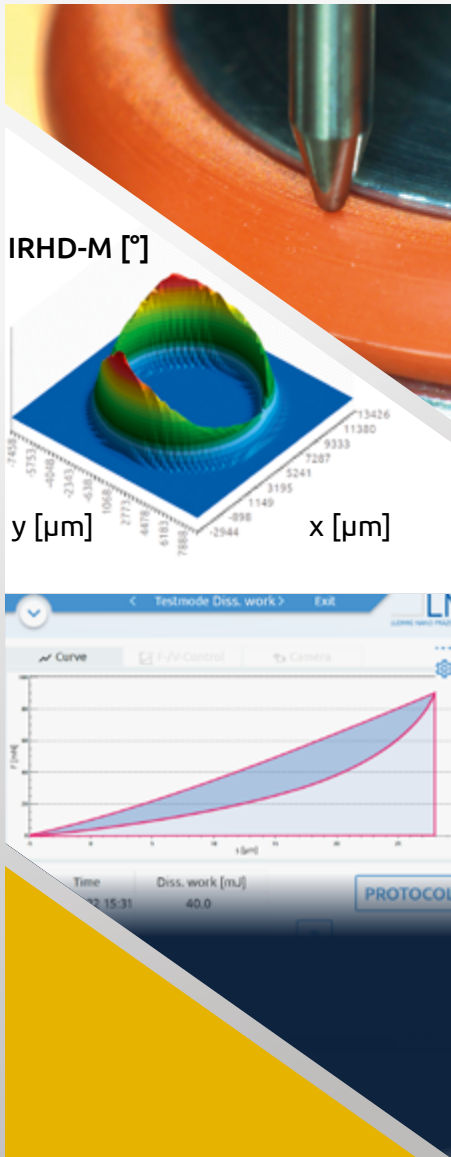


THE PREMIUM HARDNESS MEASURING DEVICE FOR SHORE A, IRHD-M AND MORE

LNP[®] Universaltester: IRHD-M for elastomers & more



Scan for more
information!



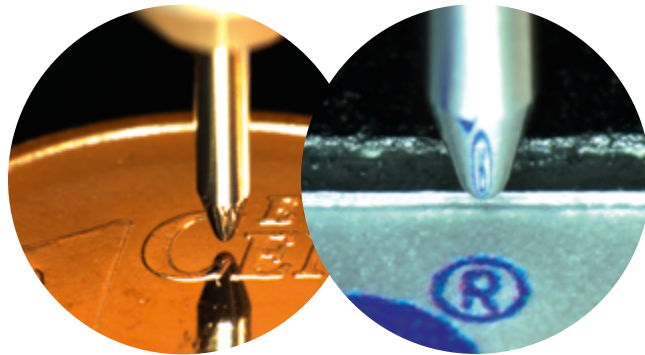
NEW!
IN 2022

- finally crosslinking detection!
- Change procedures as easy as a probetip
- Softwareassistant with error recognition

The premium measuring device

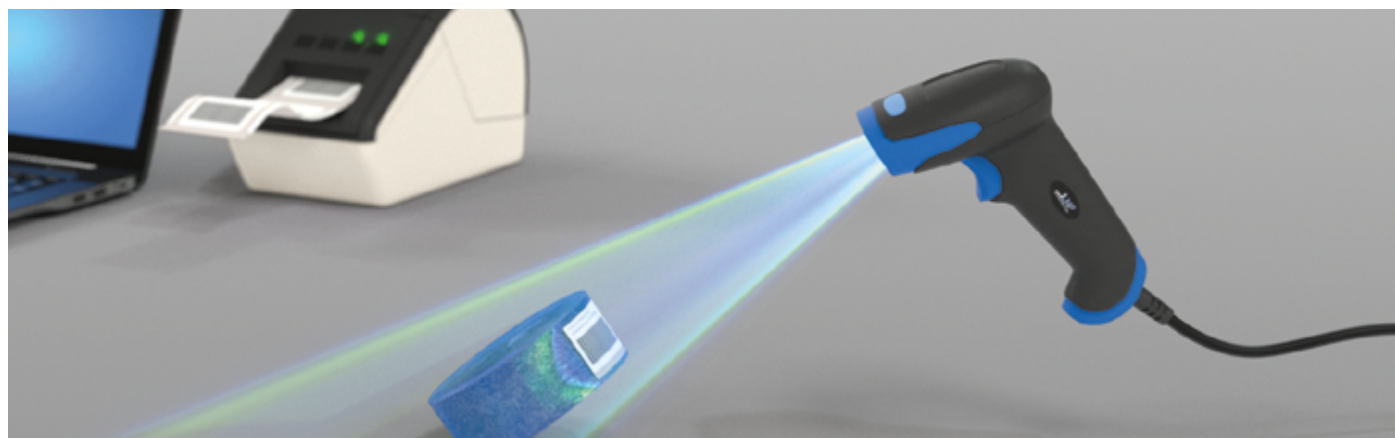
ALL BENEFITS AT A GLANCE:

- Easy to use, little training required.
- Unprecedented accuracy.
- Time savings thanks to a high degree of automation and short set-up times.
- High-precision hardness measuring head and Z-axis.
- High operating convenience thanks to fully automatic standard tests at the push of a button.
- Future-proof and network-compatible System, suitable for Industry 4.0.
- Software concept designed for networks, regular updates, remote maintenance and support in the maintenance contract possible. USB-Interface and LAN-Interface (optional).
- Afterwards expandable with a lot of accessories.
- Fast and efficient documentation.
- Data interface to MS Office (optional).



CARBIDE INSTEAD OF STEEL

Every hardness measurement is only as precise as the spherical shape of the test specimen. That is why our stylus tips consist exclusively of Carbide, which is processed to a high gloss. Every probe tip is tested and certified by LNP.



OPTIONAL SCANNER AND PRINTER

- Direct start of your own test sequences and programs.
- Organize and manage test objects and workpieces..

Scope of delivery LNP® Universaltester devices

1	LNP® hardness measuring head IRHD-M or Shore a
2	Motorized Z-Axis, 250 mm travels
3	LNP® Standard Software
4	LNP® Action controller with emergency off function
5	High-quality precision granite plate
6	integrated control
7	Windows Convertible Notebook (Touchscreen) Database connection on request

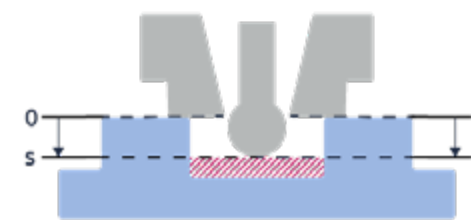


LNP® IRHD-M probe tip



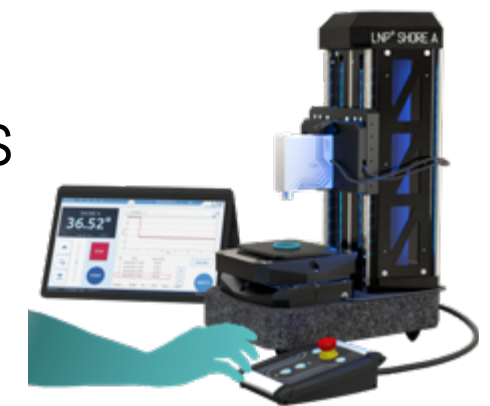
LNP® SHORE A probe tip

LNP® Universaltester - One device for many procedures



STANDARD TESTING WITH LNP® UNIVERSALTESTER

The devices can work without lens support rings, so that even jagged samples can be measured. With a change of the probe tip, the measuring device can be used for any standard procedure that you need.



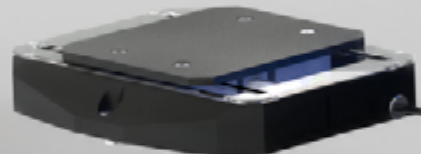
LNP® UNIVERSALTESTER ON:
034332



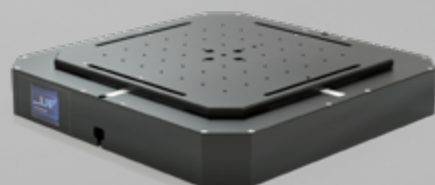
034973-02 CAMERA
5MP, USB3 - with
telecentric Lens and
LED ring light



035542
LNP® LINEAR AXIS TYPE XY
Automatic axis
for X and Y directions



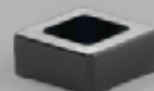
035541
LNP® LINEAR AXIS TYPE X
Automatic axis for X
direction. Also
available as type Y!



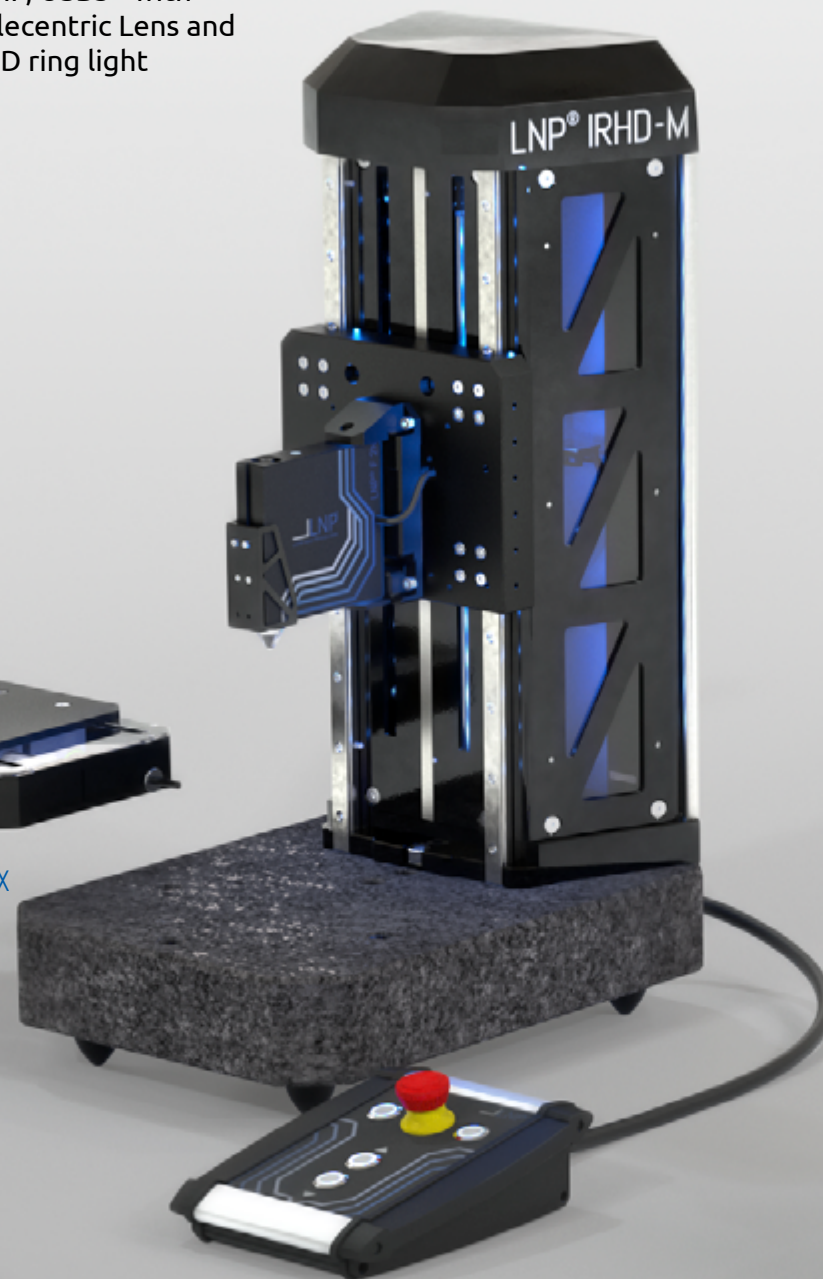
034947 LNP® DC CROSSTABLE
Usable with granite plate



035540
LNP® ROTARY TABLE G
Automatic rotary
axis with space for
several samples.



035170
LNP® HARDNESS REFERENCE BLOCK 4.0
Exact device check with
logging software!

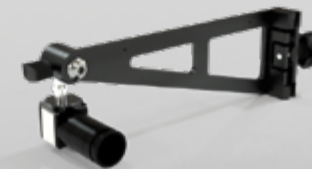


Extensive equipment:

Our equipment allows you to determine the degree of automation. Your desired workstation configuration is not yet included or you need some answers for a particular application? Contact us!
We would be happy to provide you with an individual solution



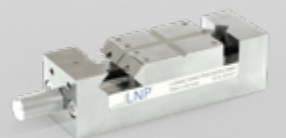
035007 LNP® HEATING TABLE WITH CONTROLLER
For heating specimens up to
230 °C. With IR camera.



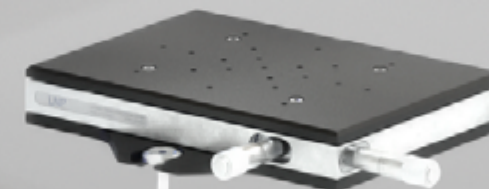
034973-02 CAMERA
5MP camera mit 25 mm lens



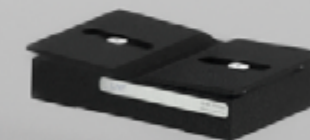
LABELPRINTER AND SCANNER
035543 scanner
035544 labelprinter



031077 LNP® PARALLEL VICE
In different variations



033394
LNP® FLEXURE HINGE CROSS
TABLE V1
Manual basic cross
table for X and Y axes.



034103
LNP® SAMPLE HOLDER EVEN
Base sample holder
for test specimens
and small components.



034843
LNP® ANGLE ADJUSTMENT
& ROTARY TABLE-K-BUNDLE
With automatic rotary axis,
manual angle adjustment
and three-jaw chuck.

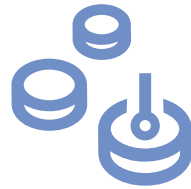
State: May 2022. Subject to technical changes.
Illustrations of products within the brochure may differ.

Our software solution: From a quick test to serial inspection



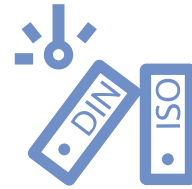
1. EASY TESTMODE

For quick testing in between! Measurement on the push of a button, with a history of the recent measurements and their results.



2. STANDARD TEST MODE

Measurements at the push of a button and according to the standard. Tolerance limits and other statistical values are clearly displayed and logged.



3. EXTENDED OR SERIAL TEST MODE-

Write your own test procedures, set the tolerance limits for each product type and evaluate them. Measure the back relaxation with adjustable times and more!

One Device for every Standard? Just a probetip change away with LNP!



CHANGING PROBETIPS

The changing of probetips is menu-guided. Just follow the illustrated instructions on the screen.

IN ADDITION TO IRHD-M ISO 48 YOU CAN ALSO CHOOSE:

VLRH DIN ISO 27588
SHORE A/M ASTM 2240
SHORE 00 ASTM 2240
SHORE 000 ASTM 2240

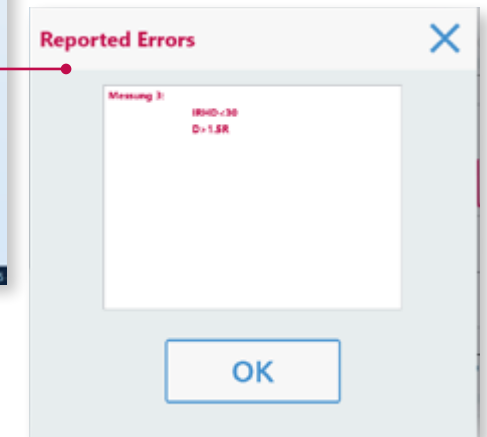
SHORE A MIKRO
Hardnesstopography
E-MODUL according LNP
Microtribology

Softwareassistant for error detection



SUPPORT FOR YOU

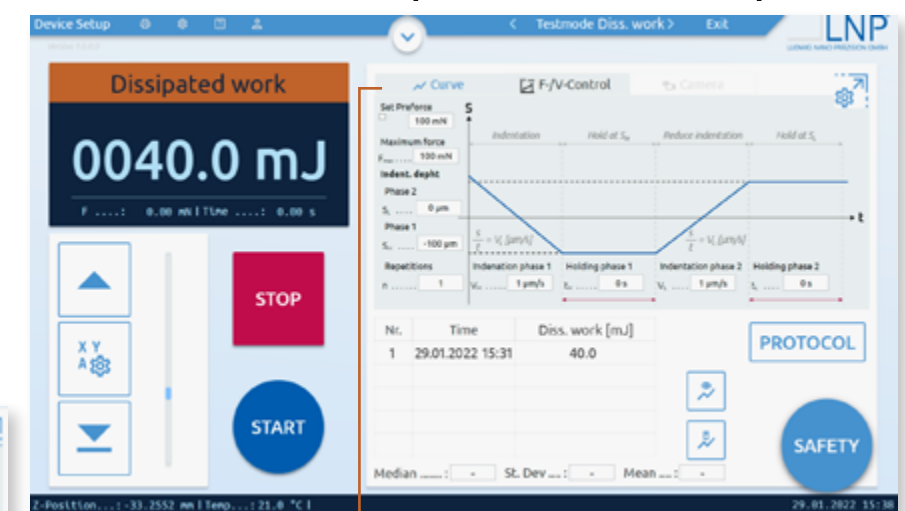
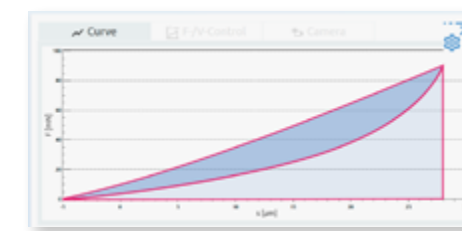
The Error detection tool points out implausible measurements and gives clues for future prevention.



Crosslinking detection finally made easy

INPUT FIELDS

define freely all necessary parameters for measuring dissipated work, stiffness and more.



Have a look at our homepage!
We are at your disposal for further questions
gladly available at any time.

Ludwig Nano Präzision GmbH
Prieche 7
37154 Northeim

Tel. +49 (0) 5551 | 910 20 59
Fax +49 (0) 5551 | 910 20 58

Info@LNP-Systems.com
www.LNP-Systems.com

Do you have questions about the possible standard procedures?



Look for more
information on
our homepage!

Does the sample thickness have an influence on the measurement result?

What properties does a material or a workpiece have to have in order to obtain meaningful results from the hardness test?

Why shouldn't Shore A values simply be converted into IRHD M values?

Are you already acquainted with our universal measuring system?



One measuring system, all processes, fully automated!

LNP[®] measuring systems based on the LNP nano touch are the right choice for material analyzes that go in depth and for Problems that require different measurement methods.

Scan for informationen about the LNP[®]-measuring system