

JB Series Semi-automatic Pendulum Impact Testing Machine

Application:

JB series impact testing machines are used to determine the impact toughness of metal materials under dynamic load. The pendulum of the machine can be raised or released automatically. They are designed according to the international standards ISO148 and ASTM E23. They have the features of easy operation, high efficiency, safe and reliable. The machines are especially suitable for laboratory, metallurgy industry, machinery production, steel plant and other fields.



Specifications	JB-300B JB-500B		JB-800B	
Max. impact energy (J)	300 500		800	
Impact velocity (m/s)	5.2	5.9		
Raised angle (°)	150			
Standard span (mm)	40			
Round angle of jaws (mm)	R1-1.5			
Round angle of striking edge (mm)	R2-2.5			
Size of specimen (mm)	10 x 10 x 55			
Power supply	3phs, 380V, 50Hz or 220V,60Hz			
Dimensions (mm)	2124 x 600 x 1340	2144 x 736 x 1390	2450 x 1200 x 2455	
Net Weight (kg)	450	650	2300	



JBS Series Digital Display Pendulum Impact Tester

Application:

JBS series digital display pendulum impact testing machine are mainly used to determine the anti-impact capability of metal materials under dynamic load. They are the best testing equipments for many metal material manufactories, quality inspection departments and universities. The results will be displayed on both digital screen and dial gauge. JBS series impact testers can use pendulum's residual impact energy to achieve the re-raising of pendulum, so as to save energy. The results can be printed out, be applicable for mass testing departments. JBS impact testers are strictly designed according to the standards ASTM E23, ISO148-1983 and GB/T3038-2002, GB/229-1994.



Specifications	JBS-300 JBS-500		JBS-800		
Max. impact energy (J)	300	500	800		
Impact velocity (m/s)	5.2	5.4	5.9		
Raised angle (°)	150				
Standard span (mm)	40				
Round angle of jaws (mm)	R1-1.5				
Round angle of striking edge (mm)	R2-2.5				
Size of specimen (mm)	10 x 10 x 55				
Power supply	3phs, 380V, 50Hz,				
Dimensions (mm)	2124 x 600 x 1340	2144 x 736 x 1390	2450 x 1200 x 2455		
Net Weight (kG)	450	650	2300		
Display	LCD screen				



JBW Series Computer Screen Monitor Pendulum Impact Tester

Application:

JBW series computer monitor pendulum impact testing machine are strictly designed according to the international standards ISO148 and ASTM E23. There are mainly used to determine the anti-impact capability of metal materials under dynamic load. Carry out the functions of zero clearing and automatic return, capturing the value of lost impact energy and pendulum cycle by means of setting up with computer program, and the results can be monitored, stored and printed out. Control box or computer program control is alternative operating method. JBW series impact testers are adopted by many institutes and high-tech enterprises.



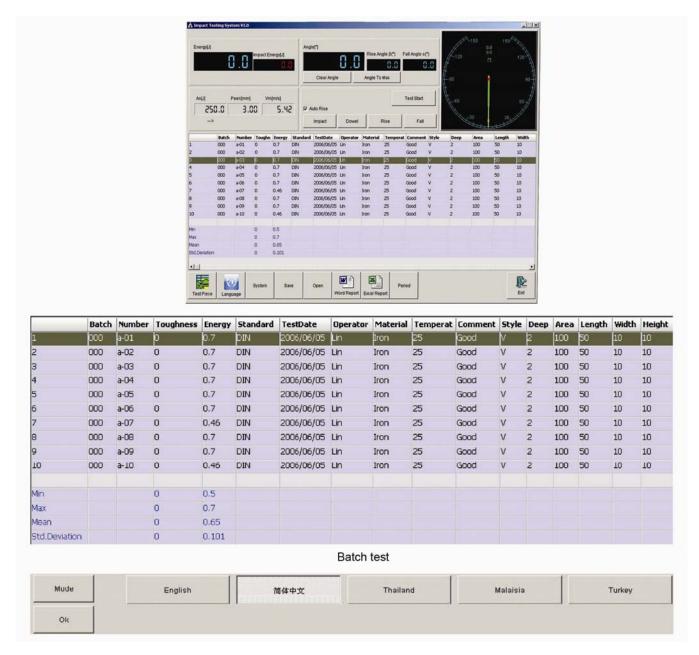
Specifications	JBW-300 JBW-500		JBW-800	
Impact energy (J)	300 250, 500		500, 800	
Impact velocity (m/s)	5.2	5.2 5.4		
Raised angle	150°			
Standard span (mm)	40			
Round angle of jaws (mm)	R1-1.5			
Round angle of striking edge (mm)	R2-2.5			
Size of specimen (mm)	10 x 10 x 55			
Power supply	3phs, 380V, 50Hz or 220V, 60Hz			
Dimensions (mm)	2124 x 600 x 1340	2144 x 736 x 1390	2450 x 1200 x 2455	
Net Weight (kg)	450	650	2300	
Display	Computer screen			



Software of JBW series

Functions:

- Windows platform, screen display, operating by mouse;
- The software displays two ranges of Impact Energy after calibration;
- Recording test result of Min, Max, Mean, Standard Deviation of batch test;
- Also calculate the results of Impact Energy, Impact Toughness Etc.;
- Test result can be automatic calculated. Can automatically measure the swing period of 100 times;
- Support multi language if needed;
- Support test report into Microsoft Word 2000 and Excel 2000 or higher version.





DT Series Drop Weight Impact Testing Machine

Application:

DT Series drop weight impact testing machine are suitable for drop weight tear test to various kinds of ferrites, especially for the test of DWTT to pipeline steel as ASTM E436 and API 5L. Equipped with different weights and anvils, it can do other types of impact tests according to customers' special request.

Features

- Adjusting impact energy by adjusting the lifting height and the numbers of the weights.
- The buffer is equipped to absorb the residual energy after breaking the specimen to protect the weight and anvil from destroying. Also install the safe outfit, such as safety net, safe pin for maintenance and hanger locking.
- Equipped with the specimen-carrying outfit, anti-falling of outfit for the specimen, centering outfit to guarantee quick, accurate and reliable tests.



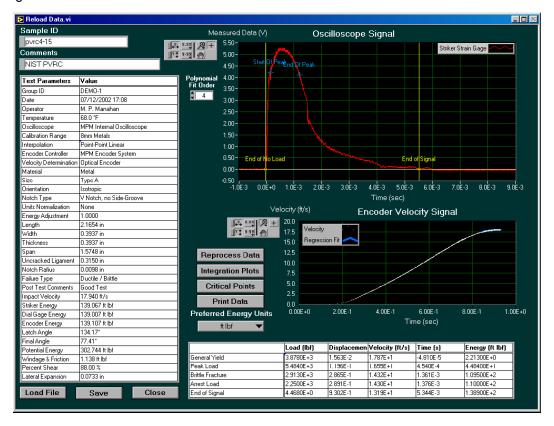
Model	DT-20000	DT-30000	DT-40000	DT-50000	DT-80000
Max. Energy (J)	20000	30000	40000	50000	8000
Max. Lifting height (mm)	3000	2800	2500	2500	3000
Max. Impact velocity (m/s)	7.6	7.4	7	7	7.5
Curvature radius of weight (mm)	R25	R25	R25	R25	R25
Curvature radius of anvil	R25	R25	R25	R25	R25
Hardness of weight and anvil	≥HRC58	≥HRC58	HRC5-65	HRC58-65	HRC58-65
Distance between supports (mm)	254	254	254	254	254
Centering deviation of specimen (mm)	≤±1	≤±1	≤±1	≤±1	≤±1
Indicating deviation of lifting height (mm)	≤±1	≤±1	≤±1	≤±1	≤±1
Height of the load frame (mm)	5500	5500	5700	5700	6800
Weight (kg)	5800	5900	9000	15000	18000



Instrumented Impact Testing System

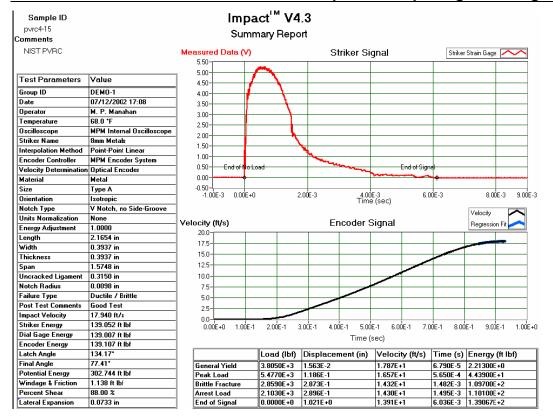
Instrumented Impact System Includes:

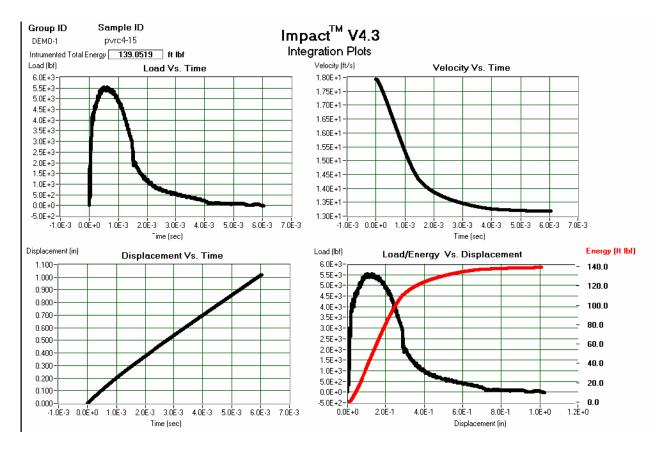
- Data acquisition/control (DAC) computer/flat panel monitor/keyboard/and mouse
- Strain gage amplifier inside DAC computer
- High speed 12 bit data acquisition board inside DAC computer which allows any number of data points per test up to 1,000,000 (50,000 points are adequate for most tests)
- Remote balance and shunt calibration of striker from the DAC front panel
- Site license for Windows XP based ImpactTM v 5.0 data acquisition and analysis software
- Users manual and online computer help
- Data acquisition computer with 12 bit fast acquisition board, encoder board, encoder hardware, and strain gage amplifier. The amplifier provides auto-balance, amplifier range selection, and shunt calibration for periodic calibration checking. The amplifier is capable of a wide range of amplification settings for the research environment needs.



Data acquisition screen for test conducted on a pendulum impact machine. The voltage-time data are displayed along with the test parameters.

Impact & Drop Weight Testing Machine





Instrumented Impact Testing Striker (One of the striker is with the machine)

- 8.0mm radius instrumented striker, ASTM E 23
- 2.0mm radius instrumented striker, ISO183



Impact Tester of Non-metal material

Application:

This non-metal material impact testing machine is to determine the impact toughness of plastic, glass steel, plastic pipe, strong nylon, china, clay rock, anti-electric materials.

They can do Charpy, Izod, tensile impact, Charpy & Izod, Charpy &Izod& tensile impact tester by different anvils and pendulums as the standards of ASTM D 256-90 Meth. A, ASTM D 256-97 Meth.B, ASTM D 256-97, ASTM D 6110-97, ASTM D 5942-96 ASTM D 1822, ASTM D 4812, DIN 53753, DIN 53453, DIN 51222, DIN 53448, ISO 180, ISO 179, ISO 8256, BS 2782 Part.3 Meth. 350, BS 2782 Part. 3 Meth. 359. BS 7413, AFNOR T51-111, UNI 6323, UNI 6062, GB/T1043, GB1843.

Pendulum can carry out the full range of impact tests. A complete full range of fully interchangeable hammers and vises allows the operator to perform Charpy, Izod and Tensile impact test at different impact velocities and energies.

Specifications:

Span of the grips for Charpy: 40mm, 60mm

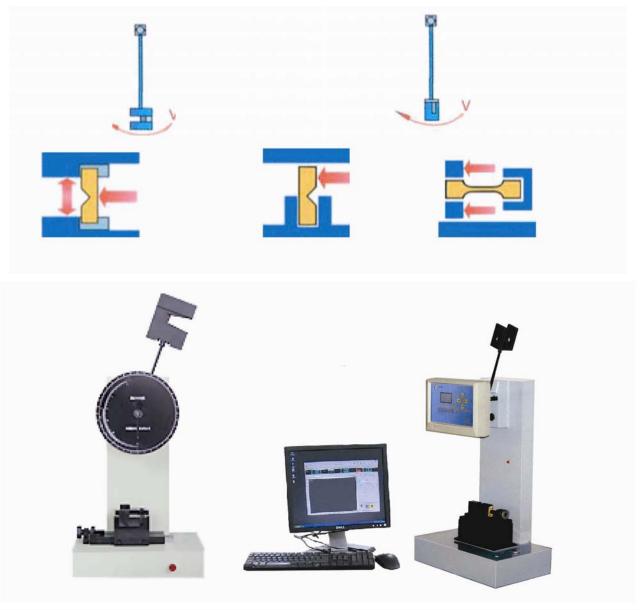
Pre-elevation: 160°

Model	Туре	Display	Energy(J)	Impact speed(m/s)	
TEXC-2.75			1, 2.75	3.5	
TEXC-5.5	Izod	Dial	1, 2.75, 5.5	3.5	
TEXC-22			5.5, 11, 22	3.5	
TEXC-2.75D			1, 2.75	3.5	
TEXC-5.5D	Izod	Digital	1, 2.75, 5.5	3.5	
TEXC-22D			5.5, 11, 22	3.5	
TEJC-5			0.5, 1, 2, 4, 5	2.9	
TEJC-25			7.5, 15, 25	3.8	
TEJC-25Z	Charpy	Dial	0.5, 1, 2, 4, 4/7.5, 15, 25	2.9/3.8	
TEJC-50			7.5, 15, 25, 50	3.8	
TEJC-5D			0.5, 1, 2, 4, 5	2.9	
TEJC-25D	Charpy	Digital	Digital	7.5, 15, 25	3.8
TEXJC-25ZD	2.9		0.5, 1, 2, 4, 4/7.5, 15, 25	2.9/3.8	
TEJC-50D			7.5, 15, 25, 50	3.8	
TEXJC-5	Charpy/ Izod	Dial	(Izod)1, 2.75 (Charpy)0.5 , 1, 2, 4, 5	3.5/2.9	
TEXJC-2522(D)	Charpy/ Izod	Dial (Digital)	(Izod)1, 2.75, 5.5, 11, 22, (Charpy)0.5, 1, 2, 4, 5/7.5, 15, 25	3.5	
			(Charpy)0.5 , 1, 2, 4, 5/7.5, 15, 25, 50	2.9/3.8	
TEXJC-50	Tensile Impact Tester	Dial (Digital)	15, 25, 50 (150°)	3.8	



Hammers:

All hammers pass exhaustive checking and calibration procedures such as Weight at 90°, Period of swing, Impact length, Vertically at rest, Potential energy, Windage and friction loss, Reduced length, A series of dimensional measures.







Low Temperature Bath for Impact Specimen

Applications:

The device is designed according to Charpy Notch Impact Test Method for Metal Material, and adopt compressor cooling technology, which made up of two sections (Low temperature grade and high temperature grade). It utilizes the heat balance principle and cycle stirring method to realize the constant temperature cooling to impact specimen with the reliable performance.



	DWC-30	DWC-60	DWC-70	DWC-80
Temperature range (℃)	Room to -30	Room to -60	Room to -70	Room to -80
Accuracy (℃)	≤±0.5			
Effective working space (mm)	120×120×80			
Specimen quantity (mm)	More than 60 pcs Specimen dimension: 10×10×55			
Cooling media	Alcohol or others			
Power supply (kw)	1.0	1.5	1.5	2.0
Dimensions (mm)	800×510×480	800×510×750	800×510×480	1200×700×800



TE-UV2 Electric Special Cutting Machine for Notch of Impact Specimen

Applications:

This machine is designed for providing the specimens used in the impact testing tasks.

The machine cut notch which according to the "V" ASTM E23, ISO148 standards, "U" DIN 50115 and ISO83 standards "Charpy Notch Testing Method for Metal Material" on the specimen for only one time. At the same time, it has advantage of high precision, long life, low noise and concise appearance etc.



Specification:

Notch type: V type: 2mmNotch type: U type: 2mm

• Size of Specimen: 10mm×10 (7.5 or 5)mm ×55mm

Travel of cutting knife: 340mmCutting speed: 2.5m/Min

Dim: 600mm×500mm×1200mm

• Power supply: 380V/50Hz or 240V/60Hz

Weight: 150kg



Model CTS-50 Projector

Applications:

Model CTS-50 is a kind of special projector, which amplifies and projects the U or V-shaped profiles of the measured parts to the screen to check their profiles and shapes with high accuracy utilizing the optical projection method. It is widely used to check the U and V-shaped notch impact specimen with the features of easy operation, simple structure, direct inspection and high effectiveness.

Specifications:

Screen diameter: 180mm

Working table: Square shape 110×125mm Round shape 90mm 1

Glass diameter of working table: 70mm

• Working table travel(Length×width×height):±10×10 ±12mm

Rotating range of round working table: 0-360 degree

Magnifications: 50X

Objective magnification: 2.5X
Eye-field diameter: 3.8mm
Working distance: 22.89mm

Light source: tungsten lamp 12v 100W

Dimensions: 515×224×603mm

Weight: Approx. 20kG

Specimen Preparation Equipment

Model CPJ-25 Sheet-punching Machine

 This machine is used for machining test samples, such as nonmetallic soft sheets and thin films. Using various kinds of standard cut-off knives, it can accurately and swiftly work out required samples.

Max. travel: 25mm

Max. Thickness of punching: 2mm

Model ZHY-W Universal Sampling Machine

 This machine is used for machining the standard samples of nonmetallic materials such as plastic and organic glass etc, which are used in the tests of board impact, tension, compression and thermal energy etc. It can mill notches & curves, and can cut & mill the flats.

Max. cutting length: 300mm

Max. cutting thickness: 15mm

Max. length of milling flat: 300mm

 Specs of milling cutter (grinding wheel used of cutting: 200×32×2mm

Cutting length used for milling notch: 60mm









Specs cutter used for milling flat: 30×12×30mm

Model QK-20 Notch Sampling Machine

Dimensions of the cutter

A: 45℃±1℃ R0.25

B: 45°C±1°C R1

C: 2±0.2

Model ZZY-25 Automatic Dumbbell Sampling Machine

This machine can be used to machine dumbbell samples and special grips.

Model ZQK-20 Automatic Notch Sampling Machine

Dimensions of the cutter

A: 45℃±1℃ R0.25

B: 45°C±1°C R1

C: 2±0.2

