



PENDULUM IMPACT TESTER SERIES C

STANDARD

ISO 148, EN10045, ASTM E23, GB/T 229, GB/T 12778

RoboTest Series C Pendulum Impact Tester addresses the needs of performing Charpy tests on metallic materials, fully complying with ISO, EN, ASTM and other international standards. RPIT-C series provides the user high quality at the most affordable price, with impact energy ranging 150J, 300J and 450J

IMPACT ENERGY

450J, 300J, 150J





RPIT452, type C-1
Half-closed protection shield



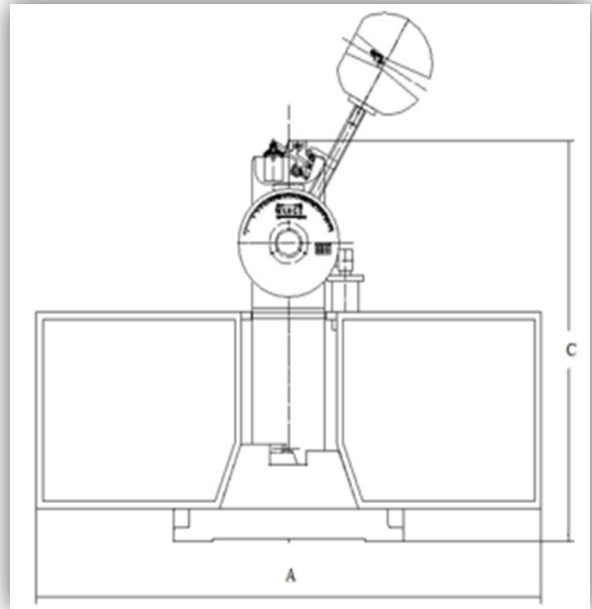
RPIT452, type C-2
Half-closed protection shield

FEATURES

- The basic instrument is designed to be mechanically stiff and is made of vibration damping cast iron.
- Optional touch screen display type, computer display type and instrumented type are available
- Motor-driven raising of hammer with auto-return after test
- Electromagnet can lock the pendulum tightly
- The pendulum height and weight are precisely designed, ensuring high accuracy
- It is convenient to change striking knife to meet ISO and ASTM standard
- High precision bearing with small friction
- Round shape pendulum design effectively reduces wind resistance
- SIMENS PLC controls for pendulum action with high accuracy

SPECIFICATIONS

1. Max impact energy: 150J, 300J, 450J
2. Pendulum moment: 80.3848 N.m, 160.7695 N.m, 241.1543 N.m
3. Angle resolution: 0.025°
4. Angle of striking: 150°
5. Distance from the axis of support to the center of percussion: 750mm
6. Velocity of striking: 5.2m/s
7. Support span: 40mm
8. Radius of curvature of supports: 2.5mm
9. Angle of slope of supports: 0°
10. Angle of taper of supports: $11^\circ \pm 1^\circ$
11. Radius of striking edge: 2-2.5mm
12. Angle of striking tip: 30°
13. Thickness of striking: 16 mm
14. Specimen dimension (Length x width x height):
55×10×10mm, 55×10×7.5mm, 55×10×5mm
15. Dimension (length x width x height A x B x C):
1950×575×1460mm
16. Weight: 600 kg
17. Power consumption: 800W
18. Power requirements: 3-phase, 5-line, AC 380V±10% 50Hz





Display Features

- Status of system limits
- Real-time display of hammer status
- Hammer set up and verification allows for hammer weight input
- Display potential /impact energy
- Displays theoretical velocity
- Encoder resolution of 0.025°

Test report

- Template can be customized according to requirements
- The report can be exported to EXCEL for review

STANDARD CONFIGURATIONS

Name	Description	Model			
		RPIT452 C-1	RPIT452 C-2	RPIT452 C-3	RPIT452 C-4
Main machine frame	RPIT452, Type C				
Display	Analog	✓			
	Touch screen		✓	✓	✓
Control electronics	SIMENS PLC	✓	✓	✓	✓
Half-closed protection enclosure	Metal mesh	✓	✓	✓	✓
Tool kits	Span block Specimen centering block Centering tongs inside-hexagonal spanner Anchor bolts wedge block	✓	✓	✓	✓
Communication cable to PC	RS232			✓	✓
Software	TestPilot, English version			✓	✓
Instrumented impact system (model: IIS105)	Data sampling card Data Conditioner Instrumented test software				✓



OPTIONAL PENDULUMS

Name	Description	Compatible Model
Charpy pendulum & specimen support (striking knife: R2/R8)	150J	RPIT452-C
	300J	
	450J	
Please specify ISO striker or ASTM striker		

OPTIONAL INSTRUMENTED PENDULUMS

Name	Description	Compatible Model
Instrumented Charpy pendulum & specimen support (striking knife with 30kN force transducer: R2/R8)	150J	RPIT452-C
	300J	
	450J	
Please specify ISO striker or ASTM striker		