

# D 2020 Hardness

An automated hardness tester for either IRHD or Shore A.

## Features

- Fully automated with 20-sample queue.
- Pre-loaded 1, 3 or 5-point hardness tests.
- Eliminates operator influence.
- Meets ASTM D1415, BS 903, DIN 53519, ISO 48, NF T46-003 for IRHD.
- IRHD head designed for low friction and low maintenance.
- Meets ASTM D2240, BS 2782, BS 903, DIN 53505, ISO 7619, ISO 868, NF T46-052 for Shore A.
- Software fully integrated with Eclipse Daisy and Enterprise LIMS software.

## D 2020 Hardness Specifications

Item	IRHD	Shore A
Indenter	Spherical Ball with 2.5 mm Dia.	Truncated Cone with 0.79 mm Dia.
Hardness Range	30 to 100	10 to 90
Accuracy	<0.5 IRHD	<0.5 Shore A
Tests per Sample	1, 3, or 5-point	1, 3, or 5-point
Test Time	1 to 99 sec	1 to 99 sec
Automation Samples	20	20
Sample Diameter	35 to 45 mm	35 to 45 mm
Sample Thickness	4 to 10 mm	4 to 10 mm



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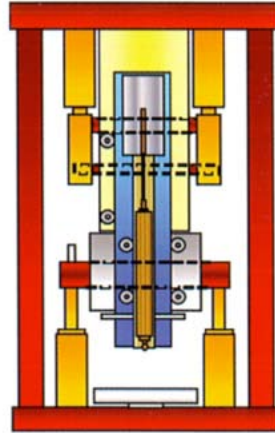
## Performance

### IRHD

Each sample is placed under the foot and indenter automatically. The foot and indenter are lowered, and the displacement of the indenter in relation to the foot is measured with a transducer.

### Shore A

The foot is lowered, and a truncated cone is pressed onto the sample with a known force applied by a spring. The subsequent displacement is measured with a transducer.



IRHD Head

## Test Capabilities

- IRHD.
- Shore A hardness.

## Options

- Eclipse Daisy software.
- Enterprise LIMS software.
- D 2020 Density tester.