

Charpy Impact Testing machine

JB/JBS/JBW Series Charpy (simple-beam) Impact Testing Machine mainly used to determine the anti-impact capability of ferrous metal materials with high toughness, especially for steel and iron material and their alloy, under dynamic load impacting.

This machine can be operated semi-automatically.

The pendulum of the machine can be raised or released automatically by button pressed. They are essential testing instruments for quality testing section, university and college, research institution and industrial and mining enterprise. The machine can do the test according to ASTM E23 and ISO 148 or other equal standards.

JBS Digital Display Charpy Impact Testing Machine is controlled by PLC and indicator by 7 inch touch LCD screen. It has data store and printing function.

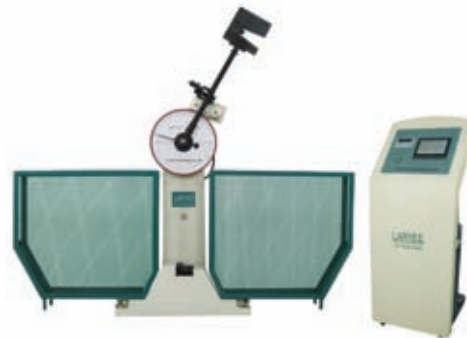
JBW Series Computer Control Charpy Impact Testing Machine is controlled by control software base on the windows OX and PC. It has data processing, store and printing function.



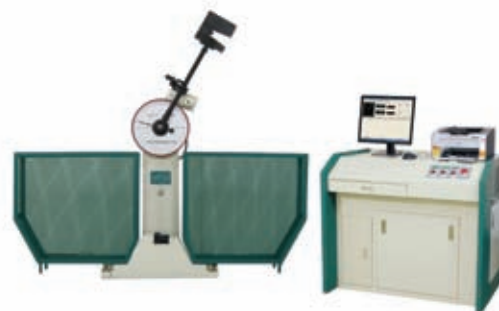
JB-300B

Character

- ✘ Two Pendulums (big and small) and two scale reading for each testing machine which enlarge the test range of energy.
- ✘ Safety pin guarantees the impact action.
- ✘ Protection shell avoids the hit and break sample splashing.
- ✘ Sample and support are easy centering.
- ✘ Electromagnetic clutch hold the raising pendulum. Power sudden off still in safety.
- ✘ **JB Series** Pendulum rising, impact, free releasing is realized as automatically by control remote.
- ✘ **JBS Series** Pendulum rising, impact, free releasing is realized as automatically by control remote and LCD controller. Fully PLC control and I/O data processing. Test data store and printing function. Dial gauge and Digital out put synchronous test result.
- ✘ **JBW Series** Pendulum rising, impact, free releasing is realized as automatically by control remote and computer control software. Fully Computer PCI sockets PCI DSP control card and I/O data processing. Test data statistical function, store and printing function. Dial gauge and software out put synchronous test result.



JBS-300



JBW-300

STAND ON LARYEE, STAND ON QUALITY

Specification

Parameters	JB-300B	JBS-300	JBW-300	JB-500B	JBS-500	JBW-500	JB-800B	JBS-800	JBW-800
Impact energy	150J; 300J			250J;500J			500J,800J		
Pendulum moment	80.3848/160.7695			133.9746/267.9492			267.9492/7190		
Impact velocity	5.2m/s			5.4m/s			5.9m/s		
Raising angle	150°			150°			150°		
Striker tip angle	30°			30°			30°		
Anvil taper angle	11°			11°			11°		
Pendulum Pole length	750 mm			800 mm			750		
Standard Sample span	40mm			40mm			40mm		
Round angle radius of grips	R1-1.5mm			R1-1.5mm			R1-1.5mm		
Round angle radius of striking edge	R2-2.5mm			R2-2.5mm			R2-2.5mm		
Power supply	3 Phase, 380V, 50Hz/60Hz								
Dimension	2100×650×1900 mm						2450 × 1200 × 2455mm		
Weight(Kg)	500kg	600kg		750kg	900kg		2000kg		
Standard Accessories	JB Series			JBS Series			JBW Series		
	Anchor Bolts, Jaws (Including support)			Touch LCD indicator Mini Printer			PC ,Printer , Control Carbinet		
	Main Machine, Protect Shell, Remote, Pendulum weight,								

Note: Size of specimen: 10mm x 10mm x 55mm (U,V notched)

Software interface



STAND ON LARYEE, STAND ON QUALITY

Low Temp Chamber for Impact Testing Sample



DWC

This machine is used to the preparation of metal impact testing sample in the low temperature environment. It adopts the compress air cooling system in quickly cool down mode. It is a convenient machine as using digital temperature indicator, controlled by the microprocessor and with system alarm function. The machine fulfils the standard of ASTM E23 and ISO142.

Model	DWC-30	DWC-50	DWC-80
Temperature range	-30℃~R.T.	-60℃~R.T.	-80℃~R.T.
Accuracy	<±0.5℃		
Inner size	120×120×80mm		
Samples quantity can be put in	More than 60 pcs		
Cooling material	Ethanol or other ice-free liquid		
Power	1.0 kw	1.5 kw	2.0 kw

Impact Testing Standard Specimen

This Standard Specimen is used to verify or calibrate Metal charpy impact testing machine in direct way. It is designed and make ccording to ISO148-3, impact energy of impact stand specimen divided into 4 grades:

Energy grade	Energy range	Standard deviation
Low	28J	≤1.5J
Middle	82J	≤2.0%
High	128J	≤2.0%
Super High	238J	≤2.0%



Patent No. ZL 200420000661.6

UV Notching Machine for Impact Testing Sample

This machine is designed for providing the specimen used in the impact testing tasks. Notching can cut notch on the specimen for only one go of the cutter. Besides, it has advantages of high precision, long life, low noise and concise appearance etc. The Notched samples fulfill the test standard of ASTM E23 and ISO148.

Specification

Model	UV-1H	UV-2H	UV-2D	UV-2P
Picture				
Notch Type	U or V type	U and V type		
Cutter	Single	Double	Double	Double
Drive method	By hand		By motor	By hydraulic
Cutter hardness	72-75 HRC			
Notch stroke	340mm			
Notch Speed	Manually control		2.5m/min	2.0m/min
Size of Specimen	10mm x 10mm (7.5 or 5mm as special) x 55mm			
Power supply:	None		3phase, 380/220V, 50/60 Hz	
Machine size	600×500×1200mm			
Weight	120kg	135kg	150kg	200kg

Impact Specimen Notch Projector

The projector is a special optical instrument designed and developed for preparing to test the V-shaped or U-shaped notch processing quality of impact specimen. The processed specimen notch is amplified for 50 times and projected onto the observation screen; then a comparison is carried out with the standard drawing board inscribed on the observation screen and it is can be rapidly determined whether the notch of the impact specimen is qualified. The comparison is directly visible and the operation is simple with high efficiency. The projector is indispensable special equipment for physicochemical laboratory.

Main technical indexes:

Projection screen	200×200mm
Amplification rate	50X
Light source	12V 100W (ungsten halogen lamp)
Specimen stage adjustment	Front, rear, left, right, upper and lower rotation for 360 degree
Power	200V 50HZ 200W
External dimension	515×224×603mm
Weight	About 18 kg



Profile projector