



PORTABLE HARDNESS TESTER TPU-1 PASSPORT



Calibration ISO 17025:2017

ISO 9001
BUREAU VERITAS
Certification



ISO 9001:2015



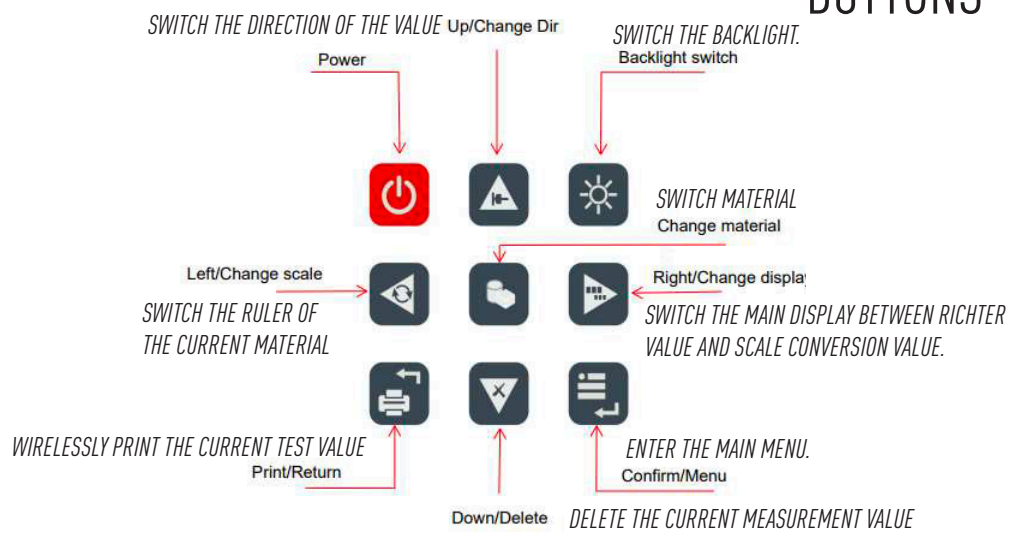
SPECIFICATION

Impact type	D, DC, DL, D+15, C, G
Scales	HV, HB, HRA, HRB, HRC, HSD, MPA
Accuracy	±5 HL
Internal memory	500 values
Display	160x128 TFT LCD with backlight
Rockwell Scales	HRA, HRB, HRC
Connection	USB Type-C
Power supply	3xAAA battery
Dimensions	154mm×82mm×26 mm
Weight	0,25 Kg

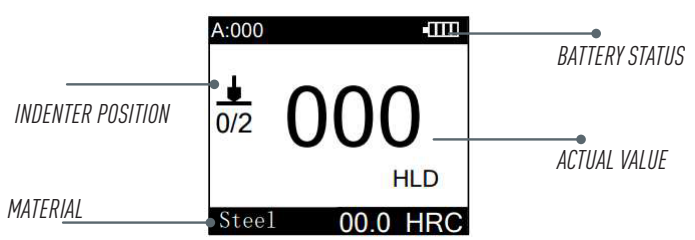
ACCESSORIES LIST

- TPU-1 indication block 1pcs
- Impact type D 1pc.
- Calibration block 1pc.
- USB cable 1pcs
- Passport 1pc.
- Certificate of calibration 1pc.
- Plastic box 1pc.

BUTTONS



MAIN SCREEN





menu	
Measurement	
Data	
System	
Calibration	
09:00	

Measurement	
Material	Points
Scale	Tolerance
Impact dir	Groups

Data	
Browse	Upload
Print all	Delete all
Print data	Delete data

System	
Time/Data	Backlight
Language	Power off
Sensor type	Information

Cal scale			
HL	HB	HRB	HV
HRC	HSD	HRA	

Cal material	
Steel &Cast Steel	
Alloy Tool Steel	
Stainless Steel	
Grey Cast Iron	
Ductile Iron	1/2

Select scale and material of the calibration block.

Measurement: fine adjustments for measurement.

Data: browse, print, or upload the stored data.

System: adjust the usage environment.

Calibration: Carry out product calibration

Material:The material selection of the current impact device.

Scale: The scale selection of the current material.

Impact dir: Switch the direction of impact of the impact device.

Points: Set the number of measurement values to be saved as a group.

Tolerance: set the allowable range of the hitting value or alarm.

Groups: Give the work piece the current measured value.

Browse: View the specific information of the saved data.

Upload: Upload all currently saved data to the computer.

Print all: Print all the data currently saved.

Print data: Print the required part of the currently saved data.

Delete all: Delete all the currently saved data.

Delete data: Delete part of the currently saved data.

Time: Set the system time and press the confirm key to save.

Language: select language

Sensor type: Select the sensor type manually or automatically.

Backlight: Set the backlight on and off and the screen rest time.

Power off: Set the time for automatic shutdown when there is no operation.

Information: Check the machine serial number and software version.

SPICEMENT PREPARATION

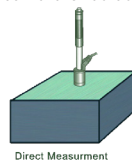
- The surface roughness requirements of the test surface $Ra < 1.6$ (for Impact type D)

- Mass requirements for Leeb test with Impact D:

Direct measurement $> 5\text{kg}$; Clamping measurement $2\text{--}5\text{kg}$; Coupling measurement $0.05\text{--}2\text{kg}$.

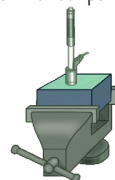
- When the test surface of the sample is not flat, the surface curvature radius of the test point and the adjacent area should be greater than 30mm .

D/DC
DL
D+15
C



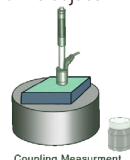
Direct Measurement

D/DC, D+15, DL $> 5\text{kg}$



Clamping Measurement

$2\text{--}5\text{kg}$



Coupling Measurement

$0.05\text{--}2\text{kg}$



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