IMPACT TESTING MACHINE

HENSGRAND

- HST JB Manual

- HST JB-B Semi Automatic

- HST JBDW-Y Low Temperature

- HST JBDW-D Ultra Low Temperature

- HST JBS-B Touch Screen Display

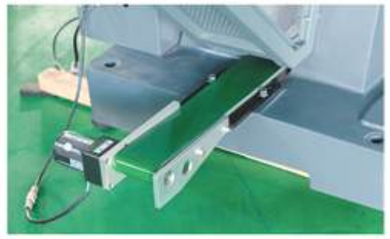
- HST JBSW-C Digital And Computer Display

- HST JBDW-CY Low Temperature

- HST JBDW-CD Ultra Low Temperature

HST-JB SERIES / 150-750J

Pendulum Impact Testing Machine



TECHNICAL SPECIFICATIONS

MODEL	JB-300	JB-300B JBS-300B JBW-300B	JB-500B JBS-500B JBW-500B	JB-300C JBS-300C JBW-300C	JB-450C JBS-450C JBW-450C	JB-750C JBS-750C JBW-750C
Control type	Manual	JB Series Semi-automatic dial display JBS Series Touch screen digital display JBW Series Computer control and display				
Standards	EN-ISO 148, EN-ISO 10045-1, DIN 50115 and ASTM E23					
Impact energy (J)	150,300	150,300	250,500	300	450	750
Impact velocity (m/s)	/	5.2	5.4	5.24	5.24	5.24
Raised angle	135°	150°	150°	150°	150°	150°
Standard span (mm)	40+0.2					
Distance between pendulum rotating center and specimen center (mm)	800	750	800	750	750	750
Round angle of jaws (mm)	R1-1.5((1mm is special order)					
Round angle of striking edge (mm)	R2-2.5 or R8±0.05(8mm is special order)					
Specimen holder support surface angle	11°					
The impact of the blade angle	30°					
The impact blade thickness (mm)	16					
Size of specimen (mm)	55x10x10 , 55x10x7.5 , 55x10x5					
Power supply	Manual	3phs, 380V/220V±10%, 50Hz				
Dimensions (mm)	1000×630×1520	2124×600×1340	230×600×1390	2144 x 736 x 1390	2220×900×2220	2220×900×2220
Gross weight(KG)	320	450	550	750	750	750

HST-JBD SERIES / 150-750J

Low-Temperature Automatic Pendulum Impact Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	JBDS-300D-60/80 JBDW-300D-60/80 JBDS-300D-196 JBDW-300D-196	JBDS-500D-60/80 JBDW-500D-60/80 JBDS-500D-196 JBDW-500D-196	JBDS-300CY-60/80 JBDW-300CY-60/80 JBDS-300CY-196 JBDW-300CY196	JBDS-450CY-60/80 JBDW-450CY-60/80 JBDS-450CY-196 JBDW-450CY-196	JBDS-750CY-60/80 JBDW-750CD-60/80 JBDS-750CY-196 JBDW-750CY-196
Control type	JBDS series: Digital display; JBDW series :Computer control				
Max. impact energy (J)	300	500	300	450	750
The distance between the pendulum shaft and impact point(mm)	750				
Impact speed(m/s)	5.2				
Raised angle	150°				
Standard span(mm)	40+0.2				
Round angle of the jaw(mm)	R1-1.5				
Round angle of impact edge(mm)	R2-2.5,R8±0.05(special order)				
Angle accuracy	0.1°				
Standard specimen dimension(mm)	55x10x10 , 55x10x7.5 , 55x10x5				
Thickness of impact knife(mm)	16				
Dip angle of supporting surface of supports	11°				
Cooling way	-60/80 Series compressor; -196 Series:Liquid nitrogen				
Capacity of sample box	20				
Range of low temperature	-60/80 Series: -60/80°c; -196 Series :-196°c				
Speed of sending specimen	≤2S				
Power supply	3phs, 380V, 50Hz Or 220V,60Hz				

HST-VU SERIES

Charpy Impact Specimen Broacher

APPLICATION

Designed for providing the specimens used in the impact testing tasks. Both manual type and hydraulic type are available to cutting the notch according to the “V” ASTM E23, ISO148 standards,U” DIN 50115 and ISO83 standards “Charpy Notch Impact Test Method for Metal Material” on the specimenfor only one time. At the same time, it has advantages of high precision, long life, low noise and concise appearance etc.

TECHNICAL SPECIFICATIONS

MODEL	HST-VU-1S	HST-VU-2Y
Shape of sample notch	V-shape(2 mm) or U-shape (2mm)	V2 mm,U2mm, (U3mm, U5mm alternative)
Sample size(mm)	10×10×5(or 10×10×7.5,10×10×2.5)	
Cutting mode	Manual	AUTO
Broach material	W18Cr4V	
Broaching Speed	-	2.5m/min
Max. Dimension(mm)	350×350×600	660x500x1240
Weight(kg)	100	200
Power supply	-	380V 50Hz 0.4Kw

HST-CST-50 SERIES

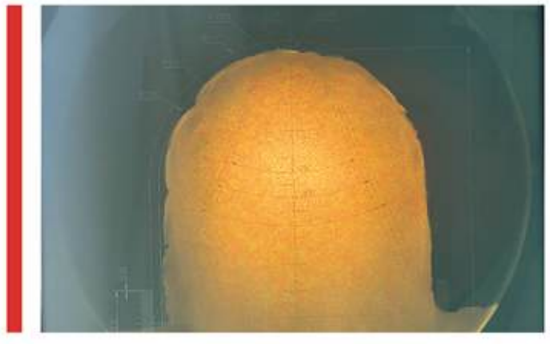
U/V Notch Projector

APPLICATION

Impact specimen U/V notch projector is a supplemental equipment for impact test, which is mainly used to check the accuracy of the impact specimen U/V notch. Users can put the notched specimen on projector working table and compare the projection image with the standard plate to identify the quality of the specimen notch.

TECHNICAL SPECIFICATIONS

MODEL	HST-CST-50
Screen diameter	Φ200mm
Square work table dimension	110*125mm
Round work table dimension	Φ90mm
Work table glass diameter	Φ70mm
Work table rotary range	±10 x ±10 x ±12mm
Instrument Magnifications rate	0°-360°
Objective lens magnification	50*
Projection objective magnification	2.5*
Light source	20*halogen tungsten lamp(DC12V) 100W
Dimension	510*220*600 mm
Weight	18KG
Power supply	AC 220V, 50HZ,150W



HST-DWC SERIES

Impact Testing Low Temperature Chamber

APPLICATION

DWC Series Temperature Chamber is designed according to the standard of 'Charpy Notch Impact Test Method for Metal Materials' and adopts compressor cooling technology, which is 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.

TECHNICAL SPECIFICATIONS

MODEL	DWC-40	DWC-60	DWC-80	DWC-100	DWC-196
Temperature range	+30~-40°	+30~-60°	+30~-80°	+30~-100°	+30~-196°
Temperature Control Accuracy	±0.5°				±2°C
Effective working space (mm)	120×120×80				240×150×150
Specimen dimension	10×10×55mm				
Specimen quantity	More than 60 pcs				
Temperature dropping speed°C/min)	+30°C~0°C 1.2°C/min	+30°C~0°C 2°C/min	+30°C~0°C 2°C/min	+30°C~0°C 2°C/min	2°C ~5°C / min
	0°C~-20°C 0.8°C/MIN	0°C~-20°C 1.5°C/MIN	0°C~-20°C 1.5°C/MIN	0°C~-20°C 1.5°C/MIN	
	-20°C~-40°C 0.5°C/min	-20°C~-40°C 1.0°C/min	-20°C~-60°C 1.0°C/min	-20°C~-40°C 1.0°C/min	
		-40°C~-60°C 0.7°C/min	-60°C~-80°C 0.7°C/min	-60°C~-100°C 0.7°C/min	
Mode of refrigeration	Compressor refrigeration				Liquid nitrogen
Cooling Medium	Ethanol or other unfrozen liquid				

HST-NDT/DWTT SERIES

Drop Weight Impact Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	NDT-2000	NDT-3000	NDT-6000
Maximum Energy(J)	2000	3000	6000
Minimum Energy(J)	300	350	750
Maximum Tup Mass(kg)	70	100	200
Tup Mass Accuracy	±1%		
Drop Height(mm)	750～2915	750～3062	750～3062
Velocity of drop(m/s)	3.8～7.8		
Speed of tap raise(m/s)	7		
Height Accuracy(mm)	≤±10		
Hardness of tup nose	HRC58-62		
Radius Of Tup Nose(mm)	R25.4±0.1		
Sample Centered Error(mm)	±1		
Support Anvil Span	P-1:305, P-2、P-3:100		
Specimen Dimension	P-1:(360±1)×(90±2)×(25±2.5)		
Power Supply	380v±10%,50/60Hz		

APPLICATION

This type of machine is especially designed for drop-weight tear tests of ferritic steels and line pipe.

TECHNICAL SPECIFICATIONS

MODEL	DWTT-20000	DWTT-30000	DWTT-50000	DWTT-800000	DWTT-1000000
Maximum Energy(J)	20000	30000	50000	80000	100000
Minimum Energy(J)	8000	8000	20000	20000	20000
Tup Mass(kg)	630	630	1600	1620	1620
Tup Mass Accuracy	±1%				
Weight mass	120	390	360	780	1380
Weight mass accuracy	±0.5%				
Total weight of tup	750	1020	1960	2400	3000
Drop Height(mm)	1275～2800	1275～3000	1275～2610	1275～3400	1275～3400
Velocity Of Drop(m/s)	5～7.67	5～7.67	5～7.14	5～8.16	5～8.16
Height Accuracy(mm)	≤±10				
Hardness Of Tup Nose	HRC58-62				
Radius Of Tup Nose	R25±0.1mm				
Sample Centered Error	±1mm				
Specimen Dimension	(300±5)*(75±1.5)*(3-50)mm;(305±19)*(76.2±3)*(3-50)mm P-3:(130±1)×(50±1)×(16±0.5)