



JB-W300B Impact Testing Machine



Application

This machine is mainly used to determine the resistance of metal materials to impact under dynamic load in order to judge the properties of materials under dynamic load.

This machine is a microcomputer-based semi-automatic impact testing machine. It adopts PC microcomputer control, electric swing, impact, microcomputer measurement, calculation, screen digital display and printing, etc., with high work efficiency and high test accuracy. After impacting the sample, the remaining energy can be automatically lifted, ready for the next test, easy to operate and high in work efficiency. It is better able to demonstrate its superiority in the laboratory where the impact test is continuously performed and in the metallurgical and mechanical manufacturing industries where a large number of impact tests are performed. The computer can calculate and absorb the impact energy, impact toughness, pendulum angle and test average of the material, and print the current test data and the average value of the test.



JB-W300B Impact Testing Machine

JB-W300B Parameter

Energy (J)	150, 300	Impact Speed (m/s)	5.2
Angle	150 degree	Support Span (mm)	40
Support fillet radius (mm)	R1 - 1.5	Impact knife fillet radius (mm)	R2 - 2.5
Pendulum moment (impact constant) (N.m.)	80.3848 and 163.7695	Distance from the center of rotation of the pendulum to the point of impact (test center) (mm)	750
Sample support bearing surface inclination	0 degree	Impact knife angle	30±1 degree
Impact knife thickness (mm)	16	Sample size (mm)	10 x 10 (7.5 or 5) x 55
Power Supply	380V	Dimensions (mm)	2124 x 725 x 1340
Weight (kg)	450		

JB-W300B Main equipment configuration

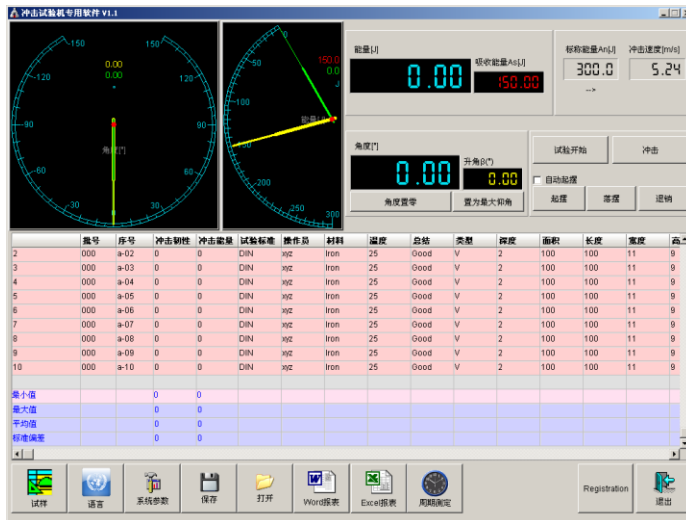
300 joules of a host	150J, 300J pendulum each
One motor (mounted on the main unit)	A set of pendulum transmissions (mounted on the main unit)
A set of automatic hanging devices (mounted on the host);	A set of insurance institutions (installed on the host);
A set of safety protection devices	Support adjuster
Sample centering device	Photoelectric sensor
A set of Lenovo microcomputer system	A set of special measurement software

JB-W300B Measurement and control part description

Windows platform, on-screen display, mouse operation	The software supports multiple pendulums.
Record impact strength, impact energy, etc. Also calculate maximum and minimum average and standard deviation	The experimental results are automatically calculated.
Automatic measurement of the swing period.	



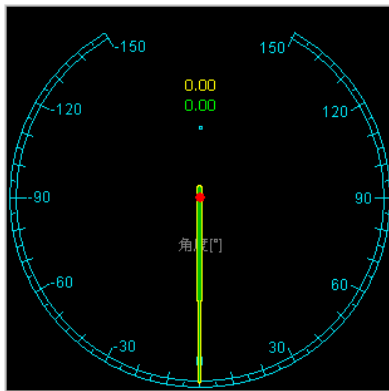
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The main window (pictured) is the software operation control center. Supervised test results management.

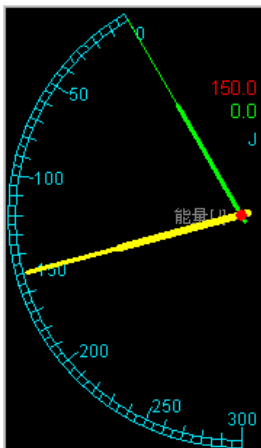
The test software can display the real-time virtual digital tube, monitor the energy value and the angle value, and maintain the impact energy of a blow or air swing in real time.

Can be changed to be English Version**



Angle disk display

The yellow value and the pointer maintain the maximum angle. Green data and pointers indicate instantaneous angle values



Virtual energy display

Red data and pointers hold the final energy value. Green data and yellow pointers store instantaneous energy values.

[illegible][illegible]

		[UNIT: 1']		[UNIT: 1']		[UNIT: 1']	
8	Number 818 .	Area 818 .	8Toughness 818 .	8Energy 818 .			
9	Number 828 .	Area 828 .	8Toughness 828 .	8Energy 828 .			
10	Number 838 .	Area 838 .	8Toughness 838 .	8Energy 838 .			
11	Number 848 .	Area 848 .	8Toughness 848 .	8Energy 848 .			
12	Number 858 .	Area 858 .	8Toughness 858 .	8Energy 858 .			
13	Number 868 .	Area 868 .	8Toughness 868 .	8Energy 868 .			
14	Number 878 .	Area 878 .	8Toughness 878 .	8Energy 878 .			
15	Number 888 .	Area 888 .	8Toughness 888 .	8Energy 888 .			
16	Number 898 .	Area 898 .	8Toughness 898 .	8Energy 898 .			
17	Number 908 .	Area 908 .	8Toughness 908 .	8Energy 908 .			
18	Min Value .	Area 8Min3 .	8Toughness 8Min3 .	8Energy 8Min3 .			
19	Max Value .	Area 8Max3 .	8Toughness 8Max3 .	8Energy 8Max3 .			
20	Mean Value .	Area 8Mean3 .	8Toughness 8Mean3 .	8Energy 8Mean3 .			
21	Standard Deviation .	Area 8Std Deviation3 .	8Toughness 8Std Deviation3 .	8Energy 8Std Deviation3 .			

1 页

1 节

1/1

位置: 7.4厘米

8 行

9 列

类别

材料

步数

时间

英语 (美国)

	Batch	Number	Toughness	Energy	Standard	8 Test Date	Operator	Material	Temperature [°C]	Comment	Qty
1	000	+01	0	0.7	DIN	2006/06/05	Lin	Iron	25	Good	V
2	000	+02	0	0.7	DIN	2006/06/05	Lin	Iron	25	Good	V
3	000	+03	0	0.7	DIN	2006/06/05	Lin	Iron	25	Good	V
4	000	+04	0	0.7	DIN	2006/06/05	Lin	Iron	25	Good	V
5	000	+05	0	0.7	DIN	2006/06/05	Lin	Iron	25	Good	V
6	000	+06	0	0.7	DIN	2006/06/05	Lin	Iron	25	Good	V
7	000	+07	0	0.46	DIN	2006/06/05	Lin	Iron	25	Good	V
8	000	+08	0	0.7	DIN	2006/06/05	Lin	Iron	25	Good	V
9	000	+09	0	0.7	DIN	2006/06/05	Lin	Iron	25	Good	V
10	000	+10	0	0.46	DIN	2006/06/05	Lin	Iron	25	Good	V
Min			0	0.5							
Max			0	0.7							
Mean			0	0.65							
Std.Deviation			0	0.101							



Optional – DWC-60 Low Temperature Tank



DWC-60 impact test low temperature is the latest compressor refrigeration equipment developed by our company according to the requirements of low temperature devices in GB229-2002 "Metal Charpy Notch Impact Test Method". This equipment adopts imported dual-compressor refrigeration technology, adopts the principle of heat balance and cyclic stirring to achieve automatic uniform cooling and constant temperature of the sample, and can fully meet the various temperature control indicators specified in the national standard GB-229-2002. This equipment is simple and convenient to operate and has high working efficiency. It is the most ideal sample cooling and heat preservation equipment in the low-temperature impact test of materials. It can also be used for other low temperature detection and test work

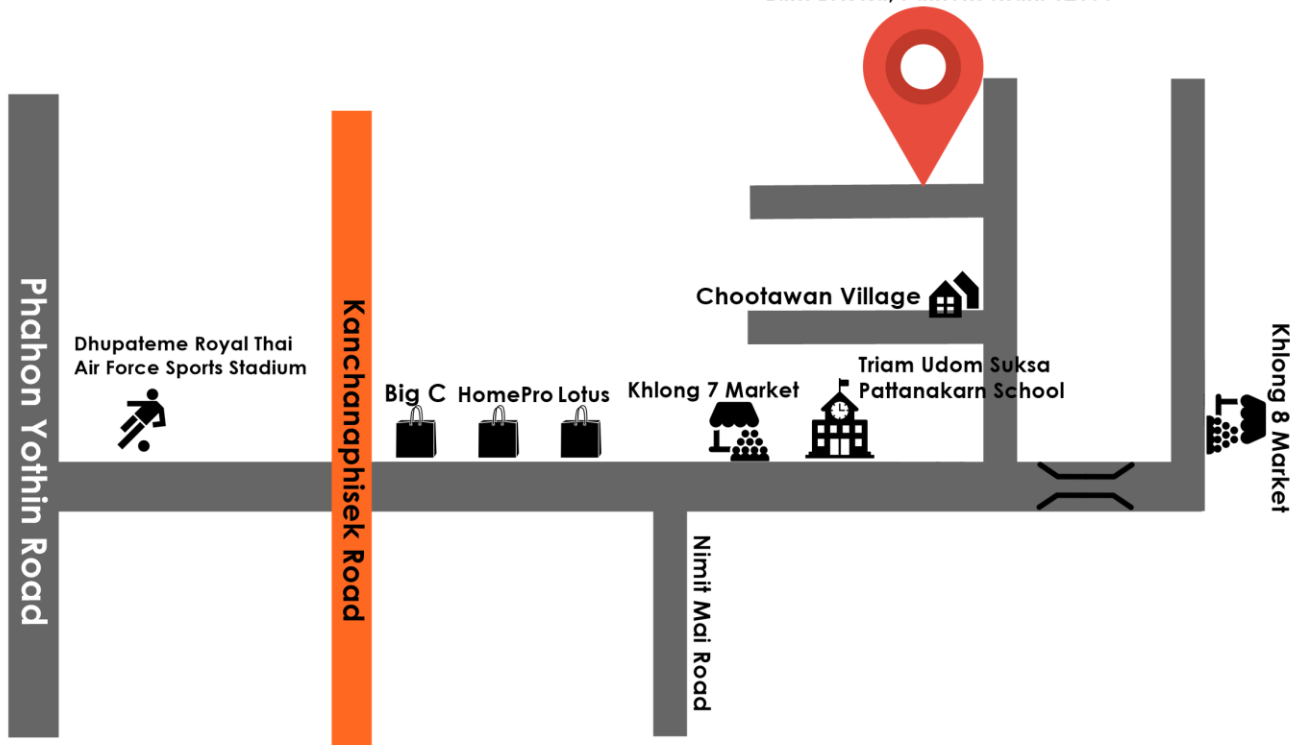
DWC-60 Parameter

Temperature control range	Room temperature ~ -60°C	Constant temperature accuracy	<0.5°C
Cooling rate	+30°C~0°C approx. 2.0°C/min 0°C~-20°C approx. 1.5°C/min -20°C~-40°C approx. 1.0°C/min -40°C~-60°C approx. 0.7°C/min	Maximum size	900×505×850 mm
Effective working space	120×120×70 mm	Number of samples that can be loaded	>60 (sample size 10x10x55mm)
Digital timer	1 second to 99 minutes, resolution 1 second	Cooling medium	Ethanol or other antifreeze
Stirring motor	16W	Power supply	220~240V, 50Hz, 1.5KW



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