

MIDLAND METROLOGY LTD

# iBRV-187.5EM

Electric Motorized Brinell,  
Rockwell, Vickers Hardness Tester



# Product Features & Application

## Product Features

- Electric-motorized
- Universal hardness testing instrument for the measurement of Brinell, Rockwell and Vickers scale.
- 7-testing-face and 5-indenter, it is universal to measure a lot of material.
- Dwell time from 1 to 60S can be setup by the “time key” on the panel, it is much convenient than the setup on the manual hardness tester;
- Force knob adopts the metal material to replace the plastic, it improves the instrument using-life greatly.
- Loading, dwell and unloading is driven by electronic motor automatically, doesn't need the operator to handle it, it eliminates the human operating error maximum.

## Product Application

Suitable for measuring the hardness of quenched, tempered, annealed, cold hard castings, malleable castings, hard alloy steel, aluminum alloy, copper alloy, bearing steel, etc.



# Technical Specification:

Rockwell Scales	Initial Testing Force	98.07N (10kg)
	Total Test Force	588.4N (60 kg) 、 980.7N (100 kg) 、 1471N (150kg)
	Indenter	Diamond Rockwell indenter、 $\Phi$ 1.5875mm ball indenter
	Test Scale	HRA、 HRB、 HRC、 HRD
	Maximum Test Height of Specimen	210 mm(Maximum space can be up to 400)
Brinell Scales	Test force	294.2N (30kg) 、 306.5N (31.25kg) 、 612.9N (62.5kg) 、 980.7N(100kg)、 1839N(187.5kg)
		980.7N (100kg) 、 1839N (187.5kg)
	Indenter	$\phi$ 2.5mm、 $\phi$ 5mm ball indenter
	Test scale	HBW1/30; HBW2.5/31.25; HBW2.5/62.5; HBW5/62.5; HBW2.5/187.5
	Eyepiece Magnification	15X
	Objective Magnification	2.5X、 5X
	Maximum Test Height of Specimen	180mm
Vickers Scales	Test force	294.2N (30kg) 、 980.7N (100kg)
	Indenter	Diamond Vickers indenter
	Test scale	HV30; HV100
	Eyepiece Magnification	15X
	Objective Magnification	10X
	Maximum Height of Specimen	180mm
Machine Mainframe	Display Method	Special dial indicator for hardness tester
	Test Throat	165mm
	Machine Dimension	550×230×780mm
	Net Weight	80kg
	Power Supply	AC220V 50Hz

# Packing List

Name	Quantity	Name	Quantity
Machine Mainframe	1	Diamond Rockwell Indenter	1
Diamond Vickers Indenter	1	$\phi$ 1.5875mm ball indenter $\phi$ 2.5mm ball indenter $\phi$ 5mm ball indenter	Each 1
HRC Standard Hardness Block	3	Pressure Head Set Screw	1
HRB Standard Hardness Block	1	Big、small、V-shaped sample stage	Each 1
HRA Standard Hardness Block	1	Eyepiece	1
HV Standard Hardness Block	1	Slide Sample Table	1
HB Standard Hardness Block	1	2.5X、5X、10X Objective	Each 1
Horizontal Adjustment Screw	4	Level Gauge	1
Power Line	1	Fuse 2A	2

# Packing List



Hardness Block



~40mm V-shape test Anvil



Rockwell Indentor



~74mm Flat Test Anvil



Vickers Indentor



Slipped Test Table



Brinell Ball Indentor



~150mm Test Anvil

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