Discover the world of hardness testing

Product Range

EMCO TEST

YOUR FACTOR OF SAFETY

www.emcotest.com

Large product range.

Further info at www.emcotest.com

N6

Intest hardness tester

for Ø 36–110 mm

insertion depth up to 400 mm

N7

Tooth flank hardness tester

Tooth measurement width up to 140 mm (N7F) or 700 mm (N7P)

External teeth
modul 2–10 (N7F)/3–35 (N7P)

N4

Portable hardness tester

147 – 1840 N (15 – 187.5 kgf)

Span width:
0–20/145/235/335 mm

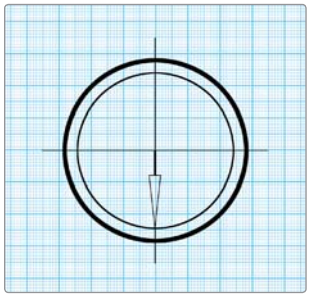
- Rockwell EN ISO 6508, ASTM E18
- Plastic testing EN ISO 2039
- HBD and HVD methods

N3A

Rockwell hardness tester with dial gauge (N3A)

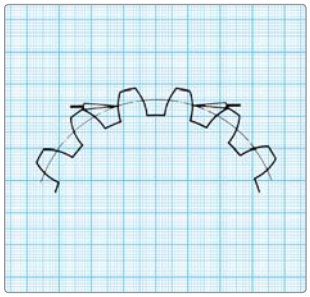
147 – 1840 N (15 – 187.5 kgf)

- Rockwell EN ISO 6508, ASTM E18
- Plastic testing EN ISO 2039
- HBD and HVD methods



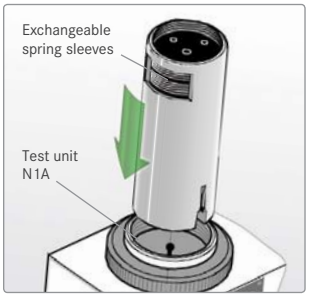
Drilling

The testing machine is positioned in the drilling and fixed by clamping action. The test load is applied via hand lever. Subsequently the reading is taken from the dial gauge in HRC values.



Tooth flanks

The tester is positioned on the tooth flanks and is clamped on the designated test point. After the clamping the application of the test load follows by means of a hand lever. Subsequently the result of the measurement is taken from the dial gauge in HRC values.



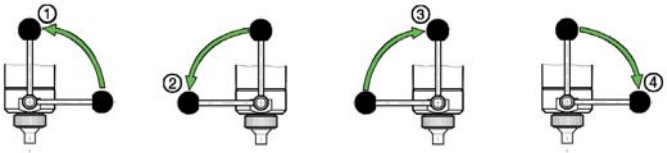
Exchangeable

The N1A test unit with exchangeable spring sleeves is used for different loads (spring sleeves with different loads).

Dial gauge

N3A hardness tester measurement readings via analogue dial gauge. Three coloured scales printed on the clock-face. Hardness value read on corresponding scale according to chosen test method and test load (accuracy 0.5).

Schemat. sequence of the load application



DuraJet 10 G5

Rockwell hardness tester
with touch display

9.8–2450 N (1–250 kgf)

- Rockwell EN ISO 6508, ASTM E18
- Plastic testing EN ISO 2039
- Carbon testing DIN 51917
- HBD and HVD methods

DuraScan 10 G5/20 G5

Laboratory- hardness tester with big load range

0.098–612.9 N (0.01–62.5 kgf)
0.002452–612.9 N (0.00025–62.5 kgf)

- Semi automatic
- 3-fold measurement turret – manual
- 6-fold measurement turret – automatic (option)
- Manual cross slide (DuraScan 20 G5)
- 10 Mpix camera
- Vickers ISO 6507, ASTM E384, ASTM E92
- Knoop ISO 4545, ASTM E384, ASTM E92
- Brinell EN ISO 6506, ASTM E10

DuraScan 50 G5/70 G5/80 G5

Laboratory-hardness tester with big load range

0.098–612.9 N (0.01–62.5 kgf)
0.002452–612.9 N (0.00025–62.5 kgf)

- Fully automatic
- 6-fold measurement turret – automatic
- Motorised linear table
- Overview camera (DuraScan 70 G5, 80 G5)
- 10 Mpix camera
- Vickers ISO 6507, ASTM E384, ASTM E92
- Knoop ISO 4545, ASTM E384, ASTM E92
- Brinell EN ISO 6506, ASTM E10

Touch display

The DuraJet G5 covers the complete Rockwell range with its electronic load application. With a load range from 1 to 250 kgf, it offers a wide range of measurement types: in addition to Rockwell tests also plastic- and carbon testing as well as Vickers and Brinell tests (in depth) are possible. Easy operation is ensured by the operating software **ecos** Workflow DuraJet Edition. It guides the user quickly and safety through the hardness test cycle in three seperate stages: from the selection of the test type to the archiving of test results.

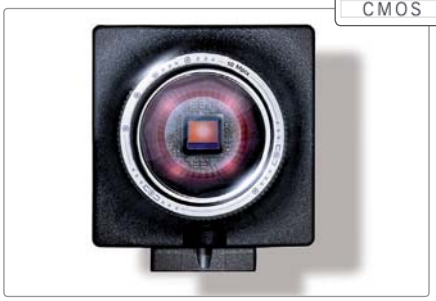
ecos Workflow™ Touch
WITH CALIBRATION INFORMATION SYSTEM

Intuitive operator software – **ecos** Workflow CIS

Logic, transparency and simple operation are the cornerstones for safe and comfortable hardness testing. The workflow principle guides step-by-step through the measuring process. A special feature of **ecos** Workflow CIS is the integrated calibration assistant that monitors all calibrated methods and greatly simplifies the inspection of the hardness tester required by standard.

ecos Workflow™ Pro
WITH CALIBRATION INFORMATION SYSTEM

10.0 MEGA PIXELS CMOS



Innovative image evaluation

The 10 Mpix camera employed in all devices of the DuraScan G5 series sets new standards in image quality. The intelligent use of the high-resolution camera chip allows a 3x zoom without having to accept any loss in quality due to interpolation. This innovative solution allows a broad range of applications to be covered with a small number of lenses. The proven fully automatic evaluation reliably regulates the brightness of the image and automatically evaluates the indentation.

DuraVision 20/30/40

Macro hardness tester with hand wheel

9.8–2450 N (1–250 kgf)
29–7350 N (3–750 kgf)
98–29430 N (10–3000 kgf)

- Brinell EN ISO 6506, ASTM E10
- Vickers EN ISO 6507, ASTM E384, ASTM E92
- Rockwell EN ISO 6508, ASTM E18
- Knoop EN ISO 4545, ASTM E384, ASTM E92
- Plastic testing EN ISO 2039
- Carbon testing DIN 51917
- HBD and HVD methods

ecos Workflow™ Touch
WITH CALIBRATION INFORMATION SYSTEM

A true all-rounder

The turret (optional) can be used freely with various indenters and lenses depending on requirements making the DuraVision a true all-rounder. The 2-step zoom, a standard feature, has made it possible to double the magnification spectrum provided by the lens while maintaining the same high standard of image quality. Hence, you can cover the full range of test methods and hardness values with just a single machine.

DuraVision 200/300/400

Macro hardness tester with motorised test unit positioning

9.8–2450 N (1–250 kgf)
29–7350 N (3–750 kgf)
98–29430 N (10–3000 kgf)

- Brinell EN ISO 6506, ASTM E10
- Vickers EN ISO 6507, ASTM E384, ASTM E92
- Rockwell EN ISO 6508, ASTM E18
- Knoop EN ISO 4545, ASTM E384, ASTM E92
- Plastic testing EN ISO 2039
- Carbon testing DIN 51917
- HBD and HVD methods

ecos Workflow™ Touch
WITH CALIBRATION INFORMATION SYSTEM

Progressive design

The attractive, modern exterior of the DuraVision houses a number of clever features. The use of PLC components is a guarantee for the highest degree of process precision. The modular kit concept enables the DuraVision to be completely tailored to your requirements. The DuraVision is as equally effective in laboratory environment as it is in everyday manufacturing processes.

DuraVision 250/350/450

Fully automatic Macro Hardness testing machine with motorised cross slide

9.8–250 N (1–250 kgf)
29–7350 N (3–750 kgf)
98–29430 N (10–3000 kgf)

- Brinell EN ISO 6506, ASTM E10
- Vickers EN ISO 6507, ASTM E384, ASTM E92
- Rockwell EN ISO 6508, ASTM E18
- Knoop EN ISO 4545, ASTM E384, ASTM E92
- Plastic testing EN ISO 2039
- Carbon testing DIN 51917
- HBD and HVD methods

ecos Workflow™ Pro
WITH CALIBRATION INFORMATION SYSTEM

Quick and simple testing of several work pieces

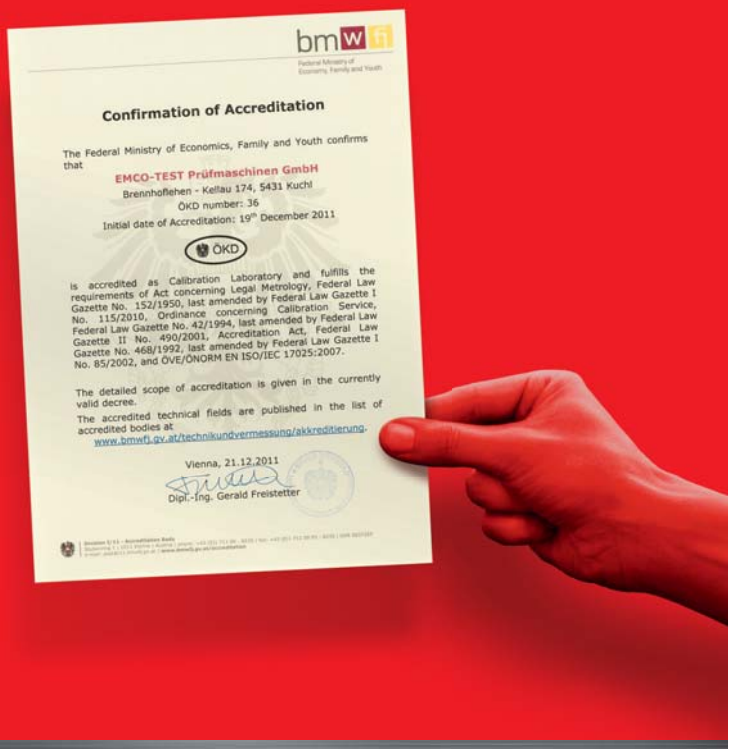
The large traverse paths combined with very quick XY-stage movements facilitate excellent, full automatic hardness testing on a multitude of work pieces. Regardless of whether same parts or parts with different sizes are used, serial measurement is a big strength of the DuraVision. The work pieces that have already been measured serve as master patterns; thus makes the operation very simple. Additional features such as the automatic brightness adjustment or the optimised autofocus are applied in order to maintain a maximum of measurement accuracy and repeatability.

Top quality from Austria – now all from a single source!

Accredited ex-works calibration service ISO/IEC 17025

EMCO-TEST has over half a century of experience in hardness testing to guarantee maximum security. This is why so many Austrian and international customers trust our highest quality and cutting-edge hardness testers.

Our latest service adding to our reputation as the Austrian innovation leader is our own Accredited Calibration Laboratory certified to ISO/IEC 17025 for testing all new and used EMCO-TEST machines to the latest DIN, EN ISO and ASTM standards.
This provides you with full quality assurance from one single source!



The advantages of the EMCO-TEST Calibration Laboratory:

Security ...

1. of accreditation
2. through know-how
3. through quality and reliability

Get to know more about the advantages and details of the EMCO-TEST ex-works calibration service at www.emcotest.com

Benefit from our global sales and service network!

With qualified sales and service partners in over 40 countries, we guarantee top level support for you and your machine.
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Akkreditierung Austria A 0623 ISO/IEC 17025

Accredited ISO/IEC 17025 Calibration Laboratory

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DIN MEMBER

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