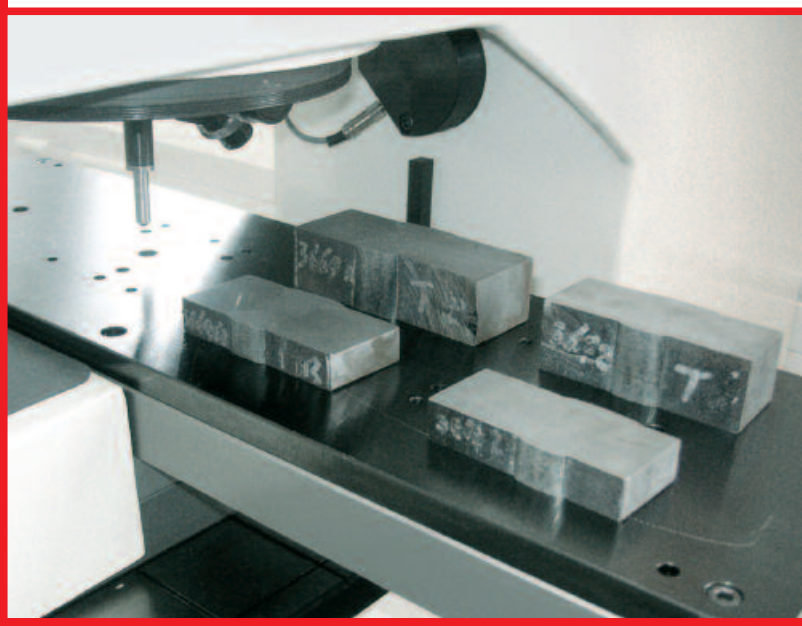


M4C 250 XY

Welding samples – Example for application

YOUR FACTOR OF SAFETY.

LIEBHERR

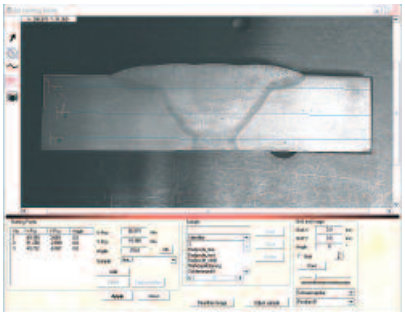
This example for application was created in cooperation with “Liebherr” (Austria)

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

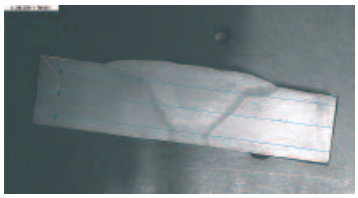
Customer requirements to the hardness tester:

- The basic requirement for the purchase of the hardness tester was the 100% fully automatic sequence of testing at the component.
  The problem in the past was the impossibility to arrange the test points flexibly. In most companies the following happened: The customers took a pencil to draw a line with the corresponding distances. The test positions were marked, then the markings were manually travelled to and measured. This means a considerable expenditure regarding sample preparation and travelling to test points.

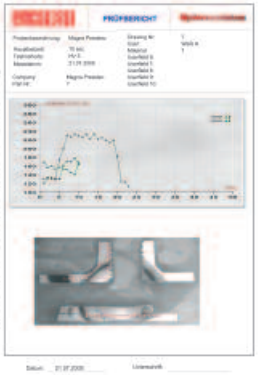
Execution of the hardness testing operation:

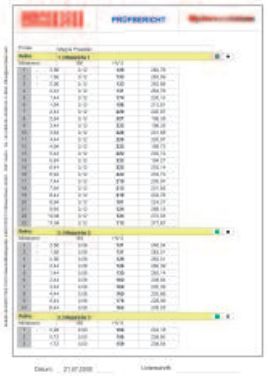


- Today it is easily possible to travel along this complex, welded-joint-specific structure according to customer requirements through the supporting open software structure, as this example explains. In the picture on the right you see a purple angle.
  This angle fixes the three measurement rows on top of each other. By moving the cursor (cross) all three measurement rows can be shifted simultaneously and placed as required.



- The angle, respectively the starting point, can be rotated by 360°. For this reason it is also possible to place and measure the component in a slanted position. At the moment the screen shows only lines however, there is a function included in the software to display the test points. With this function you are able to move all measurement points visually.





- Cleary structured measurement reports. Exact assignment of test points to the saved component picture. The second page provides detailed measurement information.
  Regarding the investment the hardness tester pays off within a relatively short time, since the testing is 100% fully automatic. This means that the operator can deal with his daily routine during the testing process.

Technical Data:

- M4C 250 — X/Y swivelling version
- M4Z 531 — X/Y slide
- M4Z 537 — CE - protective housing
- ecos 000-3 — ecos BASIS
- ecos 010 — ecos IMAGE
- ecos 040 — free rows/ multiple test specimens
- ecos KM2 — ecos 2nd CAMERA

- M4Z 00B — objective 320x (for HV 5)
- M4Z 00A — objective 130x (for HV 10)

Workpieces to test:	welding samples
Test points:	cut surface of the sample
Test method:	HV 5 and HV 10
Customers, e.g.:	Liebherr (Austria)

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