

Product Information

Electromechanical Testing Machines LabTest 6.0051 - 6.051

Machine use

Electromechanical universal testing machines of the series 6.xxx.1 with new design are intended for mechanical tests in tensile, compression and bending during loading of specimens or whole products. One-column bench top design with maximum capacity 5 kN is produced with different test area heights from 650 to 1500 mm.

Machine description and main advantages

- The testing machine is equipped with a ball screw with preload and a linear guide, which allows partial out off-axis loading of specimens.
- Robustness of the frame ensures high rigidity, durability and resistance against vibration and mechanical damage.
- Machine ergonomic design and 3 sides open test space allow easy manipulation with specimens and accessories.
- AC servo drive and belt drive with low noise level ensures low maintenance claims of the machine during tensile and compression testing.
- Ability to manage the machine speed in the range of 0.0005 to 3000 mm/min, short-term overload of load cell much as 100%.
- 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 **1 kHz** and high resolution of AD converters **24 bit**, the measuring electronics allows very accurate testing in a large measuring range of the loading cell without any retrofitting of the machine with another sensor.
- High operator comfort and customization tools for specific customer requirements, such as special protective covers, different speeds, different types of special grips, adjustments of X-head travel for custom tools etc.
- Ability to control the machine with a remote control RMC 6 with one button via PC or tablet.
- Connection to PC via ETHERNET or USB port.

Software Test & Motion® Features

- 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 imaging of all channels
- Extensive statistics of results
- Saving of results data in ASCII format, SQL and Excel file
- Transferring data from other devices like touch thickness gauge, scales, 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

The base machine includes:

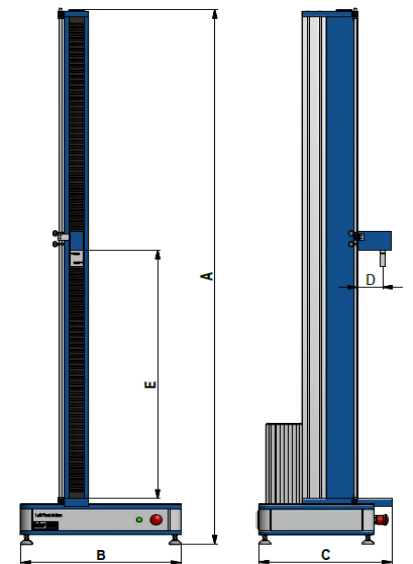
- A machine frame including electronics EDC 220
- Bench top design
- "S" series load cell for tension/pressure at full loading EN ISO 7500-1, ASTM E4
- Preparation for remote control RMC6 holder



Supplements and Accessories

- Wide range of grips, compression and bending tools
- Extensometers (mechanical, contactless)
- Special temperature chambers
- Pneumatic aggregate for grips control

Technical data	Units	6.0051.1.1		6.0051.1.2		6.0051.1.3		6.031.1.1		6.031.1.2		6.031.1.3		6.051.1.1		
Load capacity	kN	0,5			3			5								
Number of columns		1														
Number of ball lead screws		1														
Number of linear guides		1+2														
Minimum testing speed	mm/min	0,0005			0,0005			0,0005						0,0005		
Maximum testing speed	mm/min	3000			1200			600								
Travel resolution	μm	0,142			0,066			0,026								
Repeatability of X-head travel	μm	±2			±1			±1								
Weight ¹	kg	60	65	70	62	68	74	68								
Dimensions																
Height of the Machine (A)	mm	1024	1484	1874	1024	1484	1874	1024								
Width of the Machine (B)	mm	531	531	531	531	531	531	531								
Depth of the Machine (C)	mm	442	442	442	442	442	442	442								
Width of test space (D)	mm	83			83			83								
Height of test space (E)	mm	650	1100	1500	650	1110	1500	650								
Environmental conditions																
Operating temperature	°C	10 to 35														
Storage temperature	°C	-35 to 55														
Humidity range	%	< 90														
Noise level ²	dB	< 58														
Electrical connection																
Supply voltage	V	230 ... 240 / 50-60Hz														
Fuse	A	16														
Power Rating	kVA	0,370														

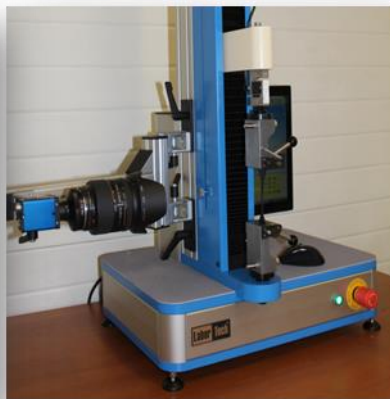


¹Without accessories

Technical changes are

reserved by manufacturer

²Measured at 1 m distance from testing machine without loading



Manufacturer:

LABORTECH s.r.o., Rolnická 130a, 747 05 Opava, Czech republic. Tel.: +420 553 731 956, +420 553 775 327
Mob.: +420 602 527 646. +420 731 656 723. info@labortech.cz. www.labortech.cz. Czech republic

Ver. 1.0 - 2018

