

**M1C010-DR**

**Example for application**

**EMCO·TEST**  
YOUR FACTOR OF SAFETY.

This example for application was created in cooperation with "Bosch" (Hallein/Austria)

On this occasion we would like to thank again for their cooperation and the trust they have put in us!

## Customer requirements to the hardness tester:

- The hardness tester serves to determine all common Vickers small loads and the case hardening depth (CHD). The hardness tester is equipped with a motorized xy slide, automatic evaluation, turret head, LED objectives, automatic focusing and a second camera (for quick edge recognition).

## Execution of the hardness testing operation:

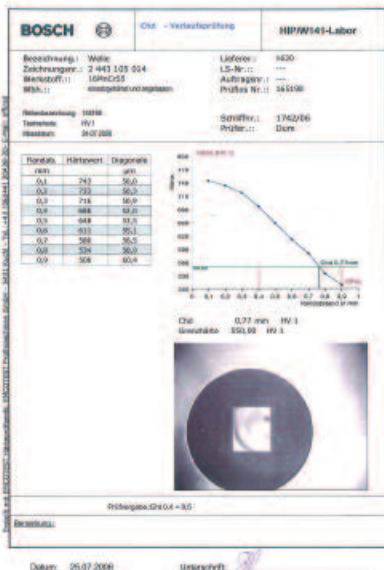


- The embedded sample is fixed in the 40 mm sample holder. Then the operator selects the requested test sample together with the test method and the test duration. He defines the storage folder and starts the measurement via the second camera.

The display of the overview image, having a size of 40 x 50 mm or optionally 54 x 68 mm, makes it possible for the user to easily define the test points at the workpiece to be tested, to record the test points by means of a photo at the report and to save them in a database. In addition, starting points of series and free test points can be directly defined by means of the overview camera.

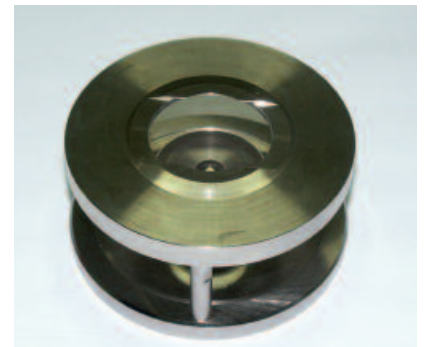
## Evaluation of the case hardening depth:

- The respective test report is saved for every component. This report contains the case distances, the indentation diagonals, CHD values as well as freely definable user fields.



## Safety in detail:

- 4 magazine positions can be loaded as requested by means of the turret head. Within a measurement row you can choose among several objectives for evaluation.



## Technische Daten:

- M1C010-DR turret head hardness tester
- NDV28007Z Vickers indenter
- M1Z00DG2 1300x objective
- M1Z00EG2 2400x objective

- Workpieces: embedded machined specimens
- Test points: series testing starting from the case
- Test method: mainly HV1
- Customer: Robert Bosch AG Hallein

## EMCO-TEST Prüfmaschinen GmbH

A-5431 Kuchl-Salzburg/Austria  
 Brennhoflehen-Kellau 174  
 Telefon +43 62 44 20 4 38, Fax +43 62 44 20 4 38-8  
 E-Mail: office@emcotest.com, www.emcotest.com