

DIGITAL IZOD AND CHARPY COMBINED IMPACT TEST MACHINE

EI-CZ50T



(IZOD: 2.75J、5.5J、11J、22J; Charpy: 1J、2J、4J、5J、7.5J、15J、25J、50J)

ECO INSTRUMENT (NS0081046-M)

Product introduction

This instrument is a new multifunctional cantilever beam and simply supported beam integrated impact testing machine. It is easy to disassemble the fixture and sample holder. The cantilever beam and simply supported beam test methods are automatically switched. It is easy to use, simple to operate, and has high test accuracy. Mainly used for the determination of the impact toughness of non-metallic materials such as hard thermoplastic molding and extrusion materials, hard thermoset molding materials, and fiber-reinforced thermoset and thermoplastic composite materials.

Test standards

- ISO179—2000 Determination of impact strength of plastic-hard material simply supported beams.
- GB/T 21189 Inspection of pendulum impact tester for plastic simply supported beam, cantilever beam and tensile impact test.
- GB/T1043—2008 Impact test method for rigid plastic simply supported beam.
- JB/T8762—1998 Plastic simply supported beam impact testing machine.
- GB/T 18743-2002 The impact test method of simply supported beam of thermoplastic pipe for fluid transport (applicable to pipe fittings.).
- ISO180—2000 Plastics - Hard materials - Determination of IZOD impact strength.
- GB/T1843—2008 Rigid plastics - IZOD impact testing machine.
- JB/T8761—1998 Impact test machine for plastic IZOD.
- ASTM D256-2010 Test method for determining IZOD pendulum impact strength of plastics.

Features

- Cantilever beam and simply supported beam are integrated impact, just simply dismantle the clamp and sample holder
- High precision intelligent controller, equipped with liquid crystal display, can directly and accurately read the data
- Use high strength carbon fiber swing rod (Patent applied) , in the direction of impact, the rigidity of the material is improved, and the maximum impact quality is concentrated on the center of mass of the pendulum, so that the shock-free test is truly achieved and the service life is increased.
- Use imported high-resolution digital encoder, higher precision and more stable Angle test
- The impact hammer and imported ball bearings in line with the aerodynamic principle greatly reduce the friction loss caused by the machine
- Automatically calculate the final result, and 24 groups of test data can be saved and averaged
- Chinese and English operating interface can be selected, test results can be selected in J/m, KJ/m², kg-cm/cm, ft-ib/in and other units
- Built-in microprinter prints test data

215, Jalan S2 C9, Seksyen C, Green Technology Park, Seremban 2, 70300 Seremban. Negeri Sembilan. Malaysia.

Tel: +606-6030 951 Fax: +606-6030 952

Email: marketing@ecoinstrument.com.my

Website: <http://www.ecoinstrument.com.my>

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Specifications

Item		Digital display cantilever beam and simple supported beam combined impact testing machine
Model		EI-CZ50T
The pendulum energy	IZOD	2.75J、5.5J、11J、22J
	Charpy	1J、2J、4J、5J、7.5J、15J、25J、50J
Pendulum pre-evaluation angle		150°
Impact velocity	IZOD	3.5m/s
	Charpy	2.9m/s
Distance between Pendulum and the impact blade		335mm
Cantilever impact edge radius		R=0.8±0.2mm
Simply supported beam impact edge radius		R=2mm±0.5mm
Distance between impact blade to upper mouth		22mm±0.05mm
Impact angle		30°±1°
Power rate		240V 50HZ

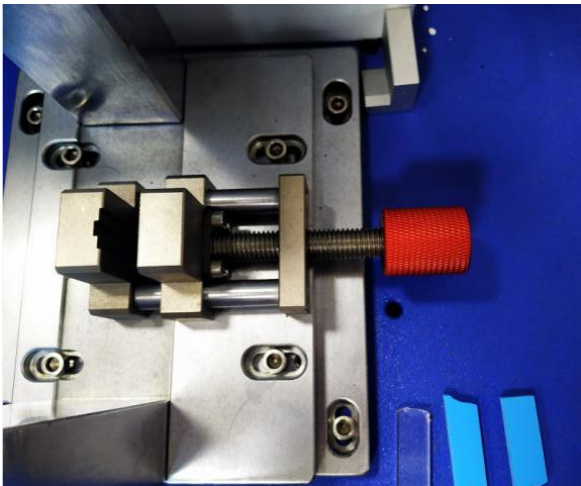
Accessories List:

Class	Name	Qty	Unit	Remark
Mainframe	Impact Tester	1	Set	
Accessory	2.75J Impact pendulum	1	Set	IZOD (1J Pendulum with energy, not used alone)
	5.5J Impact weight	1	Set	
	11J Impact weight	1	Set	
	22J Impact weight	1	Set	

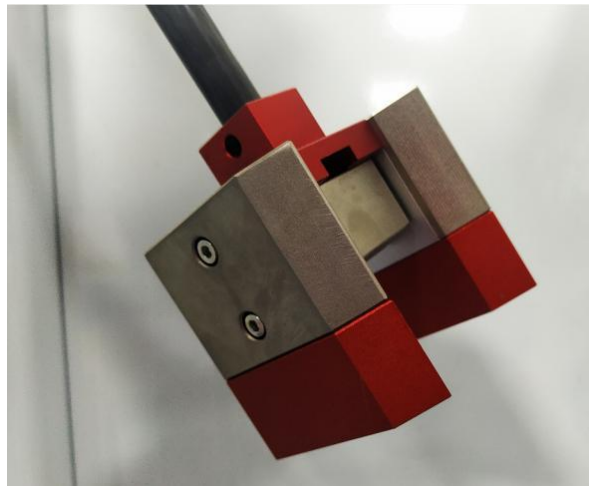
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	1J Impact pendulum	1	Set	Charpy
	2J 4J 5J Impact weight	3	Set	
	7.5J Impact pendulum	1	Set	
	15J Impact weight	1	Set	
	25J Impact pendulum	1	Set	
	50J Impact weight	1	Set	
	Wrench	1	Set	
	Printer	1	Set	Installed on the machine
	Thermal paper	10	Rolls	

More Images:



Sample Fixed fixture



Standard impact hammer

Control Panel Interface



1. Real-time angle, perspective changes with the pendulum swings
2. The maximum angle after impacting
3. Test energy loss of equipment
4. Current mode
5. Zero angle
6. Print a test result
7. To set the parameters as per user required
8. Average value of impact strength
9. Impact strength unit
10. Number
11. Every impact strength values
12. Switch impact modes between sample testing(load) and before sample testing(friction).
13. Page turning.

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Angle	Energy	KJ/m2	Data Group -1	
0	148.54	0.000J	0.009	No. 1 IZOD
1	148.54	0.000J	0.009	3.5 m/s 2.0 J
2	148.54	0.000J	0.009	Length 80.00 mm
3	0.00	0.000J	0.000	Width 8.00 mm
4	0.00	0.000J	0.000	Thick 4.00 mm
5	0.00	0.000J	0.000	2021-11-22 08:22:41
AVG	0.000J	0.009		
USB	2021-11-22	15:34:05	000	

System Setting Page

IZOD		CHARPY			中文
1.0 J	2.75 J	5.5 J	11.0 J	22.0 J	English
2.9m/s		3.5m/s	3.8m/s		
Sample Length		Sample Width		Sample Thick	
80.00 mm		8.00 mm		4.00 mm	
Record No.		Result Unit			
1		KJ/m ²			
USB		2021-11-05		12:34:37 000	

IZOD		CHARPY			中文
0.5 J	1.0 J	2.0 J	4.0 J	5.0 J	English
7.5 J	15.0 J	25.0 J	50.0 J		GB
2.9m/s		3.5m/s	3.8m/s		
Sample Length		Sample Width		Sample Thick	
80.00 mm		8.00 mm		4.00 mm	
Record No.		Result Unit			
1		KJ/m ²			
USB		2021-11-05		12:34:53 000	

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Optional Computer Software

