













# Portable "Heavy-Duty" Hardness Tester Leeb + UCI

Cover the widest range of applications combining Leeb and UCI methods of hardness testing. Measure small parts with UCI and get faster and accurate measures in Leeb with our GyroTag technology that automatically corrects the impact angle.

A robust design in a high resistance aluminum enclosure with a large display and the ability to support all impact device types and UCI probes makes the QH7 Series the most complete and advanced option in the dmq QH Family of portable metal hardness testers.



-  Measure with the Leeb (rebound) method <sup>1</sup>
-  Measure with the UCI method <sup>1</sup>
-  GyroTag: Auto impact device angle detection
-  Accepts all impact device types
-  Accepts 10, 50 and 98N UCI probes
-  Measures in the most popular units
-  High resistance aluminum enclosure
-  Operates on rechargeable batteries
-  Memory for 32000 readings
-  USB and RS232 for data transfer
-  **5 year limited warranty** <sup>2</sup>
-  **The best post-sale support**

1. Depending on model, / 2. On the electronic unit.

## Ideal for measurement and control of...

Massive parts. Heat Affected Zones (HAZ)

Founded, forged or rough finished parts

Steel and aluminum alloys

Heat treated or superficial treatments

## Impact devices With GyroTag



**Type D impact device:** General use impact device that offers the widest ranges in all hardness units and available materials.



**Type DC impact device:** Type D impact device with a short body, ideal for measurements in reduced spaces.



**Type C impact device:** A low impact energy produces a smaller indentation. Ideal for measure superficial heat treatment and small parts.



**Type G impact device:** Ideal for measurements on rough surfaces with little preparation. Recommended for large, founded and forged parts.



**Type DL impact device:** Features a 50 mm long tip and 4 mm diameter. Ideal to measure in hard to reach places such as grooves and gears.



**Type E impact device:** Ideal for measuring high hardness (up to 1200HV). This is the best option to measure hardened steel or parts with similar treatments.

**Range:** HL 150 - 960

**Accuracy:** ±4HL (0.5% at 800HL)



**10N UCI Probe:** Ideal to measure superficial hardness, polished surfaces and small parts with a good finish.



**50 N UCI probe:** Measure induction or cemented treated parts such as crankshafts, gears, welds and heat affected zones.



**98 N UCI probe:** Recommended for use in founded parts, weld seams and heat affected zones even in unmachined surfaces.

**Range:** HV 100 - 950

**Accuracy:** ±5% in the entire HV measuring range

## UCI Probes With CaTag



## Models



Models



Leeb (Rebound)



UCI (Ultrasonic Contact Impedance)

QH7 L



QH7 U



QH7 C



### DIMENSIONS



197 x 111 x 65mm  
(7.7 x 4.4 x 2.6in)

### WEIGHT



998g  
(2.20lbs)

### POWER



Battery: rechargeable by USB  
Battery life: 20 Hours<sup>3</sup>

### INTERNATIONAL STANDARDS<sup>4</sup>



ASTM A956  
ASTM A1038



ASTM E140  
CE Marking

### HARDNESS UNITS

**HL HB HV  
HRB HRC  
HS N/mm<sup>2</sup>**

Leeb Rockwell C  
Vickers Rockwell B  
Brinell MPa  
Shore User Units<sup>5</sup>

### MATERIALS



Steel Stainless  
Aluminum Copper  
Grey Cast Iron Bronze  
Nodular Cast Iron Brasst

3. Display light off.

4. According to model.

5. User can set units for measuring materials not included in equipment list.

## Ready to use

Delivered in a high impact carrying case, inside you will find:

- 1 QH7 electronic unit
- 2 Impact device<sup>6</sup>
- 3 UCI probe<sup>7</sup>
- 4 Reference test block<sup>8</sup>
- 5 Coupling paste for parts
- 6 USB cable to connect to a PC
- 7 Battery charger
- 8 Pendrive with dmq DataCenter software and user manual
- 9 Certificate of conformity

6. In QH7 L and QH7 C models

7. In QH7 U and QH7 C models

8. Depends on the model



## dmq DataCenter

It's our acquisition software for PC that allows to receive, process and export the data stored in our equipment with datalogger.

DataCenter is available for download from our website at no additional cost.



Transfer data to your PC



View measurements



Create graphics



Analyze data



Export to other programs



Generate and print reports



dmq DataCenter

Available for  Windows XP / 7 / 8 / 10  
in [www.demeq.com/datacenter](http://www.demeq.com/datacenter)



# QH Family

## Portable Metal Hardness Testers



**dmq** | Measure  
+ Control

Instruments developed and manufactured by DMEQ

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