

## DuraScan - It can't get any easier!

DuraScan is a hardness testing system with unique test load range from 10 gf to 10 kgf, covering many applications. Fully automatic test cycles and hardness evaluation ensure the highest repeatability and reproducibility. Available in five models:

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### DuraScan-50, -70 and -80

**Vertical concept**  
The motorized Z-movement gives flexibility in specimen height

**PC operated**  
With ecos Workflow™ software

**6-position turret**  
Fully automatic turret and optional overview camera

**Motorized X-stage**  
Facilitates large specimen-sand holders for up to 12 specimens

**Stable machine base**  
A granite base plate offers stability and minimizes vibrations

### DuraScan-10 and -20

**Innovative design**  
The sturdy design minimizes vibrations and allows for easy service

**Built-in PC**  
The built-in PC offers connections for data export and service

**Vertical concept**  
The motorized Z-movement gives flexibility in specimen height

**3-position turret**  
The manual turret lets you swivel in indenter or lens easily

**Fixed test anvil**  
The test anvil is fixed in position and mounted on a stable machine base plate

**Touch screen operated**  
The 8.4" colour touch screen and the ecos Workflow™ compact software guarantees ease of use

**Autofocus is standard on all models**

### Workflow based software (ecos Workflow™) for easy and intuitive operation

The user interface in DuraScan is based on a concept that follows the natural sequential steps related to the hardness test, i.e. preparing and setting up the test, executing the test, reviewing and editing the results, and managing and reporting the data. In other words, with each tab-page in the software representing each step in the hardness testing workflow the software follows and guides you through the natural workflow in the test lab, prompting you to input information when needed.

Read more about the new [DuraScan](#).

Examples from ecos Workflow™ software in DuraScan-10 and -20



Setting up specimen, incl. naming and generic information



Determination of test method and procedure



Positioning of test point(s) and execution of test



Display and review of results

## Application

Struers application knowledge represents a cornerstone in our daily work - wherever it is, inside or outside the company. We offer a wide range of tools to share our knowledge, from on-line courses to group courses and seminars.

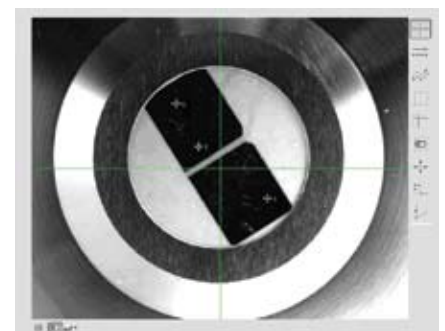
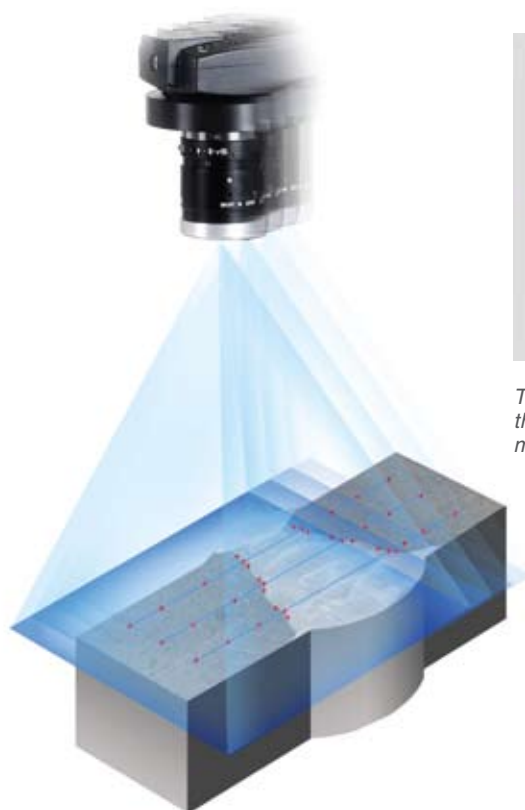
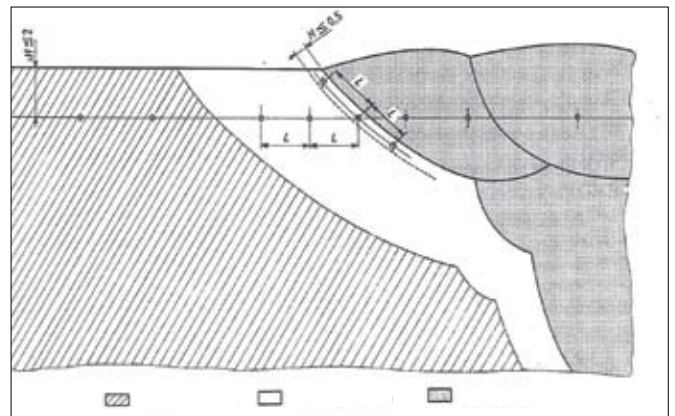
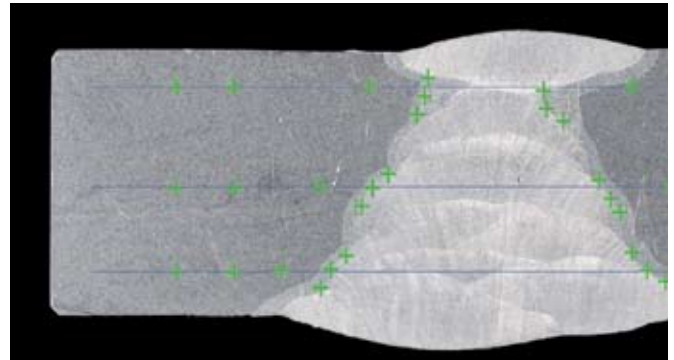
### Welds

DuraScan makes it possible to perform fully automatic testing of welds using test methods HV5 and HV10. The optional overview camera (DuraScan-70/-80) enables the user to see the entire sample in the macro view and easily place and align the test points in accordance with the sample geometry.

Typically, a line or series of indentations is made a few mm parallel to the sample edge across the sample surface. In particular the hardness around the heat affected zone (HAZ) is of interest, as too high hardnesses might incur risks to the strength of the weld. As the measurements usually are performed over a large area or long distance, they can be difficult to carry out under a normal high magnification objective lens.

With a fully automatic DuraScan hardness tester with the low magnification overview camera option you have the possibility to easily position and execute your test series, with just a few mouse clicks. You can also save your test point patterns as templates for future use. All this will save you valuable time during both setup and execution of the test series. Testing of welds is usually performed using HV5 and HV10, making DuraScan the obvious choice.

Testing of Welds



The overview camera allowing you to view the entire sample and place test points via mouse clicks

## New products

Struers covers the entire range of equipment and consumables for materialographic specimen preparation - from uncomplicated manual machines to sophisticated computerized preparation solutions. Struers is constantly working on improving existing and developing new products.

### LED-light in Labotom-3

We have introduced LED light in the cutting chamber of Labotom-3. The lamp gives a very good illumination of the area, where clamping of the workpiece takes place, and the light facilitates monitoring the cutting operation through the large window in the protection guard.



### Sample Chair holder for CitoVac

We are pleased to introduce a new holder to CitoVac for Sample Chairs used in the TargetSystem. The holder has holes for 6 x 30 mm and 5 x 40 mm Sample Chairs.

The holder is delivered with a support for safe storage when it is not placed in CitoVac.



### New Bowl liner

A bowl liner for our 200 mm dia. grinding/polishing machines TegraPol-11, -15 and LaboPol-1, -2, -4, -5, -6 is now available. The transparent insert is placed in the bowl of the machine, and collects the dirt that normally would stick to the walls of the machine. The bowl liner can easily be removed and disposed of, or if it is cleaned frequently, it can be used for a period of time before it is discarded.

### New cloth, MD-Mol APS

We have extended our MD product range with a new polishing cloth, MD-Mol APS which is specifically developed for large automatic preparation systems.

The new MD-Mol APS cloth has a thicker adhesive layer than DP-Mol which increases resilience and thereby minimises the risk of destroying the cloth during cloth run-in. The increased resilience does not influence specimen planeness noticeably.

MD-Mol APS can substitute a normal MD/DP-Mol without changing the dosing levels of the suspension/lubricant. As the MD-Mol APS is developed to be used on the AbraPol and MAPS it is available in 300 mm dia. and 350 mm dia only.



Read more...

about all our new products on  
[www.struers.com/newproducts](http://www.struers.com/newproducts)

