

BASIC DEVICE

H-Series

Advanced tablet hardness testers

For manual measurement of 5 parameters: weight, thickness, diameter (length), width and breaking force (hardness). Intuitive operation via 7" Touch-Screen display. State-of-the-art technology with LED status lamp. Smart, user-friendly with high quality.

The H-Series manual laboratory testing devices in the new LAB.line design combine the latest technology and usability. Rounded shapes, generous radii and smooth surfaces make them very easy to clean.

8 GB internal memory (max. of 10.000 products with T- limits).
32 GB internal SD card for backup of the database.
Measuring range 400 N (optional 40 N or 800 N), up to 60 mm.

Easy cleaning using the Clean Design Concept.
Orientation via Grooving plate, easy and fast exchangeable.

Adjustment and calibration via display with flexible reminder function. Configurable printout via local USB printer, network printer and / or on USB stick (PDF file). Export function via LAN (PDF file) available as standard.



Pic.: H-Series standard device



Pic.: H-Series with optional scale and external thickness gauge

MEASURED PARAMETERS

-  **HARDNESS**
-  **LENGTH / DIAMETER**
-  **WIDTH**
-  **THICKNESS (INTERNAL AND EXTERNAL)**
-  **WEIGHT (EXTERNAL SCALE)**

ADVANTAGES

- + Clean Design Concept
- + Very user-friendly
- + Intuitive touchscreen operation
- + Measuring range (length) up to 60 mm
- + Constant Speed & Constant Force

FUNCTIONS

- User Administration
- Printouts configurable
- Monitoring of calibration interval
- Access control
- Automatic PDF export to an USB stick
- Large product memory for up to 10000 products
- Access to charts during active test
- Plain text messages

OPTIONS

- License for 21 CFR Part 11 available
- License for Batch reporting
- License for CSV export available
- License for LIMS export (XML-File) available
- Load cells: 40N, 400N (Standard), 800N
- Base with two larger collection containers
- Mechanical Tablets (50N, 100N, 150N, 200N)
- External thickness gauge optional
- External balance optional
- IQ, OQ, PQ

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MODEL	 HARDNESS	 LENGTH / DIAMETER	 WIDTH	 THICKNESS	 WEIGHT (external scale)
H2 L	●	●			
H3 L	●	●	●		
H4 L	●	●	●	○	
H4+ L	●	●	●	●	●
H5 L	●	●	●	○	●

● Device configuration

○ Special feature: manual thickness gauge

TECHNICAL DATA | H-Series

Hardness tester

Measurement principle	Load measurement cell (LMZ) with strain gauge (DMS)
Measurement method	Constant speed or constant force
Measuring range	4 – 400N standard, optional 1 – 40N / 8 – 800N
Measurement accuracy	4 – 400N (+/- 1N), 1 – 40N (+/- 0.1N), 8 – 800N (+/- 2N)
Resolution	1N at 400N / 800N range, 0,1N at 40N range
Units of measure	N / Kp / SC
Tablet diameter	1 – 60 mm
Measurement accuracy	+/- 0.05 mm
Resolution	0.01 mm
Units of measure	mm / Inch
Calibration	Static, multiple points and with protocol

General

Touch Display	7" capacitive touch-screen, resolution 800 x 480
Interfaces	2 x USB 2.0 / 1 x RJ45 LAN / 1x RS232
Printer connectivity	Network or USB

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TECHNICAL DATA

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Weight

Weight	7 kg standard device 8Kg standard device with optional debris bin
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Dimensions	270 mm x 230 mm x 105 mm
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Power requirements

Main voltage primary	100 - 240 VAC, 50 / 60 Hz
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Main voltage secondary	24 VDC / 5.0A, max. 120W
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