

## Rockwell hardness testing machine

### HR-210MR

Item number: 810-191-11



### Description

These are four economical Rockwell hardness testing machines to suit practically every application you need.

The Rockwell HR-200/300/400 offers you the following benefits:

- The newly designed frame provides maximum clearance for positioning the work piece, all you need is a flat table for mounting these testing machines.
- They are very simple to operate: the analogue type HR-210 uses an automatic presetting dial gauge.
- Digital models HR-430MR/MS use automatic steering wheel braking and load sequencing for easy handling.
- Digital models HR-320MS and HR-430MR/MS can use our Digimatic Mini-processor (DP-1VR) for printing results, and you can use an input tool (USB-ITN-E) to connect to a PC for data transfer, analysis and storage.
- You can perform Brinell hardness tests by using the following optional accessories: a Brinell indenter, a weight set and a measurement microscope.

### Features

Model:	<b>HR-210MR</b>
HR unit resolution:	<b>0,5 HR</b>
Jominy-test capability:	<b>Additional accessories required</b>
Workpiece clamping device K543817 capability:	<b>Serial</b>
Anvil adaption:	<b>Ø 19mm</b>
Max. specimen height:	<b>180 mm</b>
Throat depth:	<b>165 mm</b>
Max. specimen weight:	<b>20 kg</b>
Approx. mass main unit:	<b>47 kg</b>
Height:	<b>Max. 180 mm (100 if cover is attached) mm</b>
Measuring depth:	<b>Max. 165 mm (from the center of the indenter axis)</b>
Functions:	<b>To observe the hardness number within 0,2 HR of the scale unit, as required by ISO 6508-2, the displayed result is to be judged by the dial hand width within the step of the dial gage scale.</b>
Standard:	<b>JIS B 7726, ISO 6508-2</b>
Preliminary test force (N):	<b>98,07</b>
Test force Rockwell (N):	<b>588,4; 980,7; 1471</b>
Rockwell Scale Diamond:	<b>HRA; HRD; HRC</b>
Rockwell Scale Ball 1,5875 mm:	<b>HRFW; HRBW; HRGW</b>
Rockwell Scale Ball 3,175 mm:	<b>HRHW; HREW; HRKW</b>
Rockwell Scale Ball 6,35 mm:	<b>HRLW; HRMW; HRPW</b>
Rockwell Scale Ball 12,7 mm:	<b>HRRW; HRSW; HRVW</b>
Description:	<b>The HR-210MR is an economical Rockwell hardness testing machine to suit practically every application you need. The MR indicates the Rockwell testforce range. It offers you the following benefits:</b>

- The frame was designed with great care to provide maximum clearance for positioning the work piece. All you need is a flat table for mounting these testing machines.
- Its outstanding robustness makes it perfect for even the roughest environments.
- You can attach the clamping device K543817 to for safe operation with hard to handle workpieces.
- The analogue type HR-210MR uses an automatic presetting dial gauge which makes it easy to operate.
- You can perform Brinell hardness tests, as indicated, by using the following optional accessories:  
a Brinell indenter and a measurement microscope.

Resolution:	0,5 HR graduation
Test force selection:	Manual weight exchange
Test force application:	Semi-automatic
Test force duration:	Fixed 3-5-5 sec. or manual
Display Unit:	Analogue dial indicator
Main unit dimensions:	214x512x780mm
Brinell Scales indentation only Ball 1,0 mm:	HBW 1/10; HBW 1/30 - (non standard due to application of preliminary test force)
Brinell Scales indentation only Ball 10,0 mm:	HBW 10/100 - (non standard due to application of preliminary test force)
Standard accessories:	810-039 Flat anvil Ø64mm 810-040 V-anvil outside diameter Ø40mm groove width 30mm 11AAB941 Water level 383876 Vinyl cover 357651 AC adaptor
	Indenters, reference materials and power cord not included

## Accessories

### Optional accessories:



#### Fine feed adjustment stage for Jominy test(end quench test)specimen

810-026

Suggested retail price: 3,390.00 €\*



#### Hardness testing machines Adjustable support for long workpieces

810-027

Suggested retail price: 2,391.00 €\*



#### Hardness testing machines Height adjustable jack rest

810-028

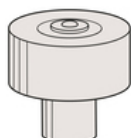
Suggested retail price: 2,391.00 €\*



#### V-anvil groove length 400 mm, Ø 50 mm- Ø 100 mm

810-029

Suggested retail price: 1,965.00 €\*



#### Diamond spot anvil for Rockwell Superficial scales Ø3.5 mm

810-030

Suggested retail price: 2,186.00 €\*



**Round table**

**Ø 180 mm**

**810-037**

Suggested retail price: **652.00 €\***



**Round table**

**Ø250 mm**

**810-038**

Suggested retail price: **1,193.00 €\***



**V-anvil**

**groove length 40 mm, Ø15 mm- Ø60 mm**

**810-040**

Suggested retail price: **216.00 €\***

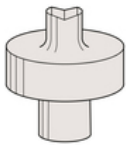


**V-anvil**

**groove length 40 mm, Ø3 mm- Ø9 mm**

**810-041**

Suggested retail price: **216.00 €\***



**Stepped V-anvil, step height 13 mm**

**groove length 10 mm, Ø4mm- Ø16 mm**

**810-042**

Suggested retail price: **176.00 €\***