

EX300 Series Digital Durometer Systems

The NEWAGE® EX300 Series digital durometer system is designed for hardness testing on rubber, plastic or other materials that utilize the Shore scales. The EX300 Series is comprised of a test head, bracket and test stand. Regular test heads meet ASTM D2240 for testing in Shore scales. You select the appropriate test head and bracket for mounting onto the EX200/300T digital test stand.

The EX300 Series die-cast aluminum head has a load lever and deadweight for load application and may be motorized for automatic testing. The standard bracket for the EX300 comes with a load weight for Durometer A scale. An additional load weight is supplied with the EX300SD test head for testing in the Durometer D scale. 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 and Shore D. 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
- Test Heads bracket to Digital Test Stand
 - Scales: Shore A, D
 - 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, Shore D,
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

EX300 Series Test Heads

Model	Description	Scale	Pen Shape	Pen Depth	Net Weight	Test Load	Sample Weight
EX300SA	Regular, Shore A	A	35 Blunt Cone	2.5 mm	4 lbs	0.823 kgf	1.275 kgf
EX300SD	Regular, Shore D	D	30 Point	2.5 mm	1 lb	4.539 kgf	-

EX300 Series Brackets

Model	Description	Stroke	Net Weight
EX300BR	Bracket, for Regular Test Heads	2.5 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
EX300MT	Test Bracket Motor Drive
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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