

## function

The SCITEQ Charpy pendulum impact tester is used to conduct resilience tests on rigid plastic materials in order to determine their impact fragility characteristics under standard stress conditions. The test method conforms to ISO 179 - Part 1 (non-instrumented impact test).

## highlights

high accuracy tool

easy and convenient operation

steel construction

high quality components

high safety level

version 01/2019

## features

The SCITEQ Charpy pendulum impact tester is easy to operate with its simple and to-the-point menu structure. The test specimen can be cut by means of a copy milling machine.

The test specimen, supported near its ends as a horizontal beam, is impacted by a single blow of a striker, with the line of impact midway between the supports, and bent at a high, nominally constant, velocity.



We wish to give our partners the tools to produce to the highest standard, while helping them to produce as cost effectively as possible with Q.C. tools throughout the facto-

## construction

The SCITEQ Charpy pendulum impact tester has a frame made from steel and consists of a rotation shaft and a pendulum stop unit. In addition there is an anvil a level meter, a control panel, three feet and an eyebolt.

Further, a specimen support is supplied along with a centering device is supplied for notched Charpy specimens.

We offer two versions:

SCJ5 with a capacity of 0,50—5 Joule.

SCJ50 with a capacity of 0,50—50 Joule.

Both models have LCD display the absorbed energy in joules after test specimen impact will be shown. Recorded test results can be



Charpy pendulum hammer

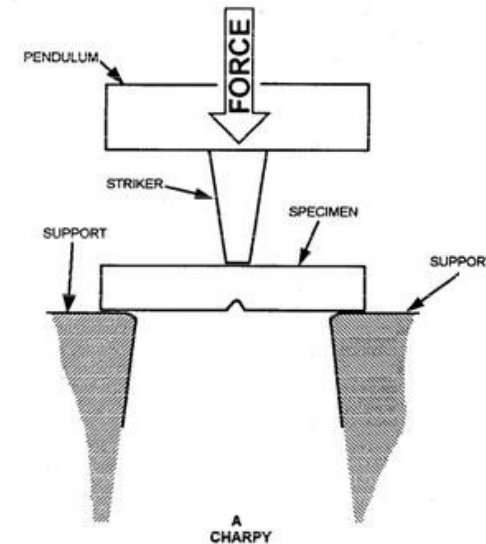
associated | equipment

▲ | essential equipment

copy milling machine

SCITEQ

	SCJ5	SCJ50
impact speed	2,9 m/s	3,8 m/s
impact energy	0,5J, 1J, 2J, 4J, 5J	7,5J, 15J, 25J, 50J
starting angle	115°	150°
measurement accuracy	±0.1%	±0.1%
resolution	±0,05%	±0,05%
Torque of striker	M0,5=0,267595 Nm M1=0,53590 Nm M2=1,07180 Nm M4=2,14359 Nm M5=2,67949	M7,5=4,01924 Nm M15=8,03848 Nm M25= 13,39746 Nm M50=26,79492 Nm
Distance between shaft and center of specimen	230 mm	395 mm
Corner radius of striking edge	(2.0±0.5) mm	(2.0±0.5) mm
Included angle of striking edge	(30±1)°	(30±1)°
Corner radius of vice	(1.0±0.1) mm	(1.0±0.1) mm
Support span	62 mm	62 mm
Energy loss	0.5J: -4%, 1.0J: -2%, 2J: -1%, 4.0J: -0,5%	0,5%
display	LCD	LCD
electrical supply	220-240V AC, 50-60Hz	220-240V AC, 50-60Hz
main dimensions (L x W x H)	420mm×250mm×650mm	420mm×250mm×650mm



Force applied by means of the Charpy testing method

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