

Portable Rebound Hardness Testers

QH5 Series

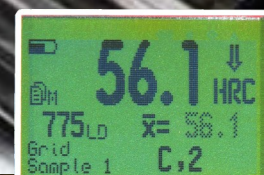
Type Leeb Metal Hardness Testers

The QH5 Portable Hardness Testers from Demeq are small, robust, precise, repetitive, and easy to use. They operate on the Leeb dynamic method and are used to measure the hardness in most metals including steel, cast steel, alloy tool steel, stainless steel, grey cast iron, spheroid iron, cast aluminum, brass, bronze and wrought copper. Demeq is the only company that offers *Cal-Tag technology* in all of our impact devices so that they can easily be changed with no need to calibrate the unit.

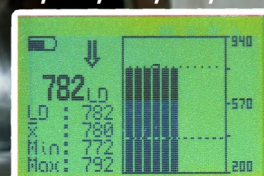
Applications

- Take the unit to the material or test piece
- Identify and classify materials in stock
- Measure in hard to reach areas
- Conduct tests during production
- Check large or heavy parts on-site
- Measure on flat as well as on curved surfaces

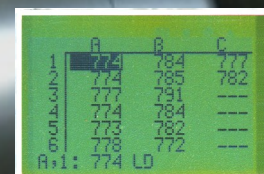
Measuring Screens



Automatic conversion to multiple hardness units including: HRC, HRB, HRA, HB, HV, HS, Rm



Graphic histogram representations with real time alarms and statistics



Memory to store 32000 + values including statistical data, organized in files with editable names.

Outstanding Features

- Meets ASTM A-956 standards
- Converts from HL to selected hardness units
- Accuracy of $\pm 4HL$ (0.5% at 800HL)
- Impact devices can be used in all directions
- Cal-Tag to easily switch impact devices
- Histogram graphical representations
- High impact ABS enclosure w/ rubber sides
- Sleek design with a Touch-Sense front panel
- Quick access key (angle, hardness unit)
- Connect to PC via USB or RS232 (optional)
- DataCenter software included
- Model upgrade licenses

QH5 Series

Models

Demeq QH5 Series instruments meet ASTM A-956 standards

QH5 D

Type D

- D DC** Type D impact device
- Graph** Histogram graphics
- Real time stats.**
- Alarms**
- USB** USB to connect to PC

QH5 M

Multiple-Devices

- D DC C DL E G** All Demeq impact devices
- Graph** Histogram graphics
- Real time stats.**
- Alarms**
- USB** USB to connect to PC

QH5 G

Type G

- G** Type G impact device
- Graph** Histogram graphics
- Real time stats.**
- Alarms**
- USB** USB to connect to PC

Model Selection Chart

QH5 Model		QH5 M				
IMPACT DEVICE TYPE		QH5 D				QH5 G
METALS	HARDNESS UNITS	D DC	C	DL	E	G
Steel and Cast Steel:			HARDNESS RANGES			
	Brinell (HB)	81-663	81-646	80-683	83-663	90-646
	Vickers (HV)	81-996	80-950	80-996	84-1211	—
	Rockwell C (HRC)	20-72	21-68	20-70	22-70	—
	Rockwell B (HRB)	37-100	37-100	—	—	48-100
	Rockwell A (HRA)	—	—	—	62-88	—
	Shore (HS)	32-100	—	32-99	36-102	—
	Rm (N/mm2)	275-2194	275-2297	275-2194	283-2195	305-2194
Alloy Tool Steel:						
	Vickers (HV)	80-898	—	—	—	—
	Rockwell C (HRC)	20-67	—	—	—	—
Stainless Steel:						
	Brinell (HB)	85-655	—	—	—	—
	Vickers (HV)	85-802	—	—	—	—
	Rockwell C (HRC)	20-62	—	—	—	—
	Rockwell B (HRB)	46-102	—	—	—	—
Grey Cast Iron:						
	Brinell (HB)	92-334	—	—	—	92-326
Spheroid Iron:						
	Brinell (HB)	127-387	—	—	—	127-364
Cast Aluminum:						
	Brinell (HB)	19-160	—	—	—	—
Brass:						
	Brinell (HB)	40-173	—	—	—	—
	Rockwell B (HRB)	14-95	—	—	—	—
Copper:						
	Brinell (HB)	45-315	—	—	—	—
Bronze:						
	Brinell (HB)	60-290	—	—	—	—

Technical Specifications

Measurement

Method: Leeb rebound method
Resolution: 1 HL - 1 HB - 1HV - 0.1HRC - 0.1 HRB - 0.1 HRB - 0.1 HS - 1 N/mm2
Accuracy: ± 4 HL (0.5% at 800 HL)
Measuring range: HL 150 - 960
Impact angles: 0°, 45°, 90°, 135°, 180°.

Features

Histogram: 3 to 18 bars
Statistics: Medium, Max, Min, Std Dev, Range
User units: HU-1, HU-2 user generated
Clock: Time and date registration
Alarms: High and Low

Screen

Backlight: LED (ON, OFF, AUTO)
LCD: Graphics 128 x 64 px
Contrast: Digital and adjustable

Data Logger

Capacity: 32000 + values
Organization: Up to 8 files with alphanumeric names
Capture modes: Manual and Automatic

Connection to PC

Connection: USB native or RS232 (optional cable)
Updates: Software and models (licenses)

Electronic unit

Dimensions: 78 x 117 x 24 mm
Weight: 200g with batteries
Working Temperature: -10° to +50°C
Enclosure: High impact ABS

Power Supply

Batteries: 2 x AA 1.5v
Operation: 120 hours w/ backlight off
Shutdown: Manual, Auto or Continuous

Demeq DataCenter Software

DataCenter is a universal program developed by Demeq that is used to download and process data stored in the unit memory can be transferred to a PC via USB. With the tools in DataCenter you can generate statistics, graphics, export values to other programs, and prepare custom reports among other things. DataCenter is also used to download unit software updates at no charge.



Presentation

- QH5 Electronic Unit
- Impact Device
- Test Block
- Coupling Paste
- USB Cable
- CD with DataCenter Software
- Printed User Manual
- High Impact Carrying Case
- Certificate of Conformity

