Pendulum Impact Testing Machine | PIT Series Type A

Functions:

This series is widely used for Izod and Charpy impact test on plastics. Equipped with tensile impact pendulum and fixtures, it can carry on tests on plastic film and sheet.

Standards:

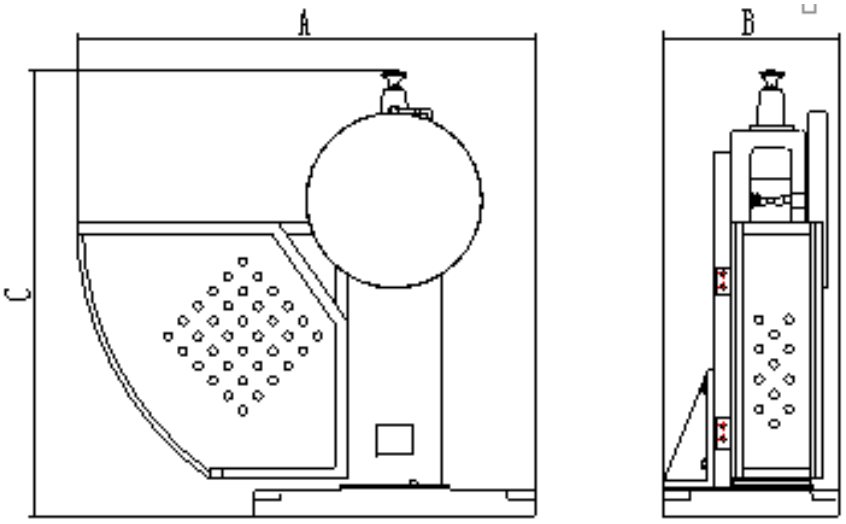
ISO 179, ISO 180, ISO 8256, ASTM D256, ASTM D1822, ASTM D6110

Features:

- The pendulum is designed by 3D CAD software and Finite Element Modeling (FEM) calculations, ensuring the accuracy of striking center, the accuracy of pendulum moment, and the accuracy of the test data
- Imported high precision ball bearing efficiently reduces energy loses
- Simple to operate: easy to change anvil and pendulum
- Optional different kinds of pendulum and anvil to meet wide applications
- Optional safety shield
- Optional digital type
  - LCD display is easy to read absorbing energy
  - Control system has the function of power-off protection
  - Test date can be printed out
  - High resolution data acquisition
  - Automatic energy lose amendment according to standards requirements
  - Controls and electric components are imported, guaranteeing machine stability
- Optional test software
  - It can work under X86 OS, like Windows XP, Vista, and Win7.
  - Real-time display of pendulum current angle and energy, angle after impact and absorbed energy, and striking angle.
  - Test report includes test date, test specimen information, absorbed energy, and impact toughness.
  - Automatically judge pass or no-pass according to preset criterion.
  - Test report can be reviewed and exported to EXCEL.

Dimensions

Model	Outside dimension (with shield) (A×B×C, mm)
PIT550A	640×240×720
PIT501A	780×300×805



Parameters

1. Impact energy

Model	Type	Max energy	Optional energy	Remark
PIT550	A-1	5.5J	Charpy:1J, 2J, 4J Izod(ISO/ASTM):2.75J, 5.5J	-1 dial display -2 digital display -3 Computer display
PIT550	A-2			
PIT550	A-3			
PIT501	A-1	50J	Charpy:7.5J, 15J, 25J, 50J Izod(ISO/ASTM): .5.5J, 11J, 22J Tensile impact: 7.5J, 15J, 25J	
PIT501	A-2			
PIT501	A-3			

2. Angle of pendulum striking: 150°
3. Charpy test
   - Velocity of striking:2.9m/s
   - Distance from the axis of support to the center of percussion : 230mm
   - Angle of striking tip: 30°
   - Radius of striking edge: 2mm
   - Radius of curvature of supports: 1mm
   - Angle of slope of supports: 5°
   - Angle of taper of supports: 10°
   - Support span: 40mm, 60mm, 70mm
   - Specimen dimension (length x width x thickness)
     80mm×10mm×4mm
     50mm×6mm×4mm
     120mm×15mm×10mm
4. Izod test
   - Velocity of striking: 3.5m/s
   - Distance from the axis of support to the center of percussion: 335mm
   - Angle of striking tip: 75°
   - Radius of striking edge: 0.8mm
   - Front angle of striking edge: 5°
   - Back angle of striking edge: 10°
   - Location of striking edge above top surface of support: 22±0.2mm

   Specimen dimension (length x width x thickness)
   80mm×10mm×4mm
   63.5mm×12.7mm×12.7mm
   63.5mm×12.7mm×6.4mm
   63.5mm×12.7mm×3.2mm
5. Tensile impact
   - Velocity of striking: 3.8m/s
   - Distance from the axis of support to the center of percussion: 395mm
   - Crosshead mass: 60±1g, 120±1g
6. Machine dimension (L x W x H): 360x240x720 mm
7. Weight: 70kg
8. Power requirements: VAC220±10% 50Hz 0.5kW

Standard accessories

Model	PIT550 PIT501	PIT550 PIT501	PIT550 PIT501
Type	A-1	A-2	A-3
Main machine	1 set	1 set	1 set
Analog display	1 set	1 set	1 set
Digital display	-	1 set	1 set
Software	-	-	1 set

Optional accessories

Test	Name	Description	Matched model
Charpy	Chapry pendulum	1J, 2J, 4J	PIT550
		7.5J, 15J, 25J, 50J	PIT501
	Charpy support		PIT550, PIT501
	Charpy span block		
	Charpy notch centering block		
Izod	Izod pendulum (ISO180)	2.75, 5.5J	PIT550
		5.5J, 11J, 22J	PIT501
	Izod pendulum (ASTM D256)	2.75, 5.5J	PIT550
		5.5J, 11J, 22J	PIT501
	Izod vise jaw		PIT550, PIT501
	Izod notch centering block		
Tensile impact	Tensile impact pendulum	7.5J, 15J, 25J	PIT501
	Tensile impact anvil		
	Tensile impact crosshead		