

Product Information

Rockwell hardness tester Zwick ZHR LK



Indenter holder to enable hardness tests on measuring locations that are hard to gain access to

Range of application

The hardness testers of the ZHR LR product family cover the following methods:

- **Classical Rockwell methods (ZHR 4150)**
Test load: 60 - 150 kg
or
- **Super Rockwell (ZHR 4045)**
Test load: 15 - 45 kg
or
- **Universal Rockwell (ZHR 8150)**
Test load: 15 - 150 kg

Special characteristics

- Simple operation via:
 - Automatic operation
 - Loading weight selection via a rotary knob
 - Automatic load application/removal
 - Automatic evaluation inclusive of conversion
- High precision
- Robust construction with a play free screw spindle running on ball-bearings
- Storage space for accessories behind side „doors“
- Workspace up to 250 mm high enables large workpieces to be tested
- Automatic display of the chosen hardness test method
- Operation via membrane key pad
- Tolerance preselection
- RS232 interface as standard
- Extended range of applications by means of free-standing indenter

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Order item	H019.ZHR4150LK Value	H019.ZHR4045LK Value	H019.ZHR8150LK Value	Unit
Test method	Rockwell	Super-Rockwell	Rockwell/Super-Rockwell	
Load	Pre-load	3	3, 10	kg
	Test load	60, 100, 150	15, 30, 45	kg
Pre-load setting	with optical and acoustic support			
Loading control	automatic load application, holding, and removal			
Load application	via dead weights			
Starting test action	automatically or manually			
Holding time	adjustable (1 – 50 sec)			
Tolerance preselection	user-friendly input			
Measuring of curved areas	automatic correction of curves (dia. 3 – 20 mm)			
Data calculation	average value R calculation (display + optionally: output to a PC or printer)			
Conversion	automatic conversion of hardness values into Vickers, Brinell, Rockwell, Knoop			
Display	ABCDEFGHIJKLMPSV	NTWXY	ABCDEFGHIJKLMPSV NTWXY	
Output signal	RS232	RS232	RS232	
Max height of specimen	250	250	250	mm
Max depth of specimen	150	150	150	mm
Dimensions (w x h x d)	292 x 782 x 700	292 x 782 x 700	292 x 782 x 700	mm
Weight	approx. 105	approx. 105	approx. 105	kg
Power supply	120 / 240 (50 - 60 Hz)	120 / 240 (50 - 60 Hz)	120 / 240 (50 - 60 Hz)	V

Standard accessories	4045 LK	4150 LK	8150 LK
1 Diamond indenter 120°	•	•	•
1 Ball indenter 1/16"	•	•	•
10 Replacement balls 1/16"	•	•	•
1 Round support table of dia. 70 mm for flat specimen	•	•	•
1 V-test support table for round specimen up to 30 mm dia.	•	•	•
1 HRB hardness comparison plate		•	•
1 HRC hardness comparison plate		•	•
1 HR30N hardness comparison plate	•		•
1 HR30T hardness comparison plate	•		•