230/50 CZK Machine power consumption Kva 1,5 1,5 1,5 | |
| Electrical connection Supply voltage/frequency Machine power consumption V / Hz V / Hz L15 or 230/50 CZK Kva 1,5 L5 1,5 | p, HIPERFACE |
| Supply voltage/frequency V / Hz 115 or 230/50 CZK Machine power consumption Kva 1,5 1,5 1, | , CAN open |
| Machine power consumption Kva 1,5 1,5 1,5 | |
| | |
| | 1,5 |
| Other parameters | |
| The basic weight of the machine without medical 208 233 26 | 269 |
| | 67 |
| Color combination RAL 1015, 5015 | |
| PC interface USB, Ethernet | |
| Environmental conditions | |
| Working Environment Temperature °C +10 +35 | |
| Humidity of the working environment % <90 | |

 $^{^{\}rm I}$ The upper working space is not in the foundation of the testing machine (as, accessory) $^{\rm 2}$ Measuring and control electronics are located on a swivel joint

³ If a protective cover is not included in the testing machine, the return test speed is limited in accordance with EN ISO 12100 and EN ISO 14120 ⁴ The measurement of machine noise is in accordance with the ČSN EN ISO 3745 standard - Acoustics - Determination of sound power levels ...

⁵ More information on page 12



Specification of LabTest 6.30.1.xx – D460 mm testing machines

| Ratings | Units | LabTest 6.30.1.10 LabTest 6.30.1.20 LabTest 6. | | |
|--|--------|--|----------------------------------|----------------------|
| Product code | | 1.05040117 | 1.05040217 | 1.05040317 |
| Test force | kn | 30 | 30 | 30 |
| Machine configuration | | Two-column table o | or stand design with internal or | external electronics |
| Measurement accuracy | | Better than +/- 0 | .5% read down to 1/1000th of | load cell capacity |
| Workspace | | | | |
| Width of the working area (D) | mm | 460 | 460 | 460 |
| Test area height–lower (E1) | mm | 1100 | 1700 | 2300 |
| Test Compartment Height - Upper (E2) 1 | mm | 1110 | 1710 | 2310 |
| Trial frame – tabletop version | | | | |
| Machine height – benchtop version (A) | mm | 1530 | 2130 | 2730 |
| Machine width with integrated electronics (B) – MI version – desktop version | mm | 877 | 877 | 877 |
| Machine width with external electronics (B) – MO ² version | mm | 1006 | 1006 | 1006 |
| Machine depth - benchtop version (C) Trial frame – rack version | mm | 663 | 663 | 663 |
| Machine height – rack version (A) | mm | 1760 2110 | 2160-2710 | 2960 3310 |
| Machine width with integrated electronics (B) – MI version – stand version | mm | 900 | 900 | 900 |
| Machine width with external electronics (B) – MO ² version | mm | 1029 | 1029 | 1029 |
| Machine depth - rack version (C) | | 900 | 900 | 900 |
| Electric drive | | | | |
| Crossbar speed – min | mm/min | 0,0005 | 0,0005 | 0,0005 |
| Crossbar speed – max³ | mm/min | 2000 | 2000 | 2000 |
| Crossbar speed – return³ | mm/min | 2000 | 2000 | 2000 |
| Precision speed control | % | +/- 0,03 | +/- 0,03 | +/- 0,03 |
| Position repeatability | μm | ±1,5 | ±1,5 | ±1,5 |
| Machine drive differentiation | nm | 0,047875 | 0,047875 | 0,047875 |
| Cycle time | Hz | 2500 2500 | | 2500 |
| Engine type | | AC servo motor with high torque thanks to special winding | | |
| Feedback Position Measurement | | 21-bit absolute magnetic encoder with a resolution of min 2,097,152 imp, HIPER | | |
| Controller | | Fully digital, pulse frequency 4MHz, communication interface EtherCAT, CAN op | | |
| Electrical connection | | | | |
| Supply voltage/frequency | V / Hz | | 115 or 230/50-60/1 phase | |
| Machine power consumption | Kva | 1,5 | 1,5 | 1,5 |
| Other parameters | | | | |
| The basic weight of the machine without | Kg | 195 | 212 | 228 |
| Machine noise at V max ⁴ | dB | 67 | 67 | 67 |
| Color combination | RAL | | 1015,5015 | |
| Interface to PC ⁵ | | | USB, Ethernet | |
| Environmental conditions | | | | |
| Working Environment Temperature | °C | | +10 +35 | |
| Humidity of the working environment | % | | <90 | |

¹ The upper working space is not in the foundation of the testing machine (as, accessory)

² Measuring and control electronics are located on a swivel joint

³ If a protective cover is not included in the testing machine, the return test speed is limited in accordance with EN ISO 12100 and EN ISO 14120 ⁴ The measurement of machine noise is in accordance with the ČSN EN ISO 3745 standard - Acoustics - Determination of sound power levels ...

⁵ More information on page 12



Specification of LabTest 6.30.1.xx – D650 mm testing machines

| Ratings | Units | LabTest 6.30.1.11 | LabTest 6.30.1.21 | LabTest 6.30.1.31 |
|--|---------|---|----------------------------------|----------------------|
| Product code | | 1.05040417 | 1.05040517 | 1.05040617 |
| Test force | Cn | 30 | 30 | 30 |
| Machine configuration | | Two-column table o | or stand design with internal or | external electronics |
| Measurement accuracy | | Better than +/- 0 | .5% read down to 1/1000th of | load cell capacity |
| Workspace | | | | |
| Width of the working area (D) | mm | 650 | 650 | 650 |
| Test area height–lower (E1) | mm | 1100 | 1700 | 2300 |
| Test Compartment Height - Upper (E2) 1 | mm | 1110 | 1710 | 2310 |
| Trial frame – tabletop version | | | | |
| Machine height – benchtop version (A) | mm | 1530 | 2130 | 2730 |
| Machine width with integrated electronics (B) – MI version – desktop version | mm | 1327 | 1327 | 1327 |
| Machine width with external electronics (B) – MO ² version | mm | 1456 | 1456 | 1456 |
| Machine depth - benchtop version (C) | mm | 663 | 663 | 663 |
| Trial frame – rack version | | | | |
| Machine height – rack version (A) | mm | 1760 2110 | 2160-2710 | 2960 3310 |
| Machine width with integrated electronics (B) – MI version – stand version | mm | 1350 | 1350 | 1350 |
| Machine width with external electronics (B) – MO ² version | mm | 1479 | 1479 | 1479 |
| Machine depth - rack version (C) | | 900 | 900 | 900 |
| Electric drive | | | | |
| Crossbar speed – min | mm/min | 0,0005 | 0,0005 | 0,0005 |
| Crossbar speed – max³ | mm/min | 2000 | 2000 | 2000 |
| Crossbar speed – return³ | mm/min | 2000 | 2000 | 2000 |
| Precision speed control | % | +/- 0,03 | +/- 0,03 | +/- 0,03 |
| Position repeatability | μm | ±1,5 | ±1,5 | ±1,5 |
| Machine drive differentiation | nm | 0,047875 | 0,047875 | 0,047875 |
| Cycle time | Hz | 2500 | 2500 | 2500 |
| Engine type | | AC servo motor with high torque thanks to special winding | | |
| Feedback Position Measurement | | 21-bit absolute magnetic encoder with a resolution of min 2,097,152 imp, HIPERF | | |
| Controller | | Fully digital, pulse frequency 4MHz, communication interface EtherCAT, CAN ope | | |
| Electrical connection | | | | |
| Supply voltage/frequency | V / Hz | | 115 or 230/50-60/1 phase | |
| Machine power consumption | Kva | 1,5 | 1,5 | 1,5 |
| Other parameters | | , | | |
| The basic weight of the machine without | medical | 1220 | 237 | 253 |
| Machine noise at V max ⁴ | dB | 67 | 67 | 67 |
| Color combination | RAL | | 1015,5015 | |
| PC interface | | | USB, Ethernet | |
| Environmental conditions | | | , | |
| Working Environment Temperature | °C | | +10+35 | |
| Humidity of the working environment | % | | <90 | |

¹ The upper working space is not in the foundation of the testing machine (as, accessory)
² Measuring and control electronics are located on a swivel joint
³ If a protective cover is not included in the testing machine, the return test speed is limited in accordance with EN ISO 12100 and EN ISO 14120
⁴ The measurement of machine noise is in accordance with the CSN EN ISO 3745 standard - Acoustics - Determination of sound power levels ...

⁵ More information on page 12



Specification of testing machines LabTest 6.30.1.xx – D1350 mm

| Ratings | Units | LabTest 6.30.1.12 |
|--|--------|--|
| Product code | | 1.05040824 |
| Test force | Cn | 30 |
| Machine configuration | | Two-column table or stand design with internal or external electronics |
| Measurement accuracy | | Better than +/- 0.5% read down to 1/1000th of load cell capacity |
| Workspace | | |
| Width of the working area (D) | mm | 1350 |
| Test area height–lower (E1) | mm | 1100 |
| Test Compartment Height - Upper (E2) 1 | mm | 1110 |
| Trial frame – rack version | | |
| Machine height – rack version (A) | mm | 11701520 |
| Machine width with integrated electronics (B) – MI version – stand version | mm | 1919 |
| Machine width with external electronics (B) – MO ² version | mm | 2045 |
| Machine depth - rack version (C) | | 900 |
| Electric drive | | |
| Crossbar speed – min | mm/min | 0,0005 |
| Crossbar speed – max³ | mm/min | 2000 |
| Crossbar speed – return³ | mm/min | 2000 |
| Precision speed control | % | +/- 0,03 |
| Position repeatability | μm | ±1.5 |
| Machine drive differentiation | Nm | 0,047875 |
| Cycle time | Hz | 2500 |
| Engine type | | AC servo motor with high torque thanks to special winding |
| Feedback Position Measurement | | 21-bit absolute magnetic encoder with a resolution of min 2,097,152 imp, HIPERFACE |
| Controller | | Fully digital, pulse frequency 4MHz, communication interface EtherCAT, CAN open |
| Electrical connection | | |
| Supply voltage/frequency | V/Hz | 115 or 230/50-60/1 phase |
| Machine power consumption | Kva | 1,5 |
| Other parameters | | |
| The basic weight of the machine without | Kg | 426 |
| Machine noise at V max⁴ | dB | 67 |
| Color combination | RAL | 1015, 5015 |
| Interface to PC ⁵ | | USB, Ethernet |
| Environmental conditions | | |
| Working Environment Temperature | °C | +10 +35 |
| Humidity of the working environment | % | <90 |

¹The upper working space is not in the foundation of the testing machine (as, accessory) ² Measuring and control electronics are located on a swivel joint

³ If a protective cover is not included in the testing machine, the return test speed is limited in accordance with EN ISO 12100 and EN ISO 14120 ⁴ The measurement of machine noise is in accordance with the ČSN EN ISO 3745 standard - Acoustics - Determination of sound power levels ... ⁵ More information on page 12



Version types of LabTest testing machines 6.10 to 6.30.1.xx

Type 6.10 to 6.30.1.xx – SV stand version

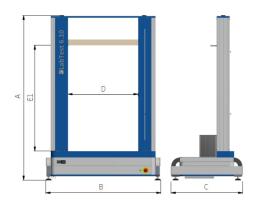
MI version – electronics in the machine

4 standard heights of test spaces



Type 6.10 to 6.30.1.xx - desktop version DV

MI version – electronics in the machine 4 standard heights of test spaces



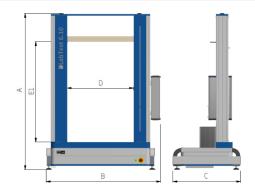
Type 6.10 to 6.30.1.xx – SV stand version

MO version – electronics separately on the machine 4 standard heights of test spaces



Type 6.10 to 6.30.1.xx – desktop version DV

MO version - electronics separately on the machine 4 standard heights of test spaces



Various customer variants

We offer more than 50 customer variants as standard We also deliver customized customer applications





Electronics of LabTest series machines

| Ratings | Units | Parameters |
|---|------------|---|
| Electronics for static applications and low cycle fatigue | : | EDCi20x (2.001030117) |
| Number of external slots (expandable to 16) | | 3 |
| Speed of data communication with a PC | Khz | 2,5 |
| Maximum test frequency of the machine | Hz | 5 |
| Electronics for static and dynamic applications | | EDCi70x (2.001050117) |
| Number of external slots (expandable to 16) | | 8 |
| Speed of data communication with a PC | Khz | 10 |
| Maximum test frequency of the machine | Hz | 300 |
| Other common parameters | | |
| Real-time channel synchronization | | YES |
| Bit accuracy of internal controller | bit | 64 |
| Control loop speed | Khz | 2,5 |
| Adjustable system time | μs | 400/500/600 1000 |
| Internal processing of measured analog quantities | bit | 32 |
| Calculated Resolution – Tension/Compression | bit | 21 |
| Effective resolution in tension / compression at the | Tick marks | ± 1,000,000 (100ms) |
| Standard resolution in tension / compression | Tick marks | ± 250,000 (20ms) |
| Speed of reading of measured analog quantities | Khz | 20 |
| PC interface | | USB 3.0, Ethernet 10/100 Mbit |
| Measurement accuracy class | | 0.5/1, depending on load cell, calibration of load cells in accordance with EN ISO 7500-1, ASTM E4-21 |
| Linearization of tension/compression sensors | | YES |
| Automatic sensor identification | | YES |
| Detection and LOG of exceeding the max. force F of | | YES |
| Zero Force Correction | | YES – automatically |
| Possibility to connect these input channels and | | iDCA – Strain Gauges Multi Analog ICs Digital ICs Analogue ± 10 V |
| | | iCFA – LVDT and 10 V analogue ± strain gauges |
| | | iINC – two incremental (A/B/R) or SSI interfaces |
| | | iADA – four analog outputs and four analog inputs (+/- 10 V) |
| | | iIO - 24 V DC IO (8 outputs, 8 inputs) |
| | | iINCX – two incremental interfaces (A/B/R) with RS485 to MFX |
| Possibility to connect a remote control of the | | YES |
| Types of remote control | | RMCi6, RMCi7, RMCi10, Wireless Control LTW023 |
| ECO mode | | YES |
| E-Stop by | | ČSN EN ISO 13850 with monitoring |
| CE conformity | | pursuant to the Machinery Directive 2006/42/EC and 2023/1230 |
| Electrical connection | | |
| Supply voltage/frequency - external electronics - | V/Hz | 115 or 230/50-60/1 phase |
| Supply voltage/frequency - internal electronics - MI | V/DC | 24 |
| Other parameters | | |
| Basic dimensions of external electronics – MO | mm | 99 x 463 x 244 |
| Color combination of external electronics – MO | L | Alu, graphite grey |
| Environmental conditions | | |
| Working Environment Temperature | °C | +10 +35 |
| Humidity of the working environment | % | <90 |
| | | |



The elements that characterize us...

We offer everything from development to implementation and listen to your needs...



Warranty and post-warranty service

From the moment our machines are delivered, our commitment does not end. We pride ourselves on standing behind our products and customers even after they leave our company. In order to ensure maximum satisfaction and peace of mind with our devices, we provide a complete online warranty and post-warranty service. Thanks to our dedicated team of experts, we are here to provide you with the best possible support throughout the entire lifecycle of our products. With our online warranty and post-warranty service, you are safe, aware of our support whenever you need it.



Ecological approach

We are proud to be a company that not only develops and manufactures quality testing machines and equipment, but also takes the environment seriously. For us, ecology is not just a phrase, but an essential aspect of our business. We are committed to minimal environmental impact and sustainable working practices. Our commitment to the environment does not end with the possession of the ISO 14001:2016 certificate. We believe that every step towards sustainability is crucial for the future of our planet.



Simple operation

In the company, our company emphasizes quality training and training for the operation of our machines. We believe that expertise and ease of use are key factors in achieving optimal results and customer satisfaction. When developing our devices, we focus not only on performance and innovation, but also on ease of use. This allows for quick adaptation and efficient work even for less experienced users. We are here to ensure that our technologies are not only powerful, but also easy to use for all users.



Reliability, accuracy and repeatability of measurements

With LabTest test machines, accuracy and repeatability of force and displacement measurements are our top priority. We have combined these key aspects with high dynamics of electronics to guarantee a more affordable and efficient way to set up our devices. Thanks to the innovative approach to electronics in our testing machines, we have achieved excellent accuracy and repeatability in the testing process. The reliability of our equipment is important not only for research and development, but also for industrial and testing applications.



Versatility and versatility

Our LabTest testing machines have a double advantage: versatility and intuitive operation, which brings efficiency during the tests themselves. By combining our high-quality testing machines with highly functional accessories, we offer versatility for a wide range of testing needs. This flexibility allows our customers to perform different types of tests and measurements with one device, which is an economic and practical benefit. Thanks to these features, you can rely on precise results and trouble-free operation in everyday practice.



Safety at the highest level

We strongly promote safety at the highest level in accordance with the latest directives 2006/42/EC and 2023/1230 and industry standards such as IEC 60947. Every product we create is the result of many years of experience, research and experimentation in the field of mechanical testing of materials. Our compliance with standards is documented by the EC and EU Declaration of Conformity, which is why we leave nothing to chance.



Mechanical resistance and maintenance-free operation

When developing products, we emphasize that LabTest machines have robustness, rigidity, long service life, mechanical resistance and maintenance-free operation – these are our key priorities. Our offer includes professional engineering and consulting services, which harmoniously blend in the design of systems and the implementation of the tests themselves.



LABORTECH, s.r.o. Labor Tech Rolnicka 130 a, 747 05 OPAVA, Czech Republic Phone: +420 553 668 648, E-mail: info@labortech.cz

www.labortech.cz