



alphaDUR III

portable UCI hardness tester

- fast and easy hardness testing
- clear user interface with function keys
- measuring method according to DIN 50159 and ASTM A1038
- conversion according to EN ISO 18265 and ASTM E140
- robust metal casing
- individual material calibrations
- extensive storage and statistical functions
- applicable for automated measurements

Hardness testing



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The alphaDUR III has proved it's worth as a reliable and versatile hardness tester since many years. It can be employed from simple manual measurements to fully automated production testing. The operation of the alphaDUR III is very easy because all information is shown on the large display. Hardness scale and material can quickly be changed by context-sensitive function keys.

Measurements can be done fast and accurate. The measured value is displayed directly after the test load has been applied. A test load between 0.3 and 10 kg can be chosen depending on the application and the sample surface.

Technical data:

Hardness scale:	Vickers (HV), Brinell (HB), Rockwell (HRC, HRB, HRA, HRD, HRE, HRF), Super Rockwell (HR45N), Knoop (HK), tensile strength (N/mm ²)
Test load:	0.3 and 10 kg, depending on the UCI probe
Display:	3.5"-TFT-LCD colour display, 480 x 640 pixels
Interface:	5V DC (charging); USB-C (secondary charging and data transfer); socket for probe cable (CAN)
Memory:	2 GB RAM, 32 GB eMMC-flash-memory
Statistics:	average value, minimum, maximum, standard deviation
Battery:	Integrated lithium-ion battery with 6800 mAh, operating time approx. 10 h, charging time approx. 4 h (from 10 to 80 % when switched off)
Dimensions:	98 x 196 x 160 mm (h x w x d)
Weight:	1395 g

The minimum sample thickness starts at approx. 5 mm, depending on the dimension and the shape of the sample

Scope of delivery:

Basic device with built-in battery, connection cable and calibration certificate, power supply/battery charger, case and manual on USB flash drive

Optional accessories:

Probe support for flat and curved surfaces, high precision stand, probe handle, special probe SL for measurements at location difficult to access, certified UCI hardness test blocks (Ø 90 x 16 mm), SPS-interface for automated testing

Application range:

Incoming goods inspection. Hardness testing of metals in production. Testing of machine parts, weld seams, coatings and hardened parts even at difficult to access locations and at any angle. Fully automated SPS driven hardness testing in production



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