

EX200 Series Digital Durometer Systems

The NEWAGE® EX200 Series digital durometer system is designed for hardness testing on rubber, plastic or other materials that utilize Shore or International Rubber Hardness Degrees (IRHD) scales. The EX200 Series is comprised of a test head, bracket and test stand. Regular test heads meet ASTM D2240 or D1415 for testing in Shore or IRHD scales. You select the appropriate test head and bracket for mounting onto the EX200/300T digital test stand.

The 200 Series die-cast aluminum heads feature a precision, calibrated spring that generates a known preload on the indenter. The depth of penetration of the sample is indicated on a large analog dial by a pointer along a 0 to 100 scale. Heads are available with 1- or 2-point dial resolution for more precise measurements.

The EX200/300T digital test stand can accommodate analog test heads using the appropriate mounting bracket. The test stand also features a digital readout that displays the test result to 0.1 resolution. The test stand features a 2-1/2" throat and a vertical capacity of 5". The 125 mm diameter anvil table can be equipped with a motor option for automated motion control. The keypad on the readout can be used to select the appropriate scale for testing: Shore A, Shore D, Micro Shore A, Micro Shore D, IRHD Normal, IRHD Soft, or Micro IRHD. Users can also specify tolerances, control limits, time-at-load, and average test results based on groups. Up to 2800 test results can be stored in the EX200/300T tester. Results can be used to generate statistical reports. An RS232 output allows information to be transmitted to personal computers, printers or other compatible output devices.

Special O-ring fixtures are available that assist in securing O-ring samples with cross-sectional measurements from 0.8 to 5 mm; 0.6 to 8 mm; and 4 to 20 mm.

Features

- Meets ASTM D2240 or D1415
- Test Heads bracket to Digital Test Stand
 - Scales: Shore A, D and IHRD
 - 1- and 2-point Dial Resolution
 - Die Cast Aluminum Housing with Precision Spring Movement
- Digital Test Stand
 - Digital readout for selecting scale, test time, tolerances
 - Store and output up to 2800 test results using RS232 output

Specifications

Test Heads

Scale Range:	0 to 100
Scale Resolution:	1 and 2 points
Scale Diameter:	52 mm
Pointer Sweep:	256-degrees
Indenter Type:	Frustrum Cone
Operating Temp:	50°F to 120°F 10°C to 49°C
Warranty:	1 year

Digital Test Stand

Scale Displays:	Shore A, Micro Shore A Shore D, Micro Shore D IRHD Normal, Soft & Micro
Vertical Capacity:	5"
Throat:	2-1/2"
Outputs:	RS232
Data Storage:	Up to 2800 Test Results
Operating Temp:	50°F to 120°F 10°C to 49°C
Warranty:	1 year



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Hardness Testing

Ordering

EX200 Series Test Heads

Model	Description	Scale	Pen Shape	Pen Depth	Net Weight	Test Load	Sample Weight
EX200SA	Regular, Shore A	A	35 Blunt Cone	2.5 mm	4 lbs	0.823 kgf	1.275 kgf
EX200SAM	Micro, Shore A	A	35 Blunt Cone	0.5 mm	2 lbs	0.257 kgf	0.510 kgf
EX200SD	Regular, Shore D	D	30 Point	2.5 mm	1 lb	4.539 kgf	-
EX200SDM	Micro, Shore D	D	30 Point	0.5 mm	2 lbs	1.034 kgf	0.510 kgf
EX200SOO	OO Scale	OO					
EX200IR	Regular, IHRD	IRHD	2.5 mm Ball	1.8 mm	8 lbs	0.581 kgf	0.847 kgf
EX200IRS	Soft, IHRD	IHRD	5.0 mm Ball	2.1 mm	8 lbs	0.581 kgf	0.847 kgf
EX200IRM	Micro, IHRD	IHRD	0.5 mm Ball	0.2 mm	4.5 lbs	0.106 kgf	0.024 kgf

Note: All IHRD Test Heads are supplied with a Bracket.

EX200 Series Brackets

Model	Description	Stroke	Net Weight
EX200BR	Bracket, for Regular Test Heads	2.5 mm	4.5 lbs
EX200BRM	Bracket, for Micro Test Heads	0.5 mm	4.5 lbs

EX200300T Series Test Frame

Model	Description
EX200/300T	Digital Test Frame for Exacta 200 and 300 Series

EX Series Indenters

Model	Description
EX001SA	Shore A Indenter
EX001SB	Shore B Indenter
EX001SD	Shore D Indenter
EX001SO	Shore O Indenter
EX001IR	IHRD Indenter, Normal
EX001IRS	IHRD Indenter, Soft
EX001IRM	IHRD Indenter, Micro

Test Blocks

Model	Description
EX002-SD	D Scale, Adjusting Block
EX002-IRC	IRHD, Normal, with Certificate
EX002-IRSC	IRHD, Soft, with Certificate
EX002-IRMC	IRHD, Micro, with Certificate

Options and Accessories

Part No.	Description
EX200MS	Motorized Anvil Stage
EX011	O-Ring Fixture for Sample Cross-Sections: 0.5 to 5 mm
EX012	O-Ring Fixture for Sample Cross-Sections: 0.6 to 8 mm
EX013	O-Ring Fixture for Sample Cross-Sections: 4 to 20 mm
EX005	Magnifying Glass Attachment
EX006	Digital Calibration Scale (A - D)
EX007	Vinyl Dust Cover
EX009	Custom Indenter Extension
AT130PR	Printer Cable
C98991097	IRHD Gage Block Set (4 each)



Shown: Optional O-Ring fixture.

AMETEK® MEASUREMENT & CALIBRATION TECHNOLOGIES

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