

Product Information

Pendulum Impact Tester HIT5P



Applicational area

The HIT5P is a space saving Pendulum Impact Tester for tests to Charpy and impact tensile methods. Its working range of up to 5 Joule fulfills testing requirements to Standards for many plastics.

This Pendulum Impact Tester can perform tests to the following Standards:

- Determination of impact strength to Charpy: ISO 179-1, DIN 50115
- Impact tensile tests to ISO 8256, Method A

The Pendulum Impact Tester HIT5P complies with the construction requirements of ISO 13802.

Advantages/characteristics

The HIT5P recognizes automatically, as do all Pendulum Impact Testers of this Series, which pendulum is being used according to method and available impact energy. This ensures that the installed pendulum is used in the calculation of the results and therefore, any possible confusion is eliminated.

Every pendulum is equipped with a quick-change unit which allows changing without tools. The use of lightweight double-rods made of carbon stiffens the pendulum in the direction of impact and concentrates the mass very well to the impact point. This minimizes possible natural oscillation losses of the pendulum.

- The natural oscillation losses of the pendulum are minimized by using double-rods made of carbon.
- The quick-change unit of the pendulums allows a fast changing without the use of tools.
- The automatic pendulum recognition is performed using individual pendulum coding which eliminates possible mistakes.
- The supports for the various methods are made with a dove-tail guidance so that they are securely fixed and easy to change.
- In Stand-Alone-Operation - without PC – impact energy can be determined. All calibration functions for bearing and air friction are always available.
- An RS232-Interface is available for connection to a LIMS.

With the connection of a PC to the USB-Interface, the evaluation of the data takes place with *testXpert*® II. That makes results evaluation more comfortable and more functions for protocol creation and data archiving are available.

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Technical data of the basic instruments

Dimensions	Weight	Angle of fall	Pendulum length	Impact velocity
680 x 404 x 685 mm	75 kg	135.72°	250 mm	v = 2.9 m/s

Basic instruments	Item number
PC-Model (Basic instrument with USB- and RS232-interface), incl. cable release unit	010917
Stand-Alone-Model (without PC connection), incl. cable release unit	010920

Operator protection (Optional, not required)

Description	Item number
Protection left	010924
Protection left and right, conform to CE and DIN 51233	010926

Accessories for tests to Charpy, ISO 179-1

Pendulum	0.5 J	1 J	2 J	4 J	5 J
Item number	010930	010932	010940	010941	010943

Support	Item number
Charpy support	010961
Local operator shield and notch alignment unit	014988
Side alignment unit	010965

Standard	Width	Adapter plate	Height	Support	Anvil	Span
ISO 179-1	10 mm	010945	4 mm	325730	010955	62 mm
	4 mm	010947	10 mm	325734	010955	62 mm
	15 mm	-	3 mm	325728	010958	22...70 mm
	10 mm	010945	3 mm	325728	010958	22...70 mm
	3 mm	010951	15 mm	325736	010958	22...70 mm
	3 mm	010951	10 mm	325734	010958	22...70 mm
DIN 50115	4 mm	010947	3 mm	325728	010958	22...70 mm

Accessories for impact tensile tests

Impact tensile support and yokes	Item number
Impact tensile support	010967
Yoke, 15 g mass, according to ISO 8256, method A	325684
Yoke, 30 g mass, according to ISO 8256, method A	325686

Standard	Specimen type	Clamping template	Clamping gage
ISO 8256 method A	Type 1	325672	325798 (Clamping gage can be used for all Standards)
	Type 2	325674	
	Type 3	325676	
	Type 4	325678	

Standard	Impact energy, pendulum	Item number
ISO 8256 method A	2 J	010968
	4 J	010970