

Product Information

Rockwell hardness tester Zwick ZHR AK



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 AR 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

Special characteristics

- Simple operation via:
 - Automatic operation
 - Loading weight selection via a rotary knob
 - Automatic load application/removal
 - Automatic evaluation
- High precision
- Robust construction with a play free screw spindle running on ball-bearings
- Workspace up to 292 mm high enables large workpieces to be tested
- Tolerance preselection
- RS232 interface as standard
- Extended range of applications by means of free-standing indenter

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Order item	H019.ZHR4150AK		H019.ZHR4045AK		Unit
	Value		Value		
Test method	Rockwell		Super-Rockwell		
Load	Pre-load	10	3		kg
	Test load	60, 100, 150	15, 30, 45		kg
Pre-load setting	with optical and acoustic support				
Load control	automatic load application, holding, and removal				
Load application	via spring force				
Starting test action	automatically or manually				
Holding time	adjustable (1 - 50 sec)				
Tolerance preselection	user-friendly input				
Data calculation	average value R calculation (display + optionally: output to a PC or printer)				
Display	ABCDEFGHKLMPRSV		NTWXY		
Output signal	RS232		RS232		
Max height of specimen	292		292		mm
Max depth of specimen	150		150		mm
Dimensions (w x h x d)	292 x 782 x 700		292 x 782 x 700		mm
Weight	approx. 75		approx. 75		kg
Power supply	120 or 240 (50 - 60 Hz)		120 or 240 (50 - 60 Hz)		V

Standard accessories	4150 AK	4045 AK
1 Diamond indenter 120°	•	•
1 Ball indenter 1/16"	•	•
10 Replacement balls 1/16"	•	•
1 Combined support table of dia. 19 mm, prisma for max dia. 30 mm	•	•
1 HRB hardness comparison plate	•	
1 HRC hardness comparison plate	•	
1 HR30N hardness comparison plate		•
1 HR30T hardness comparison plate		•