Fully automated serial testing – as if by magic

DuraVision
1-3000 kgf
Brinell
Vickers
Rockwell
Supertificial Rockwell
Knoop
Plastic testing
Carbon testing
HBD, HVD

www.emcotest.com
A complete range of hardness testing.
Test load range from 1 kgf to 3000 kgf.

**DuraVision 250**
1–250 kgf

**DuraVision 350**
10–3000 kgf

**DuraVision 450**
3–750 kgf

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### Brinell
According to EN ISO 6506, ASTM E10

<table>
<thead>
<tr>
<th>Load (kgf)</th>
<th>1/1</th>
<th>1/2.5</th>
<th>1/5</th>
<th>1/10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/30</td>
<td>2.5</td>
<td>2.5/6.25</td>
<td>2.5/15.6</td>
<td>2.5/31.25</td>
</tr>
<tr>
<td>2.5/62.5</td>
<td>2.5/187.5</td>
<td>2.5/25</td>
<td>2.5/62.5</td>
<td></td>
</tr>
<tr>
<td>5/125</td>
<td>5/250</td>
<td>5/750</td>
<td>10/100</td>
<td></td>
</tr>
<tr>
<td>10/250</td>
<td>10/500</td>
<td>10/1000</td>
<td>10/1500</td>
<td></td>
</tr>
<tr>
<td>10/3000</td>
<td>HBT (non-standardised)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### Vickers
According to EN ISO 6507, ASTM E384, ASTM E92

<table>
<thead>
<tr>
<th>Load (kgf)</th>
<th>HV 1</th>
<th>HV 2</th>
<th>HV 2.5</th>
<th>HV 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/10</td>
<td>9.8</td>
<td>2450</td>
<td>98</td>
<td>29430</td>
</tr>
<tr>
<td>1/30</td>
<td>2.5</td>
<td>625</td>
<td>2.5/6.25</td>
<td>2.5/187.5</td>
</tr>
<tr>
<td>5/125</td>
<td>5/250</td>
<td>5/750</td>
<td>10/100</td>
<td></td>
</tr>
<tr>
<td>10/250</td>
<td>10/500</td>
<td>10/1000</td>
<td>10/1500</td>
<td></td>
</tr>
<tr>
<td>10/3000</td>
<td>HVD (non-standardised)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### Knoop
According to EN ISO 4545, ASTM E384, ASTM E92

<table>
<thead>
<tr>
<th>Load (kgf)</th>
<th>HK 1</th>
<th>HK 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>49.03</td>
<td>132.9</td>
<td>357.9</td>
</tr>
<tr>
<td>132.9</td>
<td>357.9</td>
<td>961</td>
</tr>
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</table>

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### Plastics
According to EN ISO 2039

<table>
<thead>
<tr>
<th>Load (kgf)</th>
<th>49.03 N</th>
<th>132.9 N</th>
<th>357.9 N</th>
<th>961 N</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/10</td>
<td>9.8</td>
<td>2450</td>
<td>98</td>
<td>29430</td>
</tr>
<tr>
<td>1/30</td>
<td>2.5</td>
<td>625</td>
<td>2.5/6.25</td>
<td>2.5/187.5</td>
</tr>
<tr>
<td>5/125</td>
<td>5/250</td>
<td>5/750</td>
<td>10/100</td>
<td></td>
</tr>
<tr>
<td>10/250</td>
<td>10/500</td>
<td>10/1000</td>
<td>10/1500</td>
<td></td>
</tr>
<tr>
<td>10/3000</td>
<td>HVD (non-standardised)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### Rockwell
According to EN ISO 6508, ASTM E18

- HRA - HRV
- HRC - HRD
- HR30-N/T/W/X/Y
- HR35-N/T/W/X/Y
- HR45-N/T/W/X/Y

- Option 250 • 9.8–2450 N (1–250 kgf)
- Option 350 • 98–29430 N (10–3000 kgf)
- Option 450 • 29–7350 N (3–750 kgf)

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### Carbon testing
According to DIN 51917

<table>
<thead>
<tr>
<th>Load (kgf)</th>
<th>2.5/7</th>
<th>5/7</th>
<th>5/15</th>
<th>5/20</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/10</td>
<td>5.7</td>
<td>10/40</td>
<td>10/60</td>
<td>10/100</td>
</tr>
<tr>
<td>1/30</td>
<td>2.5/15</td>
<td>5/150</td>
<td>5/150</td>
<td>5/150</td>
</tr>
<tr>
<td>5/125</td>
<td>5/150</td>
<td>10/100</td>
<td>10/100</td>
<td>10/100</td>
</tr>
<tr>
<td>10/250</td>
<td>10/100</td>
<td>10/100</td>
<td>10/100</td>
<td>10/100</td>
</tr>
<tr>
<td>10/3000</td>
<td>HBD (non-standardised)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DuraVision 250, 350, 450.
Fully automatic hardness testing.

The sure way of achieving precise results
Evaluation of test indentations is realised via fully automatic brightness adjustment and rapid autofocus. Hence, the greatest possible degree of repetitive accuracy is guaranteed. Furthermore, the DuraVision series applies the test load using the tried and tested closed loop concept.

Saving time by fast test cycles
Fully automatic brightness adjustment, optimised autofocus, rapid turret, swivel body and cross slide movements, plus intuitive operation, all help to reduce test cycle durations. After test completion results and test reports can be imported straight into your company network. Especially when testing samples with different shapes or sizes, the intelligent design of the machine allows adaptations to be made very quickly, thus reducing re-equipping times. Another strength of the fully automatic DuraVision is seen when conducting serial tests on several work pieces, allowing even more valuable time to be saved.

Intuitive software with calibration assistant
The ecos Workflow with Calibration Information System (CIS) software package from EMCO-TEST provides an efficient, intelligent solution for all conventional hardness testing tasks. The user is guided step-by-step through the measuring process all the way to data backup. The intuitive user interface shortens the familiarisation time and reduces operating errors. 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 standards. The assistant indicates when periodic and indirect inspections to ISO and ASTM standards are due, it guides the user through the inspection process and ensures documentation compliant with standards.

Progressive design
Not only does it look good; behind its modern looks the DuraVision also offers lots of special technical features. The use of PLC components is a guarantee for the highest machine availability. Furthermore, the modular kit concept enables the DuraVision to be completely tailored to your requirements. The DuraVision is as equally effective in clinically clean laboratory environment as it is in the dirt of everyday manufacturing processes.
One lens – two magnifications

Intelligent interaction between the optical system and the software with 2-step-zoom has made it possible to double the magnification spectrum provided by the lens - while maintaining the same high standard of image quality. The unique 2-step zoom is a standard feature of the entire DuraVision series, from basic through to high-end. This saves using additional lenses and thus reduces expenditure.

Perfect brightness setting

Manual light setting and the predefinition of various surfaces belong to the past. The powerful lens system ensures in combination with the power LED technology the fully automatic determination of the ideal brightness level for every specimen or part.

Ring light

Optimal lighting for difficult surfaces: Particularly with Brinell tests on soft metals or poor test work-piece surfaces, the use of the powerful LED ring light ensures test indentations can be analysed ideally. Can be used with the lenses 2.5x, 4x and 10x. Rapid mounting: The ring light can be mounted and removed in seconds. Mounting the light could not be simpler.

Ensuring you find exactly the right spot

The ‘precise positioning’ software function allows the positions of all the test points to be accessed by the evaluation camera before the indentations are actually made. If you are not satisfied with the positioning of the individual test points before testing begins, they can very simply be moved and set to a new position. Above all, when testing the hardness on welded parts or sinter metals it’s an unbeatable tool.
Impact protection – also without fixed work pieces

Besides the ability to clamp the work piece according to established standards, the nose cone also provides ideal protection to lenses and indenters. If the two nose cone inserts are removed the lens and indenter are still protected, even without clamping. If dismantling of the nose cone is still necessary it can be removed quickly thanks to an intelligent fastening system similar to a ‘bayonet lock’. Depending on the geometry of the test piece the user can decide whether to use one or two nose cone inserts. Inserts can be changed in seconds – without the need to remove the entire nose cone.

Individual test point information

To adapt the documentation of measured values even better to the needs of the operator, it is possible to add up to 3 information for each hardness measurement individually (e.g., serial number, batch number, etc.). The entry can be made before or after the measurement. This allows a better analysis and traceability of test parts.

Efficient pre-processing – write and load templates using XML files

To eliminate operator influence ecos Workflow CIS offers the option of predefining all relevant test limits, requirements and settings via externally produced XML files. These XML files can be written in an external programme such as Microsoft Excel, independent of the system or location. Stored XML files are loaded as templates into ecos Workflow CIS by the operator. All relevant test limits, requirements and settings, such as the test method, test point coordinates, lens magnifications, conversions and additional info relevant to the work pieces are transferred to each work piece in question. This works with single and multiple work pieces without number limitations. The test results are saved to a selected location in a CSV or XML format. Commonly used statistics programmes can be used to process results accordingly.
The new DuraVision 250, 350, 450.
Automation with absolute precision.

CE protective housing (optional)
Maximum protection and maximum user-friendliness!
The DuraVision with CE protective housing complies with all international CE requirements. Because of the light barrier system it is not necessary to open any protective door to get into the test area of the machine. Thus, user-friendliness is increased without sacrificing safety. When the area between the light barrier is interrupted, the machine stops immediately all active movements and hardness tests. A status-LED indicates when the area between the light barrier is free again and the hardness tests can proceed without problems.

Material and technology
Whether subjected to a 1 kgf or 3000 kgf test load, the rigid cast iron stand guarantees absolute test stability for the entire range of loads. By using precious components and materials we are also able to comply with North American safety standards (control unit ‘UL-listed’ for the highest standards of fire resistance for plastic covers).
Overview camera (optional)

By using a "macro lens" the camera produces a live image of the work piece, thus making it easier to set several test points and complex test rows. An unbeatable tool used in combination with the evaluation lenses!

Motorised cross-slide

The cross slide's broad ranges of x and y axis motion facilitate excellent, full automatic hardness testing. High definition makes it very easy to repeat actions and ensure positioning precision.

Test unit

There are two ways of configuring the DuraVision test unit. Either with the standard swivel body or with an optional 6-fold-turret.

Overview camera Evaluation camera
As simple as possible.  
**ecos** Workflow CIS Pro

Hardness testing software that shows the way.  
**ecos** Workflow CIS technology shows the way ahead. Simple operation of even the most complex automation tasks is becoming increasingly important in the realm of hardness testing. The software takes over the task of directing the increasingly broad range of testing requirements and guarantees simple test object administration and lasting data security. The large proportion of software in the testing equipment allows **ecos** Workflow CIS to make a decisive contribution to the performance capacity and quality of the overall product.

Workflow in five steps:
Specimen, method, position, result and history are the five steps of the intuitive operator software **ecos** Workflow CIS.

1. **Specimen**  
Select a type of test. Single measurements, row testing, CHD, Rht, Nht and Jominy runs are all available options.

2. **Method**  
Select a testing procedure, lens, test method and zoom level; and if required conversions, hardness limits and standardised device corrections.

3. **Position**  
Position your test point or line on the workpiece. Using the tools provided it’s child’s play. Then start the test.
**Single measurements**
This function allows you to set individual test points wherever you like. The test measurement can be started using the surface view or the overview.

**Serial measurement**
One or more test rows with positioning coordinates can be recorded. The measuring process can be started in the surface view or the overview.

**CHD/Nht/Rht measurements**
For the performance of test series for CHD/Nht/Rht data of specimen according to standard. The test can be started directly from the surface view or from the overview. Additional core points of hardness can be defined separately for Nht measurements.

**Jominy tests (optional)**
This is a module that conducts standardised or user-defined test runs on up to 9 Jominy specimens. The Jominy specimen holders are shown on the test anvil overview.

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**Result**
The result is displayed clearly and is available for further uses. If necessary there is also the option of re-measuring either automatically or manually.

**History**
All results are stored permanently in a clear form. The data can be archived in your network, in other systems and used to print out a report with any installed printer.
Serial measurement with DuraVision.
Quick and simple testing of several work pieces.

Time-saving template mode
Work-pieces that have already been measured serve as master template. Their basic settings and parameters (i.e. test methods, conversions) can be applied to other work-pieces. When testing a new work-piece, these settings are automatically imported from the master template. Template creation occurs automatically once a work-piece has been measured and archived. This tool is recommendable when testing work-pieces that all have the same parameters, such as tolerance levels, test methods etc. but may have varying descriptions. Conduct complex testing tasks with a minimum of steps.

Positioning above a fixed reference point
Several test points or rows can be fixed very simply to a defined reference point and saved as a template. Later, this template can be easily placed over the new work-piece and exactly positioned by rotation over the reference point.

Measurements of work pieces with the same requirements
If several work-pieces with the same test requirements are placed and tested on the cross slide, the DuraVision is able to show the full range of its skills. All test parameters are taken from the existing template and transferred to the new work-piece.

Work-pieces of differing heights
Even the concurrent serial testing of numerous work-pieces of different heights presents no challenge for the DuraVision, whether with or without nose cone.
Positioning with the panorama function (optional)

The overview camera processes work-piece sizes of 100 x 125 mm and has a 5-fold zoom. The real-time images of the overview camera enable both single measurement points and complex serial tests and pattern to be positioned with ease. The unique panorama function allows all the test points to be set at one go; even for larger work-pieces. The maximum work-piece size is only restricted by the limits of the motorised cross-slide. The image of the work-piece from the overview camera can be inserted into test reports or archived in company networks.

Jominy tests (optional)

Jominy hardenability tests have never been so quick and easy to do! In the usual, familiar manner, the special ecos Workflow CIS software module guides the operator step-by-step to the required result - even with Jominy tests.

The operator has a choice of two Jominy testing options: standardised or user-defined:

**Standardised testing** provides the operator with a choice between HV 30 and HRC test methods according to EN ISO 642 or ASTM A255. All test parameters, such as the distances between test points, are predefined and guarantee to conform to accepted standards and norms.

**User-defined testing** provides the operator with complete freedom of choice of Jominy tests on work-pieces according to individual requirements. All test methods are available and the operator can define his/her own pattern of test points and gaps. Furthermore, it is also possible to set up several parallel test rows on a test surface.

When performing Jominy tests 1-fold and 3-fold sample holders can be used. The cross-slide can be equipped with a total of 3-sample holders, enabling up to 9 Jominy specimens to be tested concurrently. The result is portrayed with all relevant hardness scores in a clearly structured, standardised test report.
Modern data management with ecos Workflow CIS. Simple and secure handling of data.

Efficient data management
The vast number of measured values created during the course of comprehensive quality assurance demands highest levels of precision and availability from computerised QA systems.
In order to guarantee continuous documentation and reliable allocation of measured data to the respective workpiece, all DuraScan G5 models offer extensive possibilities for data output and backup.
In addition to storing of the test results directly at the hardness tester, all the data collected during the test can also be saved as files in .pdf, .xls (Excel) or .xml format. The output in .xml file format allows simple interfacing to Q-DAS systems. The integrated Export Editor offers extensive adaptation possibilities. In addition to the scope and sequence of the exported measurement data, a new file can also be generated automatically after each measurement, thus significantly simplifying the automatic further processing.

ecos Workflow xCHANGE
The xChange interface forms part of the standard configuration of all hardness testers of the DuraScan and DuraVision Series. This facilitates implementation of practically all customer-specific requirements for connecting the hardness tester to databases and data input devices, as well as fully automatic or unmanned operation. Since ecos Workflow xCHANGE is based on the established XML format, interaction with it is simple and structured.
Create customised test reports.

Whether using standardised forms of *ecos* Workflow CIS or company-specific test reports, the flexible and extremely convenient form and report generator enables you to generate your own documents and test reports.

- Add your corporate logo to the test report
- Separate fields for specimen descriptions and test parameters
- Macro view of specimen image with test point labeling (only possible with the overview camera)
- Other freely definable fields
- Bar charts, statistics, line graphs etc.
- Space for test reading tables, statistical information etc.
6-fold turret
A true all-rounder. The turret can be used freely with various indenters and lenses depending on requirements making the DuraVision a true master of all trades. Hence, you can cover the full range of test methods and hardness values with just a single machine.
Extremely fast: Not only does the 6-fold turret rotate at a great speed, it also recognises the shortest rotation way to the selected position.
No collisions: Along with the nose cone, the turret, indenters and lenses are well protected from unwanted contact with the test piece.

CE-housing
CE conformity: There is innovative DuraVision CE protective housing available in order to conform to international CE regulations.
Protection and user-friendliness: The test area of the DuraVision is easily accessible on the front of the transparent housing and made safe with a unique light barrier system. As well as guaranteeing maximal safety, also during a test run, there is always an unrestricted view of the test area. This uniquely open design ensures operation is both convenient and user-friendly, particularly when loading and unloading test objects.

Overview camera
Everything at a glance: The overview camera generates an overview image (field of view 125 x 100 mm) of the work-piece. Single test points and complex test series can be placed on top of work-pieces in just a matter of seconds.
Keep everything in view: Furthermore, the overview camera patterns, guiding lines, reference lines and resetting options for edges can be displayed and placed on top of the test piece. The image from the overview camera can also be saved and printed in test reports. To increase sub-areas and to be able to position test points even more accurately, the overview camera also has a 5-fold zoom function.
What you also need.
The right indenters and lenses for your needs.

Indenters
EMCO-TEST offers a whole range of indenters. All certified indenters comply with international standards EN ISO or ASTM. Select the correct indenter for your tests.

Lenses
Principally, the smaller the test load required - the greater the degree of magnification. A wide range of lenses you can find in our accessories catalogue.

Set-up assistant
The standard set-up assistant helps to reconfigure your hardness tester. It guides you through the most important settings such as upgrades, add-ons and exchange of lenses and indenters.

The complete accessories catalogue at www.emcotest.com
Go to www.emcotest.com for the entire range of accessories for the DuraVision hardness testing machine, including the complete range of indenters (incl. certificate acc. to EN ISO/ASTM), special test anvils, adapters for additional indenters, lenses, etc.
Our strategy

With the vision of building machines that don’t simply do everything, but do everything simply, Ernst Alexander Maier developed EMCO-TEST from the inheritance of his father and company founder into the world technology leader in the field of hardness testing. Today we are the largest manufacturer of hardness testing machines with the most modern and most efficient technologies in Europe. True to our mission of making everything to do with hardness testing simpler, we offer comprehensive solutions for all these tasks from a single source: Development, production, calibration, consultation and supplementary services – complete coverage of all important issues. This means competence in all aspects of hardness testing:

360° FULL SERVICE COMPETENCE.
Accredited calibration laboratory to ISO 17025
In order to comply with international standards, for reproducibility of measurement results and for comprehensive documentation of the test cycles, EMCO-TEST offers accredited calibration in accordance with EN ISO / IEC 17025:2007. Our accredited calibration laboratory ensures that the services offered always represent the state-of-the-art of the standards and technology.

Premium quality with certified quality promise (ISO 9001)
In order to ensure that only perfect quality is supplied to you, every EMCO-TEST testing machine is thoroughly and stringently tested before delivery. The ease of service is taken into consideration right from the beginning in the design phase. The results are menu-driven fault detection, integrated self-diagnosis and modular exchange of electronic components that ensure the remedying of faults in a minimum of time. Software updates that take into consideration changes in standards or optimise future processes ensure high investment security for you.

Service App
With the EMCO-TEST Service app, you can quickly and easily send a service message around the clock and from anywhere in the world. The app guides you step-by-step in easily creating your service message. This ensures that our service technicians receive all the relevant data on the machine and can quickly provide assistance in an emergency. These and many other functions await you in our EMCO-TEST Service app.

Remote Support
The TeamViewer Client integrated as standard can be started directly from ecos Workflow CIS and offers the optimum basis for perfect online support worldwide. This software allows remote maintenance as well as the sharing of the screen contents with other computers, e.g. for training purposes (internet connection required).
## General technical details:

<table>
<thead>
<tr>
<th>Feature</th>
<th>DuraVision 250</th>
<th>DuraVision 350</th>
<th>DuraVision 450</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test anvil</td>
<td>Motor-driven X &amp; Y limits: 400 x 290 mm 400 mm</td>
<td>Motor-driven X &amp; Y limits: 400 x 290 mm 400 mm</td>
<td>Motor-driven X &amp; Y limits: 400 x 290 mm 400 mm</td>
</tr>
<tr>
<td>Max. work-piece weight</td>
<td>50 kg</td>
<td>50 kg</td>
<td>50 kg</td>
</tr>
<tr>
<td>Dimensions (W x H x L)</td>
<td>900 x 1200 x 1100 (mm)</td>
<td>900 x 1200 x 1100 (mm)</td>
<td>900 x 1200 x 1100 (mm)</td>
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<tr>
<td>Space required (W x L)</td>
<td>900 x 1800 (mm)</td>
<td>900 x 1800 (mm)</td>
<td>900 x 1800 (mm)</td>
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<tr>
<td>Basic machine weight</td>
<td>approx. 450 kg</td>
<td>approx. 450 kg</td>
<td>approx. 450 kg</td>
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<tr>
<td>Test height</td>
<td>310 mm</td>
<td>310 mm</td>
<td>310 mm</td>
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<tr>
<td>Throat depth</td>
<td>255 mm</td>
<td>255 mm</td>
<td>255 mm</td>
</tr>
<tr>
<td>Test unit speed</td>
<td>120 mm/s (X/Y)</td>
<td>120 mm/s (X/Y)</td>
<td>120 mm/s (X/Y)</td>
</tr>
<tr>
<td>Accuracy X-/Y-axes*</td>
<td>0.005 mm</td>
<td>0.005 mm</td>
<td>0.005 mm</td>
</tr>
</tbody>
</table>

### Included software modules
- Ecos
- Ecos Change
- Ecos Image
- Ecos ID-C
- Ecos IO
- Ecos MoD
- Ecos SMe
- Ecos Test
- Ecos TML

### Optional software modules
- Ecos Change
- Ecos Image
- Ecos ID-C
- Ecos IO
- Ecos MoD
- Ecos SMe
- Ecos TML
- Ecos Test
- Ecos TML

*Positioning accuracy total from X, Y, Z axes and swivel body < 0.025 mm.

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**FULLY AUTOMATIC**

- **Lens and indenter protector**
- **Nose cone contact surface**
- **Operator software languages**
- **Room Temperature (acc. to ISO/ASTM)**
- **Humidity**
- **Voltage (V)**
- **Max. voltage variance**
- **Max. power feed**
- **Main fuse (110–230 V)**
- **IP code EN 60529**

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**DuraVision Product brochure**

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*Find the right option.*
ecos Workflow software modules:

ecos Workflow IMAGE facilitates fully automatic image evaluation using integrated autofocus.

ecos Workflow CHD-C facilitates the generation of CHD, Nht and Rht series (motor-driven X-Y cross slide).

ecos Workflow RING LIGHT enables Brinell tests to be made on soft metals on poor workpiece surfaces.

ecos Workflow 2nd CAMERA facilitates the display of an overview image with test point distribution, grid, guiding lines and work-piece images in the test report.

ecos Workflow MULTIPLE SPECIMEN allows several work-pieces to be set up at the same time. These specimens can be freely positioned in magazines or multiple-specimen holders.

ecos Workflow JOMINY allows Jominy test series to be set up.

ecos Workflow EXPORT EDITOR Software module for individual amendment of export data. Inclusive automatic data- and image- export from the hardness tester to an external PC (Image: .jpg, data: .txt, .csv, .xls, .xlsx)

ecos Workflow xCHANGE is a program interface which allows the access to all relevant functions and data of the hardness tester. Thus, an easy integration of the hardness tester in existing solutions for data management or automation systems is possible.

ecos Workflow areaMASTER offers additional tools for area based tests on a specimen. It includes a module for the creation and presentation of the hardness spreading on a tested area and a function for automated scanning of the edges of the specimen.
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. You can find your local dealer on our website www.emcotest.com.