

Digital Rockwell-testing-Machine KB – 150 R



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- Bright LCD – Farbdisplay
- Flexible software control
- motorized load system with load cell, closed loop system
- extremely flexible machine
- 200 free adjustable test programs
- 3 selectable languages D – F - E

Machine discription

KB hardness testing machines are produced in Germany and are renown for their solid construction and reliability. User friendly operations built into the machines will give the operator confidence in achieving high levels of repeatability and accuracy.

KB Universal hardness testing machines designed for automatic hardness tests and conform fully to International standards such as DIN EN, ISO and ASTM. They able to work within a load range from 1 to 250 (kgf). For Rockwell, Superficial-Rockwell, as well as Ball Indentation Hardness (for plastics) and depth Measurement for Vickers and Brinell. The machines offer a fully automatic test procedure. All hardness values are immediately displayed in digital form. All test loads are controlled by a high sensitive load cell, closed-loop measuring system.

Powerful programmable panel with integrated colour LCD - monitor easy to use, rich in contrast and nearly blind free. No parallax error in measurement of indenting points. Optional the video image can be stored, on a separate PC, as a bmp-data file.

- **Optional Soft- and Hardware Equipment**

All KB hardness testing machines will be delivered with a set of Standard equipment, that make it sure, that the user can start immediately the Test's. Connecting through a PC or a Host Server is always possible with KB hardness testing machines. We offer different standard solutions in Software. Also is a wide range of Test platforms, fixing units, Indenters, objectives and test Blocks available.

Technical Data

Test procedure according to international standards	Rockwell	DIN EN ISO 6508 A – B – C – D – E – F – G – H – H – K – N – T
	Ball Indentation DIN ISO 2039 T1 (for plastics)	
Test procedure out of international standards	Vickers	Depth measurement HVT 30 – 50 – 100 - 120
	Brinell	Depth measurement HBT 2,5/62,5 - 2,5/187,5 - 5/250
	Rockwell	Macro HMR 5/250
Loadsteps kgf	Vickers	30 - 40 - 50 - 60 - 80 – 100 – 120
	Brinell	31,25 62,5 - 187,5 – 250
	Rockwell	15 – 30 – 45 - 60 – 100 – 150 Preload 3 – 10
	Ball Indentation	5 -
Indentors	Vickers	diamond pyramid 136°
	Brinell	Ball, 2,5 mm - 5 mm
	Rockwell	diamond cone 120° und Ball
	Ball Indentation	Ball, 5 mm
Load application	Motorized controlled by a high sensitive load cell in a closed-loop measuring system. Resolution of the amplifier ± 220000 Digits	
Load selection	Automatic via digital display	

User functions

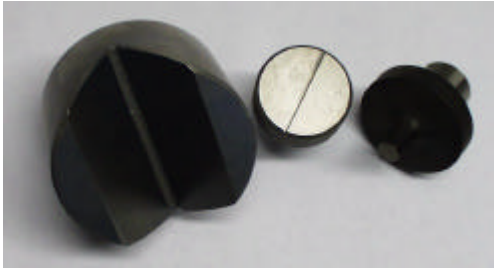
- Test sequence initiated by push-button
- Programmable digital panel with these functions:
 - Easy to use, logical inputs
 - Free programming and storing of up to 200 test programs
 - Automatically test load selection by a simple choose of a test procedure only
 - Free programmable applying times of test loads
 - Free programmable dwell times of test loads
 - Input of text fields, via external keyboard
 - Free definable users instructions for every test program
 - Online help
 - Automatically correction for round surfaces according to DIN EN ISO
 - Control of the fully automated test procedures
 - Direct, digital hardness value display
 - Tolerance indication
 - Conversions according to DIN 50150, table A1
 - Print out of results in DIN A 4 format. Direct printer connection possible
 - without any additional cards etc.
 - 3 selectable languages D – E – F
(more languages available on request and per option)
- Statistical functions as:
 - Number of measurements
 - Min / Max
 - Mean value
 - Range
 - Standard deviation
 - cp / cpk
 - Histogram

Standard equipment	• Gear-motorized jerk free load application • Interface RS 232 (bi-directional) and parallel port • Spindle protection with shroud • Clamping head • Test platform flat 80 mm Ø • Elevation screw with hand wheel • Spirit-Level for accurate vertical installation • box for spares • Instruction manual with hardness tables • Works certificate	
Test high - throat	mm	300 - 250
Power supply	V / Hz	240 V / 50 Hz
Dimensions (H x B x D)	mm	
Weight net	Kg	190
Colour	Structure colour RAL 9010 white (other colors as option)	

Terms of delivery

Works certificate	The machine will be calibrate with DKD calibrated measurement equipment, a works certificate is included
Terms of delivery	ex works + VAT Without installation and training Packing cost .-€
Delivery time	8 – 10 weeks after Order
Terms of payment	through irrevocable letter of credit, to be opened through Stadtsparkasse Schifferstadt
Warranty	12 month, 14 month after delivering

Optional equipment

	Articel-No	Discription
	387	Vickers diamond pyramid 136° with certificate
	840	Rockwell diamond cone 120° with certificate
	420	Indentor with Hard metall ball Ø 2,5 mm and certificate
	621	Indentor with hard metall ball Ø 5 mm and certificate
	470	Indentor with hard metall ball Ø 1/16 Zoll and certificate
	762	Indentor with hard metall ball Ø 1/8 Zoll and certificate
	1039	Flat table Ø 235 mm with thread
	1033	anvil for round components Ø 1 – 4 mm
	1028	anvil for round components Ø 3 – 10 mm
	1029	anvil for round components Ø 7 – 20 mm
	1030	anvil for round components Ø 15 – 45 mm
	1031	anvil for round components Ø 20 – 60 mm
	1032	anvil for round components Ø 50 – 150 mm

 Triangle Testblocks	742	Test block with certificate HRC 30
	742	Test block with certificate HRC 60
	488	Test block with certificate HRB
	742	Test block with certificate HRA
		Wooden box for 5 triangle test blocks, 70x70 mm
		Bench cabinet for hardness tester
		Dust cover

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