

# UBD

## UP-6182C IZOD&Charpy Combined Impact Tester



### **Introduction:**

This impact tester is used to test impact toughness of hard plastic, GFPA, glass fiber reinforced plastics, ceramics, cast stone, electrical insulating material and other non-metal material. It's an ideal testing equipment in chemical industry, R & D institution, quality controlling dept.

### **Character :**

- 1、 This impact tester adopts micro-computer technology to manufacture, it's an intelligent and digital impact tester. It can correct automatically energy loss caused by friction and wind drag. (After sample breakage, it's one-time finished for checking pendulum bob surplus energy and correcting the energy loss.)
- 2、 This impact tester is used to electronic display to show the test result, test result output by printer. Reading intuitive, improving the accuracy.
- 3、 Adopts rotary encoder grating angular technology, high accuracy, good stability, big measurement ranges. Digital showing impact energy, impact strength, Pre-elevation, lead angle, average value, energy loss ...

4、KJ-3092C is a combined impact tester, cantilever beam impact test and charpy impact test,designed by ISO 179、GB/T 1043、JB / T 8762 and ASTM D256.

**Charpy impact test :**

Impact speed	2.9m/s	3.8m/s
Pendulum bob energy	1J、 2J、 4J、 5J	7.5J、 15J、 25J、 50J
	Pd1 = 0.53590Nm	Pd7.5=4.01924Nm
	Pd2 = 1.07180Nm	Pd15 = 8.03848Nm
Pendulum bob Torque	Pd4 = 2.14359Nm	Pd25=13.39746Nm
	Pd5 = 2.67949Nm	Pd50 = 26.79492Nm
Centre distance	230mm	395mm
Pendulum bob Pre-elevation	150°	
Blade fillet radius	R=2±0.5mm	
Jaw fillet radius	R=1±0.1mm	
Impact blade included angle	30±1°	
pendulum bob impact	1J : 2% ; 2J : 1% ;	
Engergy loss	4J、 5J : 0.5%	0.5%
Jaw interval distance	40mm、 60mm、 70mm	60mm、 70mm、 95mm

**IZOD impact test :**

- 1、 Temperature: ( 15-35 ) °C
- 2、 Impact speed : 3.5m/s
- 3、 Impact energy : 1J、 2.75J、 5.5J、 11J、 22J
- 4、 Impact moment : Pd1=0.535N·M
  - Pd2.75=1.4737N·M
  - Pd5.5=2.9474N·M
  - Pd11=5.8949N·M
  - Pd22=11.7898N·M
- 5、 Bob angle : 150°±1°
- 6、 Impact center distance : 335mm
- 7、 Impact blade fillet radius : 0.8±0.5mm
- 8、 Distance from impact blade to jaw : 22±0.2mm
- 9、 Outside size : 560 ( Length ) \* 300 ( Width ) \* 840 ( Height ) mm
- 10、 Weight : 135kg