

## Product information

# Pendulum Impact Tester LabTest® CHK 50J



Číslo testu	Čas	Č. vzorku	Značení	Norma	Typ vzorku	Průřezová plocha
Test č. 2	19.8.2011 18:25:56	2	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 20:28:22	3	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 20:29:12	3	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 20:29:56	4	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 20:30:13	5	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 20:30:44	5	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 20:31:04	7	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 20:32:06	9	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 20:32:32	9	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 20:33:51	10	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 20:34:20	11	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 20:34:44	12	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 20:35:29	13	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 20:36:09	14	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	19.8.2011 18:43:00	15	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 21:04:15	16	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 21:05:11	17	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 21:10:38	18	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 21:10:59	19	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 21:11:39	20	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 21:11:51	21	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 21:13:58	22	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 21:14:10	23	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 21:26:20	24	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 21:26:33	25	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 21:26:51	26	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 21:26:38	27	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0
Test č. 2	28.8.2011 21:26:01	28	Labotech	ČSN EN ISO 148-1	HUS-450 15x10	35,0

### Description and use of equipment

Pendulum Impact Tester LabTest CHK is used in quality control of production, input and output controls of material and products in testing laboratories.

This equipment is used to determine carried out work or energy that is consumed within violation of a test bar. The test is going under way by one stroke, when sufficient amount of energy is used on the violation of the specimen. This energy should be in the range of 10% to 80% of the beam nominal energy. It is suitable for test methods: Charpy, Izod, Dynstat, Brugger and determination of impact resistance in tension. The hammer can be fitted with blades and supports for tests according to the following standards: EN ISO 179, 180, 13802, 9854, 8256, 148 and ASTM, D6110, D256, D1822, E23

Equipment is eligible for use in quality systems ISO 9001:2009.

### Basic machine set

- Solid construction base with 4 leveling gaps
- Special work table with leveling pads, container and massive base platform
- Protective safety cover from the Item profiles and plexiglass
- Integrated LCD touch monitor
- Integrated PC
- Intuitive IMPACTTest software
- Hammer incremental angle sensor
- Centering device in the hammer's support
- Documentation and calibration certificate according to EN ISO 13802
- A tunnel for broken specimen extraction

### Features and Functions

- Very solid construction of the machine
- High safety according to EN 954-1, Category 3
- Running safety control during hammer impact
- Detection of operating errors and theirs display in the program
- Allows hammer to start by pushing the button and immediately after closing the door
- Centrally located control components provide easy operation and testing
- Easy download of samples
- Digital operating control with touch screen LCD monitor
- Automatic arm brake
- Automatic arm lift in 5 seconds
- High speed testing
- Fast and precise sample centering
- Protective cover for completely safe operation
- High machine frame rigidity and shock resistance
- Extremely accurate rotary sensor
- Option of the data output via USB or Ethernet interface
- Ergonomic design
- Device meets all the necessary safety requirements like DIN 51 333, EN ISO 13489 and other European standards
- Electronic system includes a sensor with high resolution for accurate measurement of the angle
- Online service via LabWeb Service

## Software IMPACTTest® description

Our new ImpactTest Testing Software has been developed in a modular way that meets all the set criteria. Our ImpactTest - BASIS contains the parameters that are necessary to determine the impact strength and impact strength, the results database with the possibility of filtering individual items, the definition of tests with the ability to write input data at your discretion, etc. ImpactTest is a complete impact strength measurement software that supports the CSN , DIN, EN, ISO, ASTM, GOST standards and other industry standard test methods. Part of the program is machine control, test record, database of measured values and subsequent data filtering. The program uses MS Windows 7 and higher. The application is designed not only for classic PC and LCD monitors, but for industrial systems that are controlled by touch LCD monitors.

## Software IMPACTTest® features

- Simple, inductive and powerful
- Intuitive operation via touchscreen LCD
- Fast and rational testing
- Item name changes
- Editable sample types and test standards
- Digital display of all current values
- Automatic temperature evaluation
- Export data to CSV - BASIS, or to MY SQL and MS SQL
- Data transfer from the temperature chamber, thermometer,
- Automatic temperature evaluation prior to EN test  
ISO 148-1 and ASTM E23.
- Storing measured data into a database with the possibility of filtering
- Extensive calibration mode
- Multi-language version (Czech, English, Polish, Russian, etc.)
- Print a PDF report
- Recording multiple curves, zooming with ZOOM - detecting x, y coordinates for individual samples, etc.

## Accessories

- Replaceable blades and struts
- Temperature and cooling chambers from 400°C to -196°C
- Containers for samples according to standard
- Robotic centers with automatic loading of samples
- Step-less adjustable angular descent of pendulum in the range of 0,15 to 160°
- Testing automation
- Instrumentation according to EN ISO 179-2, data acquisition rate up to 12 MHz
- Visual inspection of samples (notches)
- Settings of various initial angle and speed of the hammer in the range 0,1 to 3,8 m/sec
- Interchangeable hammer  
Charpy test 0,5; 1; 2; 4; 5; 7,5; 15; 25; 50J  
Izod test 2,75; 5,5; 11;22J
- Device for samples notching
- Thermometer

Technical data	Units	LabTest CHK50J
Maximum operating range	J	50
Resolution scale division on the PC	J	0,1
Error resolution	J	+/- 0,05
Impact speed	m/s	(2,9-5 J) 3,8
Test speed	sample/s	<15
Temperature of environment	°C	10-35
Humidity of environment	%	20-70
Weight	kg	90
Machine dimensions HxWxD without a table	mm	1200x1200x545
Voltage	V	230V 50/60 Hz
Power input	VA	200

## Manufacturer:

**LABORTECH s.r.o.**, Rolnická 130a, 747 05 Opava, Česká republika, Tel.: +420 553 731 956,  
Mob.: +420 731 656 723, Fax: +420 553 731 748, info@labortech.cz , www.labortech.cz, www.labortech.eu

