



## › Pendulum Impact Tester

Integrated touch display (optional)

Data export to PC as EXCEL file from USB data output

Memory to save up to 1000 sample data

Thermal printer for Printing the last test result

### Standards

ASTM D256

ASTM D6110

ISO 179

ISO 180

## › Description

Impact testing is used to determine material behavior at higher deformation speeds. AHP offers a wide range of pendulum Charpy/Izod impact testers for tests according to the relevant test standards. These pendulum Izod/Charpy impact testers cover a range from 0.5 Joules to 50 Joules for plastics testing. These are available with digital touch displays and with a range of different options especially made for your tests (e.g. tensile impact tests for UPVC profiles, ....).

## › Specifications

### Model: AHP-P20HDS.011

Energy	J	5.5J, 11J, 22J (Izod Testing) 2J, 7.5J, 15J, 25J (Charpy Testing)
Span of Charpy	mm	62
Izod testing Impact Speed	m/s	3.5
Radius of striking edge	mm	0.8±0.2
Location of striking edge above top surface of support		22±0.05
Notch A		45°±1° Radius of the notch bottom R=0.25±0.05mm
Notch B		45°±1° Radius of the notch bottom R=1±0.05mm
Charpy testing Impact Speed	m/s	3.8
Radius of striking edge	mm	2±0.5
Angle of striking edge		30°±1°
Notch A		45°±1° Radius of the notch bottom R=0.25±0.05mm
Notch B		45°±1° Radius of the notch bottom R=1±0.05mm
Notch C		45°±1° Radius of the notch bottom R=0.10±0.02mm
Gross Weight	Kg	100
Voltage data		230 V, 50 Hz
0.5J and 1J Pendulum		●
Notch Depth Verification Tool		●
Add on Weights		According to the above mentioned energy ranges

● included ○ available/optional



Notch Depth Verifier Tool  
Model 799



## ➤ Online UPS for Pendulum Impact Tester (Model No. AHP-P20HDS.011)- UPS Model: UPS CAD10KX1-RT-4U

- \* On-line Double Conversion technology
- \* Equipped with high reliability advanced DSP microcontroller Fully digital controlled
- \* IGBT technology or transformerless design
- \* Works in frequency range of  $\pm 3\text{Hz}$  or  $\pm 5\text{Hz}$  (Ability to work with Generator)
- \* Very low output voltage variations about 1% (Good regulation ability)
- \* Ability to remove EMI and RFI noises
- \* Capability of using isolation transformer on the output
- \* Ability to bypass manually
- \* High efficiency

### ➤ Technical Specification

Technology: On Line - Double Conversion  
Transfer time: 0ms  
Charger: Have  
Efficiency: In normal mode: <92%  
Nominal power: 10000VA / 7000Watt

### ➤ Input

Max current: 50A  
Phase: Single Phase  
Frequency:  $50\pm 3\text{Hz}$  /  $\pm 5\text{Hz}$   
Voltage(VAC): 170~270VAC

### ➤ Output

Current: 45.4A at non-linear full load  
Phase: Single Phase  
Nominal power factor: 0.7  
Overload capacity: Up to 125% of nominal power for 10 seconds  
150% of nominal power for 0.4 seconds  
Voltage(Battery): Pure Sine Wave 220VAC  $\pm 1\%$   
THD: <2% at linear load / <5% at non-linear load  
Frequency: In AC mode:  $50\pm 3\text{Hz}$  or  $\pm 5\text{Hz}$  / In battery mode:  $50\pm 0.01\text{Hz}$   
Voltage(AC): Pure Sine Wave 220VAC  $\pm 1\%$

### ➤ Battery

Recharge time: 10 hours for 90% discharge  
Internal battery :Doesn't have  
Voltage: 240VD  
External battery: Special connector to external battery cabinet  
Type: Sealed lead acid batteries with free maintenance

### ➤ Environment

Altitude: 1000 meters max. elevation (Based on IEC 62040)  
Temperature: 0~40°C  
Humidity: 0~80% (Non-condensing)  
Audible noise: at 1 meter from surface: <55dB

### ➤ Dimension[W\*D\*H] (mm)

With base in order to stand on battery cabinet: 192\*687\*440  
Shipping Dimension: 290\*760\*530  
With handle: 177\*720\*490

### ➤ Weight (Kg)

Net weight (Kg): 24.9  
Shipping weight (Kg): 27.5





## › Pendulum Impact Tester Vices & Strikers for Model No. AHP-P20HDS.011

### Vices for Model AHP-P20HDS.011

Standard	Izod-ISO 180 Vise	Charpy-ISO 179 Vise	
Radius	0.2 mm	1.0 mm	
Test Type	Izod	Charpy	
Applicable Standards	ISO 180	ISO 179	

### Striker Pendulums for Model AHP-P20HDS.011

Standard	Izod-ISO 180 5.5J	Izod-ISO 180 11J & 22J	Tensile impact pendulum ISO 8256
Test Type	Izod	Izod	Tensile impact
Applicable Standards	ISO 180	ISO 180	ISO 8256
Impact Energy	5.5J	11J & 22J	15J
Radius of Striker Edge	0.8mm	0.8mm	
Impact Velocity	3.46 m/s	3.46 m/s	

Standard	Charpy-ISO 179 0.5J	Charpy-ISO 179 1J	Charpy-ISO 179 2J	Charpy-ISO 179 7.5J	Charpy-ISO 179 15J	Charpy-ISO 179 25J
Test Type	Charpy	Charpy	Charpy	Charpy	Charpy	Charpy
Applicable Standards	ISO 179	ISO 179	ISO 179	ISO 179	ISO 179	ISO 179
Impact Energy	0.5J	1J	2J	7.5J	15J	25J
Radius of Striker Edge	2.0mm	2.0mm	2.0mm	2.0mm	2.0mm	2.0mm
Impact Velocity	2.9 m/s	2.9 m/s	2.9 m/s	2.9 m/s	2.9 m/s	2.9 m/s



## › Deep Freezer for Pendulum Impact Tester

### › Description

Laboratory Freezers for the low-temperature storage of temperature-sensitive preparations under optimum temperature conditions.

### › Specifications

Operating temperature	°C	RT...-30
Spatial temperature constancy	°C	±1.5
Temporal temperature constancy	°C	±0.5
Digital temperature display		●
Usable space	l	55
Stainless steel cabin		●
Shelves		2
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity		Max. 70%, non-condensing
Width (internal)	mm	470
Depth (internal)	mm	310
Height (internal)	mm	440
Width (external)	mm	620
Depth (external)	mm	450
Height (external)	mm	730
Weight	kg	40
Voltage data		230 V, 50 Hz

● included    ○ available/optional

