

Pendulum Impact Testing Machine for plastic pipe

ZBC 1501

The model ZBC1501 (Fig1) Pendulum Impact Testing Machine is mainly designed to perform special tests for plastic pipe (PPR, PVC-C...) to determine impact resistance performance under dynamic loading.

Two display methods are available: dial type and digital type (LCD monitor). Digital type can show absorbed energy, impact strength, the raising angle of pendulum and so on.

Standard:

ISO9854-1:1994, ISO9854-2: 1994, and other industry or similar standards.



Old LCD Monitor

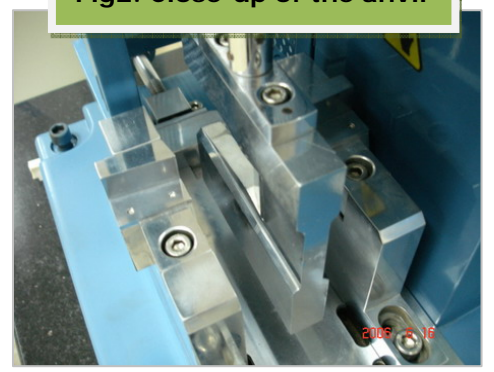
ZBC1501-2



New LCD Monitor



Fig2. Close-up of the anvil



Key Features

- Fast and simple to change impact energy only by changing pendulum arms.
- Reduced friction bearing shaft assembly and solid vibration-free base.
- Interchangeable anvils ensure constant striker center
- The instrument is controlled manually and semi-automatically and easy to operate.
- The test results can be obtained automatically after finishing test. Its excellence and advantage will be shown apparently in continuous impacting tests lab and abundant impacting tests manufacturers. Digital monitor allows test result through a pin-type printer.

Technical Specifications

Technical Specification	
Maximum impact energy	15J / 50J
Angle of pendulum striking	150°
Technical parameter of Charpy configuration	
Impact knife angle	30°
Impact knife round angle radius	2±0.5mm
Anvil round angle radius	1-1.5mm
Anvil backlash angle	10°±1°
Samples anvil supporting face front angle	60°
Span of anvil supporters	40mm
Velocity of striking	3.8m/s
Distance between pendulum center and sample center	395mm
Dimension of load frame(L x W x H)(mm)	480mm x 340mm x 805mm
Weight (approx)	100kg

Specimen Specifications

Specimen Specifications				
Type	Length	Width	Thickness	Span of anvil
1	100±2	Whole pipe section		70±0.5
2	50±0	6±0.2	e	40±0.5
3	120±2	15±0.5	e	70±0.5
Remark: e for the thickness of pipes/tubes				

Standard accessory

Name	Model	
Main frame	ZBC1501-1	ZBC1501-2
Charpy pendulum (50J)	One piece	One piece
Charpy anvil	One set	One set
Display	Dial display	LCD monitor
Printer	-----	Pin-type printer

Optional accessory

Charpy pendulum: 15J