Rockwell HR-200/300/400

Series 963

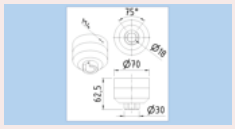
These are four economical Rockwell hardness testing machines to suit practically every application you need.
The Rockwell HR-200/300/400 offers you the following benefits:

- 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.

Specifications

Height	Max. 180 mm (100 if cover is attached) mm
Measuring depth	Max. 165 mm (from the center of the endenter axis)
Functions	HR-320MS, HR-430MR, HR-430MS : GO/NG, Compensation fubction, Hardness conversion

K543817
Workpiece clamping device for:
HR-210MR
HR-430MR



HR-300-400 digital display

HR-400 Automatic preliminary test force brake

SPC Digimatic and RS-232C interface

Scan QR Code with your mobile device and watch our product videos on YouTube

HR-210MR
Rockwell hardness testing machine

Manual weight changing
(with total test force selected)
and handling of preload force.
Motor drive controls loading sequence.

HR-210MR dial gauge

HR-320MS

Dual type (Rockwell / Rockwell Superficial) hardness testing machine:

Manually handles test force and preload force selection.
Motor drive controls loading sequence.

HR-430MR

Rockwell hardness testing machine:

Economy type, but supports dial switching, power steering and support of all test standards and is equipped with automatic brake handle auto start feature.
Motor drive controls loading sequence.

HR-430MS

Dual type (Rockwell / Rockwell Superficial) hardness testing machine:

Economy type, but supports dial switching, power steering and support of all test standards and is equipped with automatic brake handle auto start feature.
Motor drive controls loading sequence.

All products to be sold to commercial customers.
Product illustrations are without obligation. Product descriptions, in particular any and all technical specifications, are only binding when explicitly agreed upon.

Mitutoyo

Rockwell HR-200/300/400

Model	HR-210MR	HR-320MS	HR-430MR	HR-430MS
No.	**810-191-11**	**810-192-21**	**810-193-21**	**810-194-21**
Rockwell (EN ISO 6508, ASTM E-18, JIS B7726)	ISO 6508	●	●	●
Brinell, Indentation only (non standard due to application of preliminary load)	Optional	Optional	●	Optional
Analog type	●	-	-	-
Digital type LCD matrix with backlight	-	●	●	●
HR unit resolution	0,5 HR	0,1 HR	0,1 HR	0,1 HR
Test force range 60-150KG, 588- 1471N Rockwell	●	-	●	-
Test force range 62,5-187,5KG, 612,9-1839N Brinell**	Optional	-	Optional	-
Test force range 3-150KG, 29,42- 1471N Rockwell, Rockwell Superficial	-	●	-	●
Test force range 30-187,5KG, 29,42- 1839N Brinell**	-	Optional	-	Optional
Test force switching	Manual	Manual	By dial	By dial
Test force duration	Fixed 3-5.5s or manual	1-99s setting or manual operation	1-99s setting or manual operation	1-99s setting or manual operation
Preliminary test force 10kg/98,07N	-	-	●	-
Preliminary test force 3kg and 10kg/29,42 N and 98,07N	-	●	-	●
Preliminary test force (handling support)	-	Loading navigator indication	Automatic elevation unit brake	Automatic elevation unit brake
Preliminary test force switching - by dial	-	-	●	●
Total test force load operation Manual/lever operation	-	Motor drive, Button start	Motor drive, Automatic start	Motor drive, Automatic start
LED workroom illumination	●	●	●	●
RS-232C, Digimatic interface	-	●	●	●
Compensation	-	●	●	●
Cylindrical compensation	-	●	●	●
Acoustic signal for end of test, error	-	●	●	●
Conversion	-	●	●	●
Limit indication	-	●	●	●
Jominy-test capability	Additional accessories required	Additional accessories required	Additional accessories required	Additional accessories required
Workpiece clamping device K543817 capability	●	-	●	-
Basic test surface Ø 64mm	●	●	●	●
Anvil adaption	Ø 19mm	Ø 19mm	Ø 19mm	Ø 19mm
Max. specimen height	180 mm	180 mm	180 mm	180 mm
Throat depth	165 mm	165 mm	165 mm	165 mm
Max. specimen weight	20 kg	20 kg	20 kg	20 kg
External dimensions 235(W) x 512(D) x 780(H)mm	●	●	●	●
Approx. mass main unit	47 kg	46,3 kg	49,3 kg	49,9 kg
Power supply 100-240V AC 1.2A (AC adapter DC12V 3.5A)	●	●	●	●

** requires optional Brinell weight set
*** can be enhanced with additional accesories
** requires optional Brinell weight set

All main units are supplied without power cord, indenters and hardness reference materials.
Please choose the required accessories separately.

Please choose for example:

63DIA023 diamond indenter ISO 6508 and ASTM E18
63ETB040DG 60HRC hardness reference material ISO 6508 and ASTM E18
02ZAA021 power cord

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