KB 150 R Rockwell

Hardness Testing from 0,2 kg - 250 kg



KB 150 R

KB 150 R

Rockwell
Super Rockwell
Hardness Testing Machine

Testing Machine with Depth Measurement

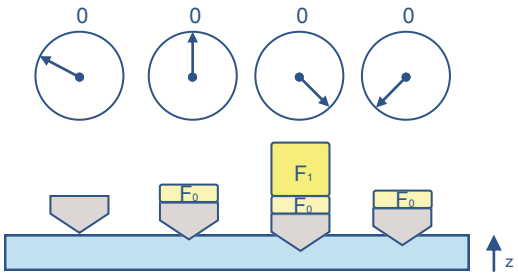
KB 150 R - The Rockwell Specialist



- Customized settings
- Motor controlled load application

Standard Accessories

- Bright color LCD discplay
- 200 free adjustable test programs
- Spindle protection
- Clamping head with flexible holding down devices
- Elevation screw with hand wheel
- Standard load range 0,5-150 kgf
- Convertion tables acc. to DIN EN ISO 18265 (without copper) and DIN 50150



The superior hardness testing machine of KB Prüftechnik, Germany, test samples acc. to Rockwell with an **extremely high Rockwell resolution of 0.0125 HRC.**

Every single Rockwell testing procedure can be calibrated by the operator. The Rockwell testing procedures have to be calibrated after an indenter change to reduce the indenter-dependent influence on the test value. The Rockwell calibration is protected from other oper-

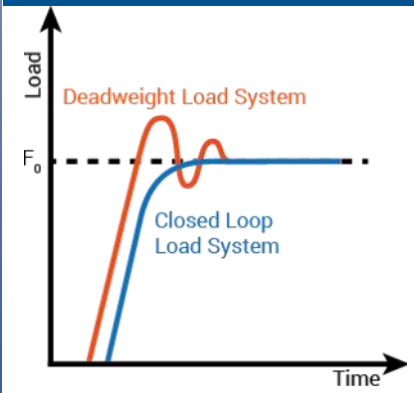
Test Procedures (controlled by one load cell)

Rockwell acc. to DIN EN ISO 6508, ASTM D 785 und

HRA- HRB- HRC- HRD- HRE- HRF- HRG- HRH- HRK- HRL- HRM- HRP- HRR- HRS- HRV	HR 15/ 30/ 45 W
HR 15/ 30/ 45 N	HR 15/ 30/ 45 X
HR 15/ 30/ 45 T	HR 15/ 30/ 45 Y

Ball indentation hardness acc. to DIN ISO 2039 T1 for

Closed Loop Load Application



Systematically comparison deadweight to load controlled system

Due to the closed loop system the KB 150 R achieves a high precision test load range from 0,2 - 250 kgf without load variation.

Maximum precision:

The KB hardness testing machines apply the load controlled by a closed loop system. The **controlled load application** provides more accurate loads compared to a position controlled load application because the load will be supervised during the complete test procedure.

Load application time: Flexible and according to the standard

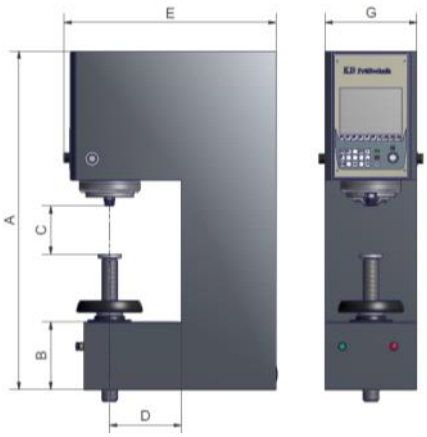
The application and the dwell time can be individually adjusted.

Advantages compared to the deadweight system:

In the closed loop system the test load which is applied on the indenter will be constantly meas-

Machine Dimensions - indication in [mm]

	KB 150 Standard	KB 150 Art. No.: 1228	KB 150 Art. No.: 1630	KB 150 Art. No.: 1394
A	1180	1430	1638	1738
B	232	232	232	232
C Test room height	**320***	**560***	**700**	**800***
D	250	250	250	250
E	735	735	735	735
G	362	362	362	362
Weight	215 kg	230 kg	240 kg	245 kg



*Test room height without spindle protection, special size available on request.

Test room height C including standard table Ø 80 mm.

Accessories

Heat Exchanger

- For surrounding temperatures over 30°C
- For dirty enviroment

Indenters

We do offer a huge variation of indenters. Please contact our sales or service department for any help.



Supports

Please contact our sales or service department concerning your special projects. We would like to help



Test Room Extension

Test room extension to 560 mm

Test room extension to 700 mm

Jominy Test Procedure - The End Quench Test

The Jominy test method, also known as end quench test, determines the hardenability of a material. Therefore a cylindrical sample (L: 100mm, Ø: 25mm) is heated until it reaches a temperature in the austenitic region. After a defined time the heated sample is quenched with a water jet on the front edge.

To test the sample, it needs to be slightly grinded in longitudinal direction. The hardness is measured alongside the test area. The hardenability



Art. Nr.: Software option

KB Hardwin XL Jominy

2 samples: Sample holder + X/ Y– table 180x180

5 samples: Sample holder + X/ Y– table 300x200

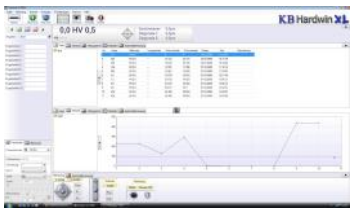
KB Hardwin XL Basic: Data Management

Operating System

HardWin XL supports Windows XP, Vista (32bit) and 7 (32bit/ 64 bit). The use of a PC makes KB HardWin XL network– compatible.

Data View

All important information to the test order on **one**



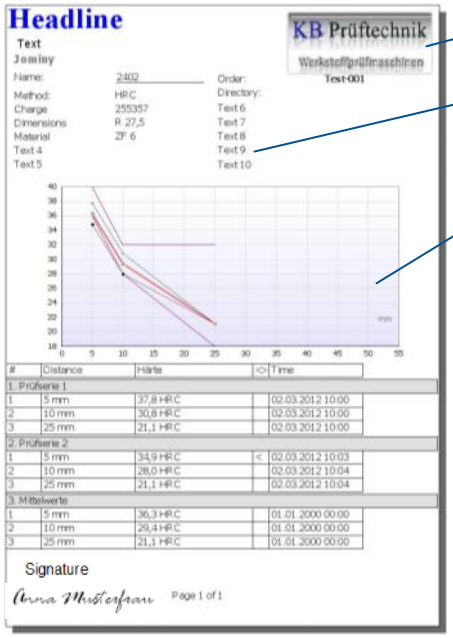
Data Management

The data export is supported by **text (txt), Word, PDF, html or Excel** Data. Handling with SAP or Ac-

Scanner

KB Hardwin XL supports bar code scanner as well as QR code scanner. Thus the sample information can be

Beispiel eines möglichen Druckprotokolls



Customized logos can be embedded

Number and content of the property labels are freely

Diagramme, Verläufe und Statistiken können in das

The test report can be freely adjusted with the help of the report generator.

All software packets of KB Hardwin XL include the report generator. Special test report types can be programmed on request.

The test reports can also be programmed by the operator if required.

The file format of the report can be chosen between PDF, Excel, RTF, JPEG, PNG, TTY, CSV, XML etc.

Your Representative



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