

Impact energy:

150J, 300J, 450J, 600J, 750J

Functions:

This machine is used for measuring the Charpy impact resistance of metal and other materials

Standards:

ISO 148, EN10045, ASTM E23, GB/T 229, GB/T 12778, GOST 9454

Features:

- One-body cast frame design of seat and column provide high stability and rigidity
- Front and rear columns are symmetrical. Pendulum arm is designed of cantilever beam support, with simple structure and high machined precision
- Apply high precision bearing with small friction.
 Absorbing energy without loading is less than 0.3%
- Double reduction gear system replaces old style drive system with high efficiency and avoiding transmission failure
- Round pendulum head design reduces windage losses to the most
- High rigid pendulum arm prevents axial and transverse vibrations
- Exchangeable pendulum is simple to change to satisfy impact energy of 150J, 300J, 450J, 600J, 750J
- Electromagnetic release of pendulum hammer and electromagnetic clutch for locking the pendulum and raising it to its initial position. A damper is equipped to prevent strong bump when clutching
- Full-closed enclosure with high safety to prevent broken sample from splitting. Protective screening has interlock door. When the door opens, most operations can't work to avoid any



wrong operation

- Apply SIEMENS industrial PLC to control pendulum, and high precision Japanese made NEMICON rotary encoder to measure striker real time position. The whole system is stable, reliable and accurate
- A big touch screen monitor may real-time displays striker angle, impact energy, toughness, and other parameters. User can input specimen data and other information such as company information into this monitor. When connected to a printer, user input information and test results will be printed
- Optional computer with software control is available to realize semiautomatic operation.
 Operator only need charge specimens. Others can be controlled by software
- Optional specimen feeding system is available.
 Combined with computer and software, fully automatic operation can be realized
- Optional cooling system is available to satisfy cold specimen test down to -180°C

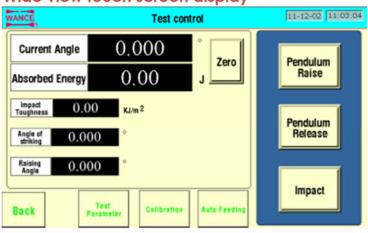


Specimen collection and filtering device

- Motorized device is used for collecting broken specimens after impact, instead of manual cleaning, which fully prevents striker from getting stuck
- Unique specimen filtering function: automatically judge and transport qualified and unqualified specimens to different collecting box



Wide view touch screen display





Professional test software

This software is designed specifically for testing metals to Charpy standards. Software provides an easy-to-use method for gathering, calculating and storing impact test results. The test result can be printed and exported to EXCEL for review.

Display Features

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

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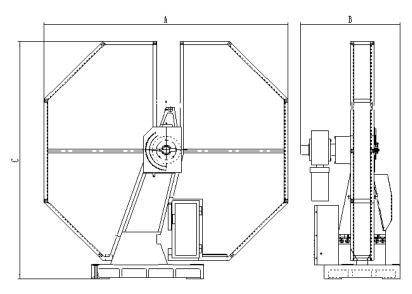
Test report

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

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Specifications

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	Mod	PIT452 PIT752			
	Тур	e	Type D		
١	Maximum	n energy	450J	750J	
0	ptional p	150J, 300J 300J, 450J, 600			
	Angle of	150°±1°			
Angle m	neasuren	nent resolution	0.025°		
Distance from the axis	of suppo	ort to the center of percussion	750mm		
V	elocity of	striking	5.2	24m/s	
		Support span	40mm		
Support	Rad	ius of curvature of supports	1	lmm	
	А	ngle of taper of supports	11°±1°		
		Radius of striking edge	2mm		
Striking knife		Angle of striking tip	30°		
		Thickness of striker	1	6mm	
			55×10×10mm		
Sp	ecimen c	limension	55×10×7.5mm		
			55×1	10×5mm	
	Weig	ght	900kg		
Dimension(A x B x	x C) In	cluding protection shield	2200×800×2050mm		
Dimension(A x B x C)	equipp	oed with auto feeding system	2200×1450×2050mm		
Do	wor roal	iirements	3-phase, 5-line, AC 380V±10% 50Hz		
FU	wer requ	mements	1.5kW		
		1 50J	80.3848 Nm		
		300J	150.7695 Nm		
Pendulum mome	nt	450J	241.1543 Nm		
		600J	321.5390 Nm		
		750	401.9238 Nm		



Standard configurations

		Model			
Name	Description	PIT452D-2	PIT452D-3	PIT452D-4	
		PIT752D-2	PIT752D-3	PIT752D-4	
	Frame	√	√	√	
	Pendulum lock/release system	√	√	√	
	Driving system	✓	√	✓	
Framework	Angle measurement system	✓	√	✓	
Traillework	SIMENS PLC control	✓	✓	✓	
	Dial gauge display	✓	√	✓	
	Touch screen	✓	✓	✓	
	Protection shield	✓	✓	✓	
Software			√	√	
Communication cable to PC	RS232		4	√	
	Span block		4		
	Specimen centering block				
Accessories	Centering tongs	,		,	
Accessories	inside-hexagonal spanner	~		✓	
	Anchor bolts				
	wedge block				
Instrumented impact system	Data sampling card				
(model: IIS105)	Data Conditioner			✓	
(model. listos)	Instrumented test software				

Optional pendulums

Name	Description	Compatible Model			
	150J	PIT452D			
Charpy pandulum ? apaciman aupport	3001	PIT452D, PIT752D			
Charpy pendulum & specimen support (striking knife: R2/R8)	450J	PIT452D, PIT752D			
(Striking kille. R2/R0)	600J	PIT752D			
	750J	PIT752D			
Please specify ISO striker or ASTM striker					

Optional instrumented pendulums

Name	Description	Compatible Model			
	150J	PIT452D-4			
Instrumented Charpy pendulum & appairmen aupport	3001	PIT452D-4, PIT752D-4			
Instrumented Charpy pendulum & specimen support (striking knife with 30kN force transducer: R2/R8)	450J	PIT452D-4, PIT752D-4			
(Striking killie with Sokiv force transducer, R2/R6)	600J	PIT752D-4			
	750J	PIT752D-4			
Please specify ISO striker or ASTM striker					

Optional cooling system

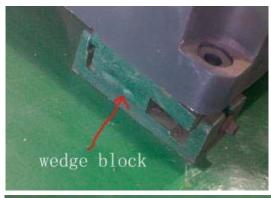
Name	Model	Description	Accessories
	LTC601A-2	-60°C ~ambient Cooling method: air compressor	Specimen auto-feeding system Low temperature chamber Air compressor
Low temperature specimen auto-feeding system	LTC102B-2	-100°C~ambient Cooling method: liquid nitrogen	Specimen auto-feeding system Low temperature chamber
	LTC182B-2	-180°C~ambient Cooling method: liquid nitrogen	Liquid nitrogen cylinder
	LTC601A-1	-60°C ~ambient Cooling method: air compressor	Low temperature chamber
Manual cooling system	LTC801A-1	-80°C ~ambient Cooling method: air compressor	Air compressor
Maridar cooling system	LTC102B-1	-100°C~ambient Cooling method: liquid nitrogen	Low temperature chamber
	LTC182B-1	-180°C ~ambient Cooling method: liquid nitrogen	Liquid nitrogen cylinder

Optional notch broacher

Spiratian material broading.					
Name	MODEL				
Notch making machine	NSM201B				

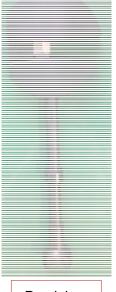
Shipping information

Name	Crated dimension (mm)	Crated weight (kg)	
Main machine	1220x1080x1860	850	
Full-closed protection shield	2060x550x1250	150	
Main machine with specimen feeding system	1700x1600x1860	900	
Nitrogen cylinder	660x660x1790	100	

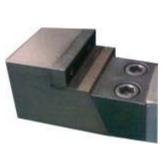




Foundation bolt







Anvil & support



Span block



Specimen centering block



Centering tongs





Inside-hexagonal spanner



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