

Digital Izod and Charpy Combined Impact Test Machine

Model: HY-CY-JXB-22/50D

A. 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.

B. 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

C. 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, ftib/in and other units

- Built-in microprinter prints test data

D. Specifications

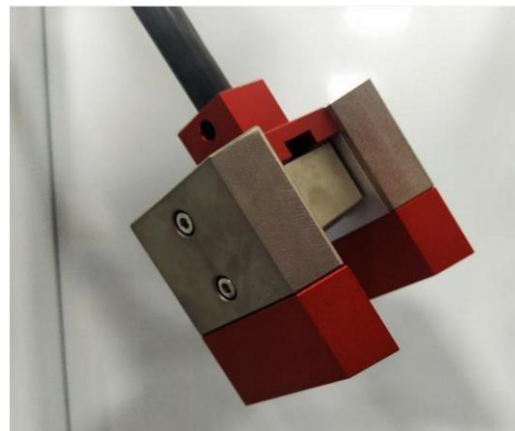
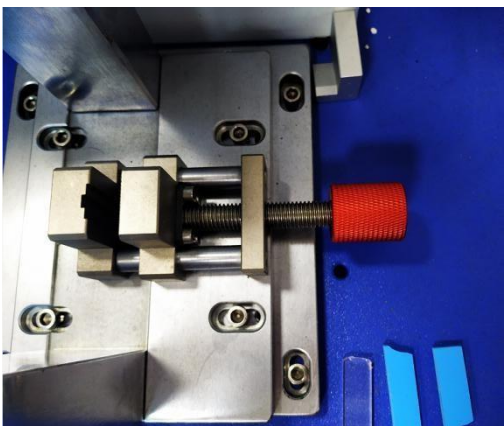
Item	Digital display cantilever beam and simple supported beam combined impact testing machine	
Model	HY-JXB-22/50D	
The pendulum energy	IZOD	2.75J、5.5J、11J、22J
	simply supported beam	1J、2J、4J、5J、7.5J、15J、25J、50J
Pendulum pre-evaluation angle	150°C	
Impact velocity	3.5m/s、2.9m/s、3.8m/s (can be designated)	
Distance between Pendulum and the impact blade	335mm、230mm、395mm	
Simply beam support distance	40mm、60mm、70mm、95mm	
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	AC220V±10% 50HZ	

E. Accessories List:

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

1J Impact pendulum	1	Pair	simply supported beam
2J 4J 5J Impact weight	3	Pair	
7.5J Impact pendulum	1	Pair	
15J Impact weight	1	Pair	
25J Impact pendulum	1	Pair	
50J Impact weight	1	Pair	
Pair model	1	Piece	
Wrench	1	A set of	
Printer	1	set	Installed on the machine
Printing paper	2	Reel	

F.More Imagines:

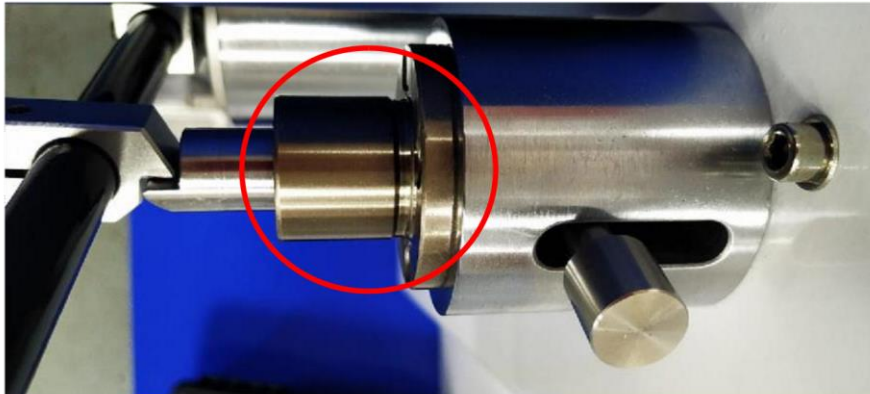


Sample Fixed fixture Standard impact hammer

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.



A device for lifting a hammer to a high place and holding it in place

