

SCITEQ Izod pendulum



Function

The SCITEQ testing machine is mainly used to measure the impact toughness of non-metallic materials, such as hard plastics (including plates, pipes, plastic profiles), reinforced nylon, glass fiber reinforced plastics, ceramics, cast stone, electrical insulation materials, etc. The test method conforms to ISO 180. The SCITEQ Izod 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 and the LCD control panel.

Scope

A pendulum with specific weight is used to strike the specimen supported in a vertical cantilever beam. The sample is damaged by one-time impact with the pendulum. The energy absorbed by the specimen during impact is measured, and the impact strength calculated according to the original cross-sectional area of the sample. For notched specimens, the distance from the impact line to the center line of the notch is a fixed distance.

Specifications and terms

SCITEQ

Izod pendulum tester	Model 8010125 SIJ22
Max. energy:	22 Joule
Impact speed:	3,5m/s
Impact energy:	11.0J, 22.0J
Measurement accuracy:	±0.1%
Display resolution:	0.001j
Pendulum included:	11 Joule pendulum and weight to increase to 22 Joule.
Impact pendulum moment:	M11J=5.8949 N·m M22J=11.7898N·m
Pre lift angle of pendulum:	<0.5%
Strike center distance:	335 mm
Fillet radius of impact blade:	R=0.8±0.2mm
Distance from impact blade to upper jaw:	22±0.2mm
Software & data:	Transfer test data via USB (storage unit) to your PC to view data and generate test reports. Software is included (on USB stick).
Power supply:	220-240V AC, 50-60Hz
Dimension & weight	L1060mm×W336mm×H920mm. Weight: 150kg.



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