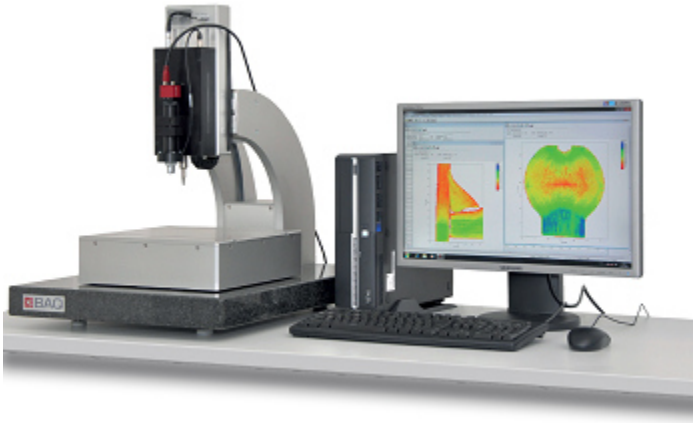
HARDNESS SCANNER
UT-200

STANDARDS

ASTM A1038, DIN 50159

The UT200 is a universally usable, fully automated Hardness tester. The Die computer-controlled positioning offers the possibility for hardness testing on lines and surfaces as well as the fast and automated testing of numerous pieces in the production or the receiving area.



The combination of a fast, electric hardness testing procedure with a CNC-Machine for positioning and a comfortable windows-program offers new possibilities for material testing. The UT200 delivers results, which go beyond the conventional hardness testing. Besides serial measuring and line scans the inspection of the hardness on huge surfaces is in the focus.

The measuring of several thousand hardness values is done in short time and the summary of the values in a colored graph shows very well the structure in weld seans or the area from the base material to the hardened area.

The test load for this measurement can be adjusted to the material and the desired distance of the test indentation. The indenter is a vickers diamond. Many years well established UCI-procedure ensures a precise and automated determination of the hardness values.

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With the integrated function, the results can be shown as chart, histogram, line scan or colored hardness progress and printed for documentation. The graphics can be used by other programs as Bitmap.

Besides these applications, which are very interesting for research and development, the machine can be used for constantly recurring testing of identical parts as well. Programmability and promptness are the key advantages.

FEATURES

- Fully automated hardness testing
- Hardness distribution on surfaces
- Very quick through UCI measurement procedure
- Testing according to DIN 50159 and ASTM A1038
- HV 0,1 – HV 2
- CHD-, SHD-, NCD- and In-Line-Measurements
- Automated recording of different surfaces and lines
- Testing of up to 20 Specimen with only one automated procedure

TECHNICAL PARAMETER

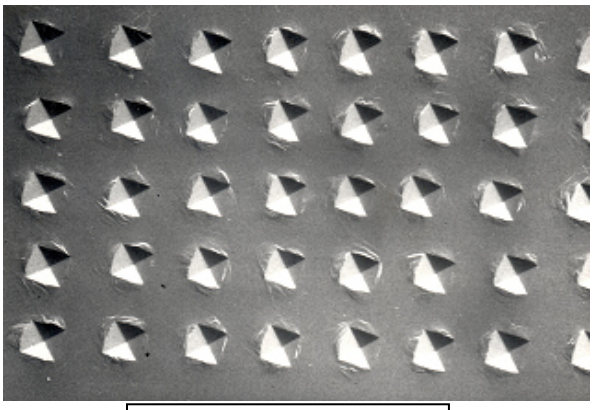
Item	Parameter
Test load scale	HV 0,1 to HV 2
Hardness scales	HV, HRC, HB and Tensile strength
Sample table	330 x 330 mm
Travel range (X, Y, Z)	140 x 140 x 90 mm
Repeat accuracy	± 0,01 mm
maximal specimen height	105 mm
minimal specimen height	35 mm in HV 2
Optic	Centering microscope with camera
Lightning	Adjustable LED-Ring light

DELIVERY SCOPE

- Hardness Scanner ready-to-use with high-performance PC
- Software
- Manual

OPTIONAL ACCESSORIES

- Software option Multiple measurements on surface
- Software option Rings and Circles
- Software option Curve
- Software option Polygon
- Software option Multiple material calibration
- Additional evaluation program
- Different Clamping devices



UT-200 INDENTATIONS

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