

**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.

Newly designed model offers the most cost-effective configuration to address Charpy test from 1J to 50J, and Izod test from 1J to 22J.

Standards

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

Features

Automatic hammer brake system

The brake system is automatically operated after each test

High resolution

Using a shaftless encoder allows angle resolution of 0.045 °

Energy losses

Shaftless encoder for angle measurement rotates without any friction; only support bearings friction and windage has the lowest energy losses

LCD display

LCD display provides easy setup of specimen dimensions, pendulum energy, units and calibration data. Also it can intuitively display test results: absorbed energy and impact toughness

Exchangeable pendulum

Simply change the pendulum to satisfy Charpy, Izod and tensile impact test

Center alignment

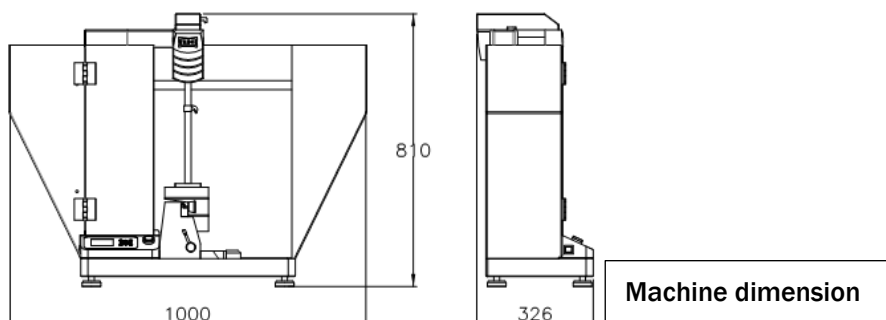
Rotating design is quick and accurate to align specimen center for Charpy test

Supports and anvils

Supports are tightened to seat by dovetail groove firmly; only need remove two bolts to change the supports

Broader test space

Single column structure offers broad test space, easy to install low temperature impact test accessories in the future



Parameter

1. Capacity

Charpy: 1J, 2J, 4J, 7.5J, 15J, 25J, 50J

Izod: 1J, 2.75J, 5.5J, 11J, 22J

Tensile impact: 7.5J, 15J, 25J

2. Angle of striking: 150°

3. Angle resolution: 0.045°

4. Charpy Test

- Velocity of striking: 2.9m/s (≤5J), 3.8m/s (>5J)
- Distance from the axis of support to the center of percussion: 230mm(≤5J), 395mm(>5J)
- Span: 40mm, 60mm, 70mm
- Specimen dimension (LxWxH): 80mmx10mmx4mm
50mmx6mmx4mm, 120mmx15mmx10mm

5. Izod test

- Velocity of striking: 3.5m/s
- Distance from the axis of support to the center of percussion: 335mm
- Striking knife center to vice upper surface: 22±0.2mm
- Specimen dimension (LxWxH): 80x10x4mm, 63.5x12.7x12.7mm
63.5x12.7x6.4mm, 63.5x12.7x3.2mm

6. Tensile impact test

- Velocity of striking: 3.8m/s
- Distance from the axis of support to the center of percussion: 395mm
- Crosshead mass: 60±1g, 120±1g
- Maximum specimen thickness: 4mm

7. Power supply: AC220V, 50Hz, 0.3kW

8. Machine dimension (LxWxH): 1000x300x760mm

9. Weight: 125kg

Standard accessories

Model	PIT501	
	J-2	J-3
Type		
Main machine	1 set	1 set
Angle encoder (shaftless)	1 set	1 set
Electromagnetic brake (Made in Germany)	1 set	1 set
Controller (WANCE)	1 set	1 set
Electromagnetic hook	1 set	1 set
Maintenance tools	1 set	1 set
Software	-	1 set

Optional accessories

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

Optional notch making machine

Name	Model
Notch making machine	NSM251A