

Summary:

Digital IZOD & CHARPY Pendulum Impact Tester is used to test the impact toughness of the non-metallic materials such as rigid plastic, reinforced nylon, glass fiber reinforced plastic, ceramics, cast stone, plastic appliance and insulation materials. It is widely used in the scientific research institutes, universities and chemical industry as the common quality test equipment.

It is compatible with Izod test and Charpy test, the IZOD and CHARPY test method can be switchable which easy to use, easy to operate and high test accuracy.

Standard:

ISO179—2000: Determination of Plastics - Hard Materials Charpy Impact Strength

ISO180—2000: Determination of Plastics - Hard Materials Izod Impact Strength)

GB/T1043—2008: Rigid Plastic Charpy Impact Test Method

JB/T8762—1998: Plastics Charpy Impact Testing Machine

GB/T 18743-2002: Charpy Impact Test Method for Fluid Transport Via Thermoplastic Pipe (Suitable for pipe pieces)

ASTM D256-2010: Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics

Features:

A. High-precision intelligent controller equipped with LCD display which you can read the data intuitively and accurately;

B. China's first carbon fiber lever (It has been patented); it succeeds in doing experiments without shaking involving the impact direction, improving the rigidity of materials, and concentrating impacting strength on the centroid of the pendulum, and using life increases.

C. Imported high-resolution digital encoders, higher and more stable angle measurement accuracy;

D. Aerodynamic impact hammer and imported ball bearings greatly reduce mechanical friction losses

E. Automatic calculation of the final result, 12 sets of the test data can be stored and averaged;

F. Optional interface of Chinese and English; units (J / m, KJ / m², kg-cm / cm, ft-ib / in)can be customized according to customers' requirements.

G. Built-in mini printer to print the test data

Specifications:

Item	Charpy Impact	Izod Impact
Pendulum energy	NG-XJ5: 1J, 2J, 4J, 5J; NG-XJ15: 7.5J, 15J; NG-XJ50: 25J, 50J (Optional)	1J, 2.75J, 5.5J
Display mode	Color touch screen	
Pendulum angle	150°	
Impact speed	2.9m/s (3.8m/s)	3.5m/s
Impact center distance	230mm, 395mm	
Blade angle	30°	70°
Blade filleted radius	R=2mm±0.5m	0.8mm
Seat filleted radius	R=1m	
Blade front angle	5°	
Blade back angle	10°	
Sample type& dimension (L x W x T) mm ³	(ISO180-2000 or GB/T 1843-2008) Type-1:80×10×4 Type-2: 63.5×12.7×6.4 Type-3: 63.5×12.7×3.2	
Angle accuracy	Original OMRON encoder, 0.01°	
Power	220V±10% 50HZ	

Auxiliary Equipment you May Need for IZOD & CHARPY IMPACT TESTING:

(Notch Sampling Machine)



Notch Sampling Machine

NG-QKJ

Electric Notch Sample Machine for Digital IZOD & Charpy impact Tester, for scientific research institutions, universities, non metal materials manufacturers and related quality inspection agencies and other units of production of notched specimen, is a kind of simple structure and convenient operation, a milling one or more samples, and the precision is very high sample preparation equipment..