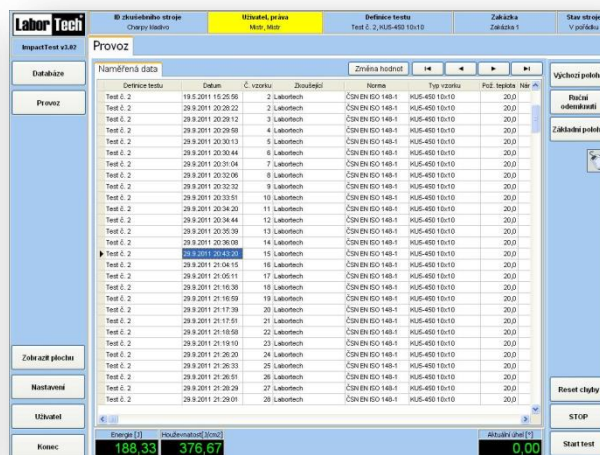


Product information

Pendulum Impact Tester LabTest[®] CHK 150J-750J

Název testu	Datum	Č. vzorku	Zkoušející	Norma	Typ vzorku	Pod. teplota	Vel. nárazu
Test č. 2	29.8.2011 15:25:58	2	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 20:28:22	2	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 20:28:12	3	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 20:28:09	4	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 20:28:13	5	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 20:28:44	6	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 20:31:04	7	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 20:32:08	8	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 20:32:30	9	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 20:33:51	10	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 20:34:20	11	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 20:34:44	12	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 20:35:39	13	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 20:36:08	14	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 21:04:15	15	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 21:04:15	16	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 21:05:11	17	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 21:16:36	18	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 21:16:59	19	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 21:17:39	20	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 21:17:51	21	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 21:18:58	22	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 21:19:10	23	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 21:26:20	24	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 21:26:33	25	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 21:26:51	26	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 21:28:29	27	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	
Test č. 2	29.8.2011 21:29:01	28	LaborTech	ČSN EN ISO 148-1	KUS-450 15x10	20,0	

Description and use of the equipment

Pendulum Impact Testers of the type LabTest CHK are used for quality control of production, input and output controls of material and products in testing rooms and laboratories.

It is used to determine impact work, which is a standard of material resistance against impact tensile tests, wedge impact tests and impact strength waveform according to DIN, EN, ASTM, ISO standards. Size of impact work depends on many factors, such as deformation speed, concentration and tension nature in the test bar (Charpy notch shape, size and shape of the specimen), temperature, structure and state of internal tension. Therefore, the test conditions are during normal, reduced or increased temperature set by standards: ČSN EN ISO 148-1 a ASTM E23.

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

Basic machine set

- Rigid base construction with 4 leveling holes
- Concrete base exceeding forty times the weight of Pendulum Impact Tester
- Protective safety cover from the Item profiles and Plexiglass
- Integrated LCD touch screen
- Intuitive IMPACTTest software
- incremental sensor to detect actual angle
- Centering device
- Tunnel for automatic taking of samples

Features and function

- Rigid base construction of the machine
- High level of safety according to EN 954-1, Category 3
- Running security control during impact of the Pendulum Impact Tester
- Detection of operating errors and their display in the program
- Allows hammer to start by pushing the button and immediately after closing the door in 0,5 second, which is important because the sample must be impacted within 5 seconds after removal from cooling chamber
- Testing in accordance with ISO 148 and ASTM E 23
- 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 samples centering
- Protective cover for completely safe operation
- High machine frame rigidity and shock resistance
- Extremely accurate rotary sensor
- Possibility 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

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

- Interactive Control Panel
- Replaceable blades and struts
- Temperature and cooling chambers from 400°C to -196°C
- Containers for samples according to EN ISO 148-1
- Robotic centers with automatic loading of samples
- High-speed cameras
- Testing automation
- Instrumentation according to EN ISO 14556
- Visual inspection of samples (notches)
- Settings of various initial angle and speed of the hammer in the range 3.7 to 5.5 m/sec
- Interchangeable hammer 150J, 300J, 450J
- Device for samples notching
- Thermometer

Technical data	Units	LabTest CHK 300 J	LabTest CHK 450 J	LabTest CHK 750 J
Maximum operating range	J	300	450	750
Resolution scale division on the PC	J	0,1	0,1	0,1
Error resolution	J	+/- 0,05	+/- 0,05	+/- 0,05
Impact speed	m/s	5,5	5,5	5,5
Test speed	s/sample	<15	<15	<15
Sample rate	kHz	250	250	250
Temperature of environment	°C	10-35	10-35	10-35
Humidity of environment	%	20-70	20-70	20-70
Weight of test equipment	kg	1100	1500	1950
Dimensions of machine HxWxD	mm	2085x2284x510	2085x2284x510	2085x2284x510
Voltage	V	230V 50/60 Hz	230V 50/60 Hz	230V 50/60 Hz
Power input	kVA	0,6	0,6	0,7

Pendulum Impact Tester's accessories

Description	Order number
Interchangeable Hammer 150J	11.CHK.150Z
Interchangeable Hammer 300J	11.CHK.300Z
Interchangeable Hammer 450J	11.CHK.450Z
Temperature chamber -90°C to +100°C	12.FP89-ME
Optical evaluation of the samples using the CCD camera	11.KRV.1.CSS
Digital thermometer including sensor -200°C + 400°C	11.GMH3210
The calibration reference samples for ASTM standards	12.SPEC.NIST
Possibility of setting different default angle and speed of the Pendulum in the range 3,7 to 5,5 m/sec	12.CHK.xxx.44
Robotic workplace	On request