

e•brio

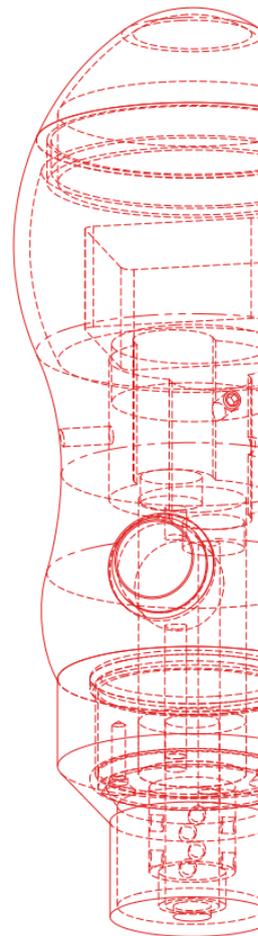


EPASST

Presents

e•brio

Digital Brinell  
Microscope



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

**Ernst e** • brio digital Brinell microscope all these problems allowing quick, automatic, and accurate readings with no operator influence on the measurement. The magnified indentation on the screen also permits detection of any defect in the surface finish or the indentation.

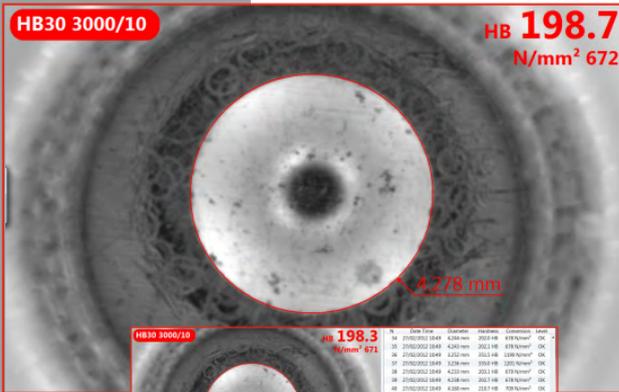


ERNST e•brio is digital - it eliminates any operator error in Brinell microscope indentation readings.

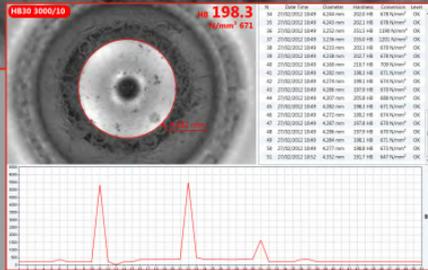
With e•brio the Brinell indentation reading is made digitally in a few seconds with a resolution of 0.01 mm, quickly measuring and recording the correct Brinell hardness values on indentations measuring 0.7-5.0 mm.

Any operator simply needs to place the Microscope head on the indentation and a live image will be immediately displayed; then, just click the button to capture the image and the indentation is digitally measured.

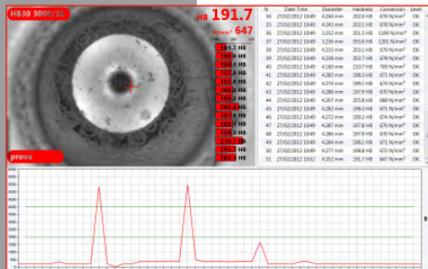




With the first click the electronics identify the circle that best fits the indentation edge, automatically draws it over the indentation image, records its diameter, and calculates the Brinell number.



With a second click the value is confirmed.

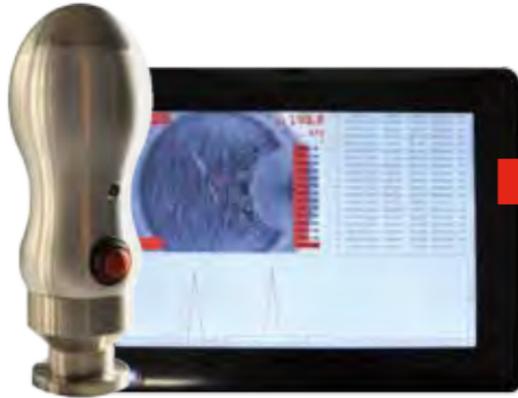


All measurements are automatically stored in files and charted; optionally the system can calculate statistics in a file.

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



The software provides a multitude of scales and the ability to measure directly the impression made with calibrated pins through our ERNST STE Pin Brinell equipment.\*



\* ERNST is the sole manufacturer of calibrated pins and of the conversion tables between the impression's diameter and the related Brinell number.  
ERNST e•brio 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 change the characteristics of the material used to build pins.



#### 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:

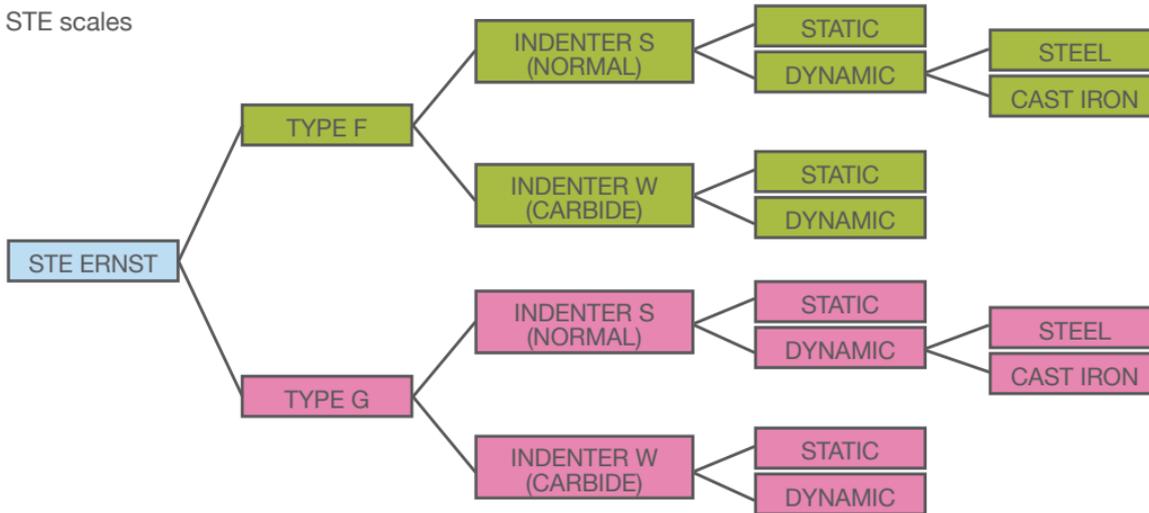
- PC Laptop
- Scanning head with internal infrared LED lighting and USB connector
- Windows 7 based software for automatic reading of the indentation
- High resolution camera, especially selected for optical Brinell reading, built in the scanning head
- Testblock with reference indentation
- Connection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



## 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



ERNST HÄRTEPRÜFER SA  
www.ernstsa.com  
Strada Cantonale CH-6814 Lamone Switzerland

In USA: Quality Solutions, 1015 Old Forest Rd., Corydon, IN 47112  
www.qs-hardnesstester.com, info@qs-hardnesstester.com  
1-812-704-5491

■ Tel. +41 91 966 21 81 ■ Fax. +41 91 966 97 35 ■ info@ernstsa.com