

# Portable UCI Hardness Tester

## QH5 U

### Also for small parts...

The NEW QH5 U is a metal hardness tester that operates on the UCI or Ultrasonic Contact Impedance method allowing precise and repetitive measurements on thin and light parts as well as on larger parts leaving a footprint that is practically not visible. The QH5 U measures in the most common hardness units and it includes a memory to store measurements that can then be transferred to a PC.



### Applications

Thin parts

Flat and curved surfaces

Gear teeth

Tubes and pipes

Heat Affected Zones



### Main Features

- Conversions by E 140 and DIN 50150 standards
- UCI method standards DIN 50159 and ASTM A1038
- Probes with 10N and 50N loads
- Vickers indentation
- CalTag technology in all probes
- Graphics representations and statistics
- High impact ABS enclosure
- Tactile keypad with no mechanical parts
- Transfer data via USB
- dmq DataCenter software

## How to choose the right QH5 for your application...

Application	QH5 U (UCI method)	QH5 M (Leeb method)
Heavy solid parts	+	++
Founded or forged	O	++
Steel as well as aluminum alloys	O	++
Weld Heat Affected Zones	++	O
Tubes and pipes	++	O
Bars	++	+
Metal plates and sheet metal coils	++	+
Non-homogenous surfaces	O	++
Thin parts	++	+
++ ideal	+ depends on actual part	O not recommended

## Technical Specifications

Method	UCI - ultrasonic contact impedance
Materials	Steel. Other metals using calibration blocks..
Special materials	Up to 8 user defined materials
Resolution	1HV - 0,1HRC - 0,1HRB - 1HB - 0,1HS - 1N/mm2 (Mechanical Strength)
Measuring range	Vickers 230 to 940HV
Conversions	Rockwell C: 20~68HRC - Rockwell B: 60~100HRB Brinell: 226~620HB - Shore: 32~97HS Mechanical Resistance: 320~2190MPa
Accuracy	5% maximum tolerance in Vickers
Maximum roughness	1.5Ra (10N) - 2,5Ra (50N)
Minimum thickness	3mm
Minimum mass	300g
Alarms	Minimum / maximum
Memory	32000 values
Organization	Up to 8 files with names
Connection to PC	Via USB
Batteries	2 x AA 1,5v batteries
Battery life	100 hours backlight off
Working temperature	0° to +40°C
Weight	200g with batteries

## Presentation

- QH5 electronic unit
  - UCI probe
  - Printed user manual
  - CD with dmq DataCenter
  - USB cable to connect to a PC
  - High impact carrying case
  - Certificate of conformity
- Ask about test blocks**



## Software dmq DataCenter

DataCenter is software used to transfer and process data stored in the unit memory. With the tools in DataCenter you can generate statistics, graphics, export data to other programs and prepare custom reports.

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