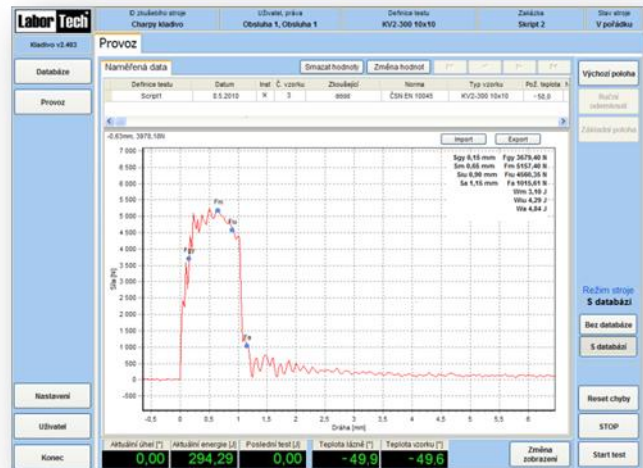
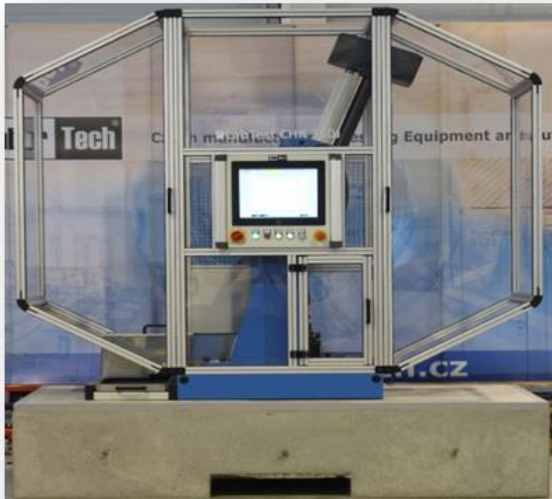


## Product information

### Pendulum Impact Tester LabTest® CHK 750J-IA



#### Description and use

Pendulum impact testers type Lab Test CHK 750J-IA for impact tests are among the devices where short time tests that give us important information are performed and, above all, they record the **graphic process** with automatic calculation of parameters depending on the behaviour of materials at the impact of the ram on the specimen **in changing temperatures**. On pendulum impact testers CHK series, it is possible to perform tests according to Charpy, Izod, Dynstat, Brugger and also perform impact tensile tests according to all standard EN, ASTM, ISO, DIN.

#### Base machine set

- Very rigid base construction with 4 levelling holes
- Automatic lift arm using a special magnetic bevel-helical gear unit with integrated AC motor controlled by inverter with electronic brake
- Documentation for a concrete stand construction
- Protective safety cover from the Item profiles and polycarbonate glass with electronic door monitoring
- Integrated touch LCD screen with PC in the machine frame
- Digital control unit with high-speed card – 12 MHz
- Intuitive and efficient software ImpactTest BASIS – I for measuring according to EN ISO 14556
- Incremental sensor with high resolution for accurate angle measuring
- Preparation for use of various testing supports and blades
- Tunnel for automatic removal of broken specimens with high efficiency up to 95%
- Preparation for a reclaiming box designed for collecting broken specimens for further use (chemical analysis etc.)

#### Features and operation

- Very rigid machine design ensures accurate test results
- High safety according EN 954-1, Class 3
- Continuous monitoring of safety during hammer impact
- Detection of operation errors and their displaying in the program
- Allows to start the pendulum both by the button and immediately after closing the door within 0.5 seconds, which allows breaking the specimen within 5 seconds after removal from the cooling medium according to EN ISO 148-1 and ASTM E 23
- Easy to mount specimens, possibility for fast exchange of supports and the pendulum in the range from 150 to 750J, ensures simple and comfortable operation for the user even in harsh industrial environments
- Centrally located control units ensure easy control and testing
- Easy loading of specimens
- Automatic arm brake
- Automatic arm lift in 5 seconds
- Very quick speed of testing
- Fast and accurate centring of specimens
- Protective cover with security lock ensures entirely safe operation
- High toughness of the frame and resistance against shocks
- Possibility of data output via Ethernet or USB flash disk
- Ideal ergonomic design
- The device meets all necessary safety requirements such as EN356, DIN 51 333, EN ISO 13489 and other European norms

## Features of Software ImpactTest® - FULL

**Impact Test** is an integral part of Charpy hammers LabTest CHK supplied by LABORTECH. This software will help increase productivity and quality testing at your test facilities and test laboratories. You can streamline, clarify and accelerate the implementation of your tests and to adapt their testing environment so as to make measurement of mechanical properties of materials by methods of impact toughness easy for the operators, regardless of their skills.

- Simple, inductive, efficient
- Intuitive control via touch screen LCD
- Quick and efficient testing
- Modification of item names
- Modification of measured instrumentation values
- Evaluation of instrumented tensile test
- Editable types of specimens and testing standards
- Digital display of all current values
- Change views between the graphs and measured results
- Choice of graph display change between force, trajectory and time
- Automatic evaluation of temperature
- Data export into CSV – BASIS, or MY SQL and MS SQL
- Data export of graphic courses into CSV – individual samples
- Data transfer from temperature chamber, thermometer...
- Automatic temperature evaluation before testing acc. EN ISO 148-1 and ASTM E23
- Stores measured data in a database with filtration
- Extensive calibration mode
- Calibration of individual instrumented blades EN a ASTM
- Dynamic linearization for testing according to ASTM
- Course of linearization of instrumented blades
- Multilanguage version (English, Russian, Polish etc.)
- Protocol printing in PDF
- Record of multiple curves, zooming using the ZOOM - detection of x, y coordinates of the individual samples, etc.

## Module - ImpactTest – IA

Impact Test - IA is a software module that was developed for instrumented impact strength test according EN ISO 14556 with possibility of setting an initial position of the ram depending on the desired energy, speed or angle. Controlling of the default angle by AC servomotor with accuracy to 0.05 ° and a special magnetic coupling gives Charpy hammers of CHK series LabTest IA unprecedented opportunities to perform tests of impact toughness associated with development of new materials. A part of this module compared to the Basis + I are the following items:

- Change of graph displaying and measured results
- Record of multiple curves, zooming using the ZOOM - detection of x, y coordinates of the individual samples etc.
- Selection of chart display between force, direction and time
- Dynamic linearization for testing according to ASTM
- Course of linearization of instrumented blades
- Calibration of individual instrumented blades EN a ASTM
- Modification of measured instrumentation values
- Data export of graphic courses into CSV – individual samples
- Evaluation of instrumented tensile test
- Setting an initial angle in range 15 to 100% NEHR
- Setting initial energy in range 7 to 100% NEHR
- Setting impact speed in range 3 to 100% NEHR
- Calibration of adjustable angle
- Optimization of AC control settings

### Accessories

Note: NEHR = nominal energy of the hammer ram

- Central and lateral centring device
- Cooling chambers, thermometers, trays for specimens
- Robotic system **BLUE RUNNER**
- High speed cameras **BLUE EYE**
- Optical check of specimen dimension **OptoLab55**
- **VRE** – notching machine for V and U specimen
- Calibration by reference specimens

Technical data	Units	LabTest CHK 750-IA
Maximal working range	J	750
Resolution of the scale range in PC	J	0,1
Resolution error	J	± 0,05
Settings of the initial angle in range:	%	15 to 100*
Settings of the initial energy in range:	%	7 to 100*
Settings of the impact speed in range:	%	3 to 100*
Temperature of the work environment:	°C	10-35
Temperature of the work environment:	%	20-70
Weight	kg	1970
Machine dimensions HxWxD	mm	2226x2490x991
Voltage	V	230V 50/60 Hz
Power Input	VA	750

Technical changes are reserved by the manufacturer

### Manufacturer:

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