

Shore® IRHD Testing Systems: Overview



Shore®

The IRHD method is superior to most standard durometer indentation hardness testing methods. The material hardness is determined by the difference in the penetration depth of a spherical indenter under two conditions, the application of a small initial force and the application of a larger terminal force.

These determinations are performed at specific intervals and dwell, the differential is converted to a hardness value, in compliance with [ASTM D1415](#) "Standard Test Method for Rubber Property – International Hardness" (2.5 mm indenter), as well as ISO 48, Type N.

It is highly recommended that when durometer hardness testing is being employed as a critical input to production control or QA/QC criteria that the IRHD testing methodology be given serious consideration.

Shore® offers two very high quality and relatively inexpensive models of IRHD Testing Systems.

IRHD Model 903/2000



The [Model 903/2000](#) features the DuroTronic™ 2000 IRHD digital transducer coupled with the specially designed Model 903 automatic operating stand.

IRHD Model 770/2000



The [Model 770/2000](#) also employs the DuroTronic™ 2000 IRHD digital transducer and a less expensive, yet high quality and precise, manual operating stand.

IRHD Model S1



The [Model S1](#) employs the new S1 modular digital system! **It will be introduced soon... more information to follow.**

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