

e•brio

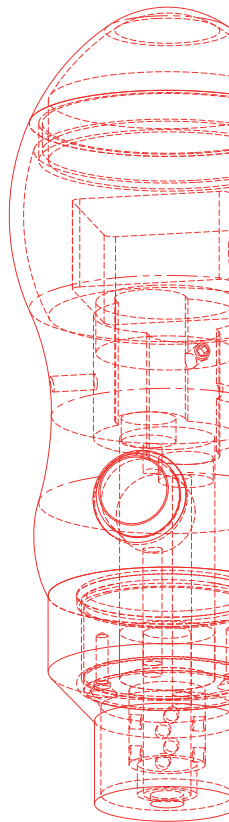


EPNST

Presents

e•brio

Optical Brinell
Scope



The Brinell test is of basic importance in many areas of quality control, but often inaccurate readings and long test cycles have a negative impact on productivity.

Ernst e • brio overcomes all these problems allowing automatic and accurate readings without any operator influence on the measurements. The magnified indentation on the screen also permits detection of any defect in the surface finishing or the indentation.

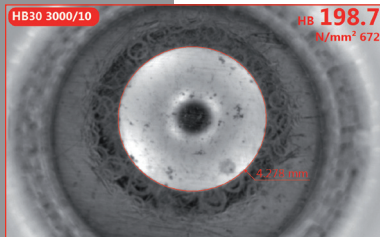


With eobrio the indentation reading is made in a few seconds with a resolution of 0.001 mm, thus quickly measuring and recording the correct Brinell hardness

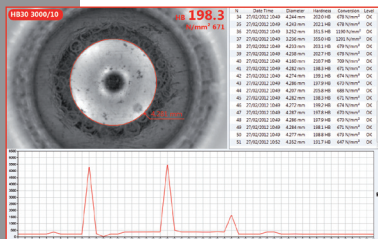
Any operator simply needs to place the scanning head on the indentation and the live image will be immediately displayed; then, just click the button to take a snapshot and the indentation is measured

ERNST e•brio eliminates any operator error in Brinell indentation reading



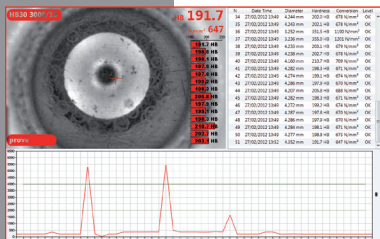


With the first click the software will identify the circle that best fits on the indentation edge, draws it over the indentation image, records its diameter and calculates the Brinell number



With a second click, the value is confirmed

All measurements can be stored in files and charted; optionally the system can calculate statistics in a file



It is possible to enter up to five (5) tolerance levels makes the evaluation of the results easy and immediate.

On the main screen, the software shows a graph with the last tests made and calculates the average on a given number of consecutive readings





ERNST eobrio is the sole Brinell automatic optical reader with special software able to read such impressions, since the conversion tables can be updated at any time when the characteristics of the material used to build pins changes.



ernst

A) e•brio with TABLET PC

The system includes:

- PC Tablet
- Scanning head with internal infrared LED lighting and USB connector
- Windows 7 based software for automatic reading of the indentation
- High resolution camera, especially selected for optical Brinell reading, built in the scanning head
- Testblock with reference indentation
- Connection cables
- Operator manual

B) e•brio with DESKTOP PC

The system includes:

- PC Desktop
- Scanning head with internal infrared LED lighting and USB connector
- Windows 7 based software for automatic reading of the indentation
- High resolution camera, especially selected for optical Brinell reading, built in the scanning head
- Testblock with reference indentation
- Connection cables
- Operator manual

C) e•brio with LAPTOP PC

The system includes:

- PC Laptop
- Scanning head with internal infrared LED lighting and USB connector
- Windows 7 based software for automatic reading of the indentation
- High resolution camera, especially selected for optical Brinell reading, built in the scanning head
- Testblock with reference indentation
- Connection cables
- Operator manual



TECHNICAL DATA

- Dimensions: h 170mm - Ø 66mm
- Weight: 0.750kg
- Camera resolution: 752 x 480 Pixel
- Diameters range: 0.7 – 5.0 mm

The user can create files, each file will be constituted by a series of parameters that will form the working environment

Data file parameters:

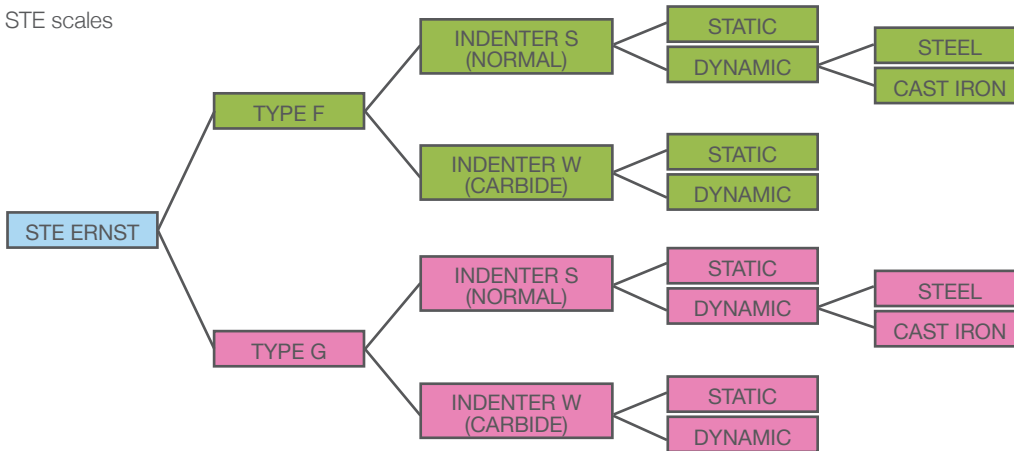
- File name
- Five descriptive fields with possibility to modify the name
- Conversion of the measured value in other scales selectable from those available:
HRA, HRB, HRC, HRD, HRE, HRF, HRK, HRG, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HV, N/mm², kg/mm²
- Possibility to set the automatic average of the values obtained after n tests
- Five tolerance levels
- Histogram and statistical calculations display
- Graph display with test n° on the x-axis and measured value on the y-axis
- Control/calibration of the instrument with reference indentation testblock
- Print certificate of done work with possibility to enter customers data and logo
- Storing image impressions, with the possibility of measure them again at a later stage
- Choice between two groups of scales: Brinell or STE



Brinell scales

Ball diameter (mm)		Load (kp)		
10,0	3000,0	1000,0	500,0	250,0
5,0	750,0	250,0	125,0	62,5
2,5	187,5	62,5	31,2	15,6
Scale	HB30	HB10	HB5	HB2,5

STE scales



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