

Hardmatic HH-300 Series

SERIES 811 – Digimatic Readout Durometers

Technical Data

Functions:	Data hold, zero-setting, SPC output, power ON/OFF
Power supply:	SR44 silver oxide cell x 1pc.

Optional Accessories

Code No.	Description
264-505E	DP-1VA LOGGER Digimatic Mini-Processor
811-012	Test stand (Shore D)
811-013	Test stand (Shore A)* ¹
811-019	Test stand (Shore A)* ²
905338	SPC data cable (1 m)
905409	SPC data cable (2 m)
64AAA590	Shore D reference material (3pcs.)
64AAA964	Shore A reference material (3pcs.)

*¹ Only available for Compact Type Durometer.

*² Only available for Long Type Durometer.

Test stand applications

These stands are used to mount Durometers. They allow constant-force hardness measurement by ensuring that the Durometer presses vertically on the workpiece surface at all times.

- A Anyone can perform repeatable hardness measurement due to fewer possibilities for human error and measurement variations.
- B The supplied weights can be attached directly to a Durometer and allow constant-force hardness measurement of large samples for which a stand cannot be used.
- C The supplied weights are used for calibrating the spring force of Durometers.



- Workstage size: ø90 mm.
- Maximum specimen height: 90 mm.

- Digimatic Durometers are suitable for testing the hardness of non-metallic materials such as natural rubber, neoprene, polyesters, P.V.C., leather, Thiokol, nitrile rubber, wax, vinyl, cellulose acetates, glass, polystyrene, etc.
- Units are available reading both in both Shore A and Shore D scales to suit a wide variety of applications.
- Designed in accordance with the ASTM D 2240, ISO868, ISO 7619, DIN 53 505, JIS K 6253, and JIS K 7215 specifications.
- The Digimatic Durometer is provided with a data hold function for error-free reading.

MeasurLink ENABLED
Data Management Software by Mitutoyo



811-336-10



811-334-10

Specifications

Model	HH-336	HH-332	HH-338	HH-334
Code No.	811-336-10	811-332-10	811-338-10	811-334-10
Scale	Shore A		Shore D	
Type	Compact	Long-leg	Compact	Long-leg
Applications	Natural rubber, soft elastomers, etc.		Hard elastomers, plastics, hard rubber, ebonite, etc.	
Resolution	0.5			
Range	HA: 10 - 90		HD: 20 - 90	
Standards	ASTM D 2240	✓	✓	✓
	ISO 868	✓	✓	✓
	ISO 7619	✓	✓	✓
	DIN 53 505	—	✓	—
	JIS K 6253	✓	✓	✓
	JIS K 7215	✓	✓	✓
Pressure foot size	44 x 18 mm	ø18 mm	44 x 18 mm	ø18 mm
Spring force (mN)	550+75H (Hardness reading: 10 - 90)		444.5H (Hardness reading: 20 - 90)	
Indenter	Blunt taper (tip diameter: 0.79 mm)		Sharp point (tip radius: 0.1±0.01 mm)	
Tip angle	35°±0.25°		30°±0.5°	
Indenter diameter	1.25 mm			
Indenter protrusion	2.5 mm			
Dimensions (W x D x H)	60 x 28.5 x 151 mm	60 x 29.5 x 193 mm	60 x 28.5 x 151 mm	60 x 29.5 x 193 mm
Mass	290 g	310 g	290 g	310 g