

## Product information

### Pendulum Impact Tester LabTest® CHK 50J



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

#### 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

#### Features and Functions

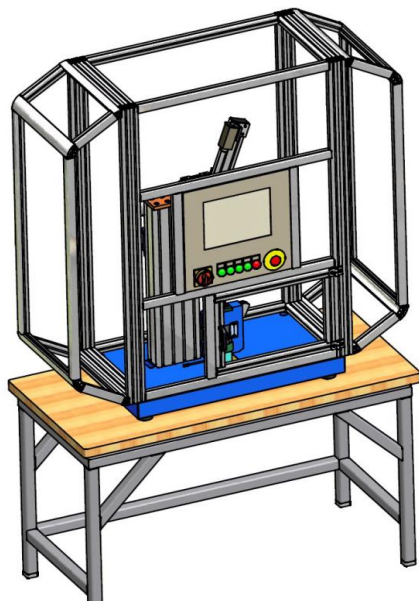
- Solid construction of the machine
- High safety according to EN 954-1, Category 3
- Running safety control during hammer impact
- Detection of operating errors and theirs display in the program
- Allows hammer to start by pushing the button and immediately after closing the door
- Centrally located 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

This new software allows processing of the results of instrumented impact test. Application IMPACTTest is intended not only for conventional PCs and LCD monitors, but also for industrial systems that are controlled by touch LCD monitors. All impacted notches are stored in a central database. This database contains basic statistical methods and results filtering by order number, date of testing temperature, testing standards, instrumentation, etc. The software IMPACTTest is destined for serial measurement of impact strength.

## Software IMPACTTest® features

- Professionally designed library of test methods
- Automatic evaluation of instrumented tests - optional
- Adaptation for Touch Screen monitors
- Automatic storage of results
- Database of results
- Statistical functions
- Export to SQL format or CVS, Excel 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

## Pendulum Impact Tester accessories

Description	Order number
Interchangeable Hammer Charpy xxJ	1.CHK.50.xxJ
Interchangeable Hammer Izod xxJ	1.CHK.50.I.xxJ
Instrumented blade according to EN ISO 179-2	1.CHK.50.EN-I
Temperature chamber -90°C - +200°C	1.FP89-ME
Optical evaluation of the samples using the CCD camera	1.OptoLab55
Digital thermometer including sensor -200°C + 400°C	1.GMH3210
The calibration reference specimens by ASTM standards	1.SPEC.NIST
Possibility of setting different default angle and speed of the Hammer in the range 0,1 to 3,8 m/sec	1.CHK50J.A
Robotic workplace	On request

Technical changes are reserved by manufacturer

## Manufacturer:

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