



Rockmore

Application example

EMCO·TEST
WISSEN IST SICHERHEIT



This application example has been prepared in cooperation with our customer Rockmore International (Judenburg/ Austria).

We would like to express our gratitude again for the fantastic cooperation and the trust shown to our company.

Requirements on the hardness testing machine:

The hardness tester was actually purchased because of the raising number of tests (approx. 16.500 indentations per year). Due to the obtained full automation of the test runs the expenditure of time could be reduced quite massively. Furthermore, modern data management as well as the corresponding report possibility were requested.

- The hardness tester DuraScan 70 is equipped with an automatic X-/Y-cross slide, motorised z-axis and 6-fold turret.
- In addition to the 2 lenses a Vickers indenter is mounted in the turret
- Automatic focus and evaluation are integrated in the ecos Workflow Software
- The DuraScan is fitted with an overview camera for faster edge detection and test part documentation
- As a result of the integrated multiple sample module, it is possible to make up to 6 embedded tests

Example of a test specification and its performance:



Specifications:

- CHD series measurement on heat treatment samples
- Hardness limit: HV 550 (HRC 52.3)
- Tolerable case hardness depth limit: min. 1.2 to max. 2.4 (mm)

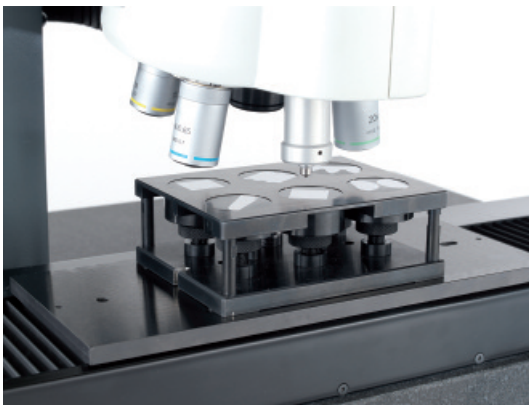
Measuring process

The operator uploads a test pattern which is saved under templates. He then defines the required settings according to the well proven ecos Workflow principle. Generally the same test point patterns are used which means that an extremely high level of automation can be achieved. The patterns only get changed or adapted in the test point editor for special research or analysis.

The case hardness depth is determined by the automatic movement to every position of the particular test point pattern.

Highest level of automation:

By using individually created templates the operator saves time on the complex and time consuming software settings. The samples are fixed in a 6-fold sample holder which enormously facilitates the positioning of the test patterns and saves time.



Generating the test report:

The operator generates a customised test report which is filed in the company network. Information such as CHD value, edge distance, line diagram and testing machine are displayed in the report.

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