



**KB 150 R Rockwell  
Hardness Testing from 0,2 kg - 250 kg**



**KB 150 R**

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**Rockwell  
Super Rockwell  
Hardness Testing Machine**

**Testing Machine with  
Depth Measurement**

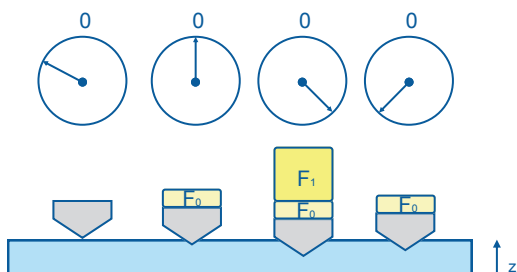
## KB 150 R - The Rockwell Specialist



- Customized settings
- Motor controlled load application

### Standard Accessories

- Bright color LCD display
- 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
- Conversion 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)



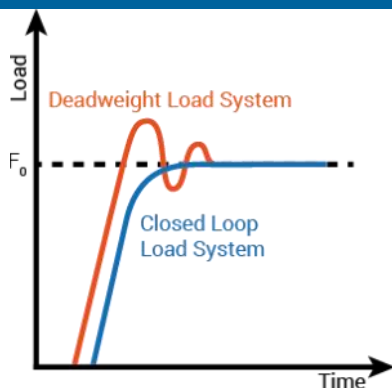
**Rockwell** acc. to DIN EN ISO 6508, ASTM D 785 und



**Ball indentation hardness** acc. to DIN ISO 2039 T1 for

HRA- HRB- HRC- HRD- HRE- HRF- HRG- HRH-	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

## 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]**

	<b>KB 150</b> Standard	<b>KB 150</b> Art. No.: 1228	<b>KB 150</b> Art. No.: 1630	<b>KB 150</b> Art. No.: 1394
<b>A</b>	1180	1180	1180	1180
<b>B</b>	232	232	232	232
<b>C</b>	<b>320*</b>	<b>560*</b>	<b>700</b>	<b>800*</b>
<b>D</b>	250	250	250	250
<b>E</b>	735	735	735	735
<b>G</b>	362	362	362	362
<b>Weight</b>	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 environment



**Supports**

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



**Indenters**

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

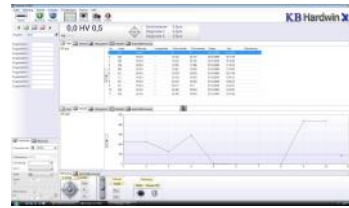


### Data Management

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

### Data View

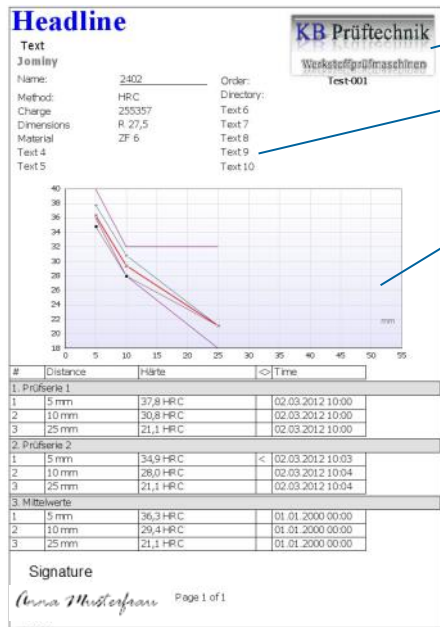
All important information to the test order on **one**



### 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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