

MeasurLink' ENABLED

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).



An inspection certificate is supplied as standard. Refer to page U-11 for details.



Refer to the Hardness Testing Machines Brochure (**E17001**) for more details.

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• Hardness measurement by durometer is simply performed by holding the instrument against the surface of a specimen and reading the indicated value. This type of hardness tester is most widely used for hardness testing of sponge, rubber, plastics and other soft materials.

HARDMATIC HH-411 SERIES 810 — Rebound Type Portable Hardness Tester

• Excellent operability that performs hardness tests with the touch of a key and a compact body allows users to measure hardness in the field. This instrument is best suited for on-site hardness tests such as large molds, railroad track, and welded spots in structures.

MeasurLink® ENABLED Data Management Software by Mitutoyo

SPECIFICATIONS

| Order No. | 810-299-10 | 810-299-11 | 810-298-10 | 810-298-11 | | |
|--|---|---------------------------------|--|---------------------|--|--|
| Model | HH-411 | | | | | |
| Standard | JI: | S | ASTM | | | |
| Detector | Impact hammer with integrated detector and carbide-ball tip (D type) | | | | | |
| Display unit | 7-segment LCD | | | | | |
| Hardness display range | Leeb hardness: 1 to 999 HL | | | | | |
| Display range (This display range varies depending on the conversion table used.) | Vickers hardness: 43 to 9 Brinell hardness: 20 to 89 Rockwell hardness (C sca Rockwell hardness (B sca | 96 HB ale): 19.3 to 68.2 HRC | Shore hardness: 30.1 to 99.5 HS Tensile strength: 499 to 1999 MPa | | | |
| Power supply | Alkaline AA battery 2 pcs. (battery life: 70 hours) or optional AC adapter | Optional AC adapter | Alkaline AA battery 2 pcs. (battery life: 70 hours) or optional AC adapter | Optional AC adapter | | |
| External dimensions/Mass | Detector: ø28×175 mm in length, 120 g Display (W×D×H): 70×110×35 mm, 200 g | | | | | |

HARDMATIC HH-300 SERIES 811 — Durometers for Sponge, Rubber, and Plastics

Compact type



811-329-10 HH-329 811-330-10 HH-330 811-335-10 HH-335 811-336-10 HH-336 811-337-10 HH-337 811-338-10 HH-338 MeasurLink® ENABLED

Data Management Software by Mitutoyo



SPECIFICATIONS

| Order No |). | 811-329-10 | 811-330-10 | 811-331-10 | 811-332-10 | 811-333-10 | 811-334-10 | 811-335-10 | 811-336-10 | 811-337-10 | 811-338-10 |
|--------------------------------------|--|----------------------------|--|---|--|---------------------------------------|--|------------------------------|--|---------------------------------------|--|
| Model N | 0. | HH-329* | HH-330 | HH-331* | HH-332 | HH-333* | HH-334 | HH-335* | HH-336 | HH-337* | HH-338 |
| Туре | | Compact | | Long | | Compact | | | | | |
| Display s | pecification | Analog | Digital | Analog | Digital | Analog | Digital | Analog | Digital | Analog | Digital |
| Measurement target | | Soft rubbe felt, hard f | er, sponge, ilm, winder | General rubber, soft plastic | | hard rubber, hard plastic, ebonite | | General rubber, soft plastic | | hard rubber, hard plastic, ebonite | |
| Classification by specification Type | | e E | Type A Type D | | Type A | | Type D | | | | |
| | Shaft diameter | - | _ | ø1.25 | | | 25 mm | | | | |
| Needle shape | Tip shape | Semi-sphere | | Circular truncated cone | | Cone | | Circular truncated cone | | Cone | |
| | Tip angle | _ | | 35° | | 30° | | 35° | | 30° | |
| | Tip diameter | ø5 mm | | ø0.79 mm | | _ | | ø0.79 mm | | _ | |
| | Tip curvature | _ | | _ | | 0.1 mm | | _ | | 0.1 mm | |
| Power su | pply | _ | Button silver oxide battery SR44 | _ | Button silver oxide battery SR44 | _ | Button silver oxide battery SR44 | _ | Button silver oxide battery SR44 | _ | Button silver oxide battery SR44 |
| External of | ternal dimensions (WxDxH) 68x34x146 mm 59x40x147 mm Analog, long type : 68x35x188 mm Analog Digital, compact type: 59x41x190 mm Digital, | | alog, long type ital, compact typ | pe : 68×34×146 mm t type: 59×40×147 mm | | | | | | | |
| Mass | | 300 g | 290 g | 320 g | 310 g | 320 g | 310 g | 300 g | 290 g | 300 g | 290 g |

^{*} Models which can be connected to the MeasurLink measurement data network system are only Digital types.

Optional Accessories for Dual-purpose Stand CTS Series

| Order No. | 811-019 | 811-012 | 811-013 |
|-------------------|-----------|-----------------|-----------|
| Model | CTS-101 | CTS-102 | CTS-103 |
| Applicable models | HH-331/32 | HH-333/34/37/38 | HH-335/36 |

