

EAGLE 3000 I MAIN FEATURES

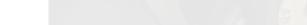
EAGLE 3000 is a Brinell hardness tester that performs hardness testing with test forces in the range 306.5 N to 29420 N (from 31.25 to 3000 kgf) in accordance with the standard EN ISO 6506, ASTM E10 for Brinell tests and allows to easily select the test force.

During any test, in any moment, the operator can get back to the procedure, whether to continue with a test sequence, to perform a specific test or to start a new sequence.

- EAGLE 3000 is conceived to allow repairing and maintenance in a fast and easy way, just by removing the test head.
- The software allows a completely automatic measurement of all indentacions.
- The high precision 45° automatic rotating turret supporting penetrator and lenses allows to position exactly the impression's image on the screen for further measures.
- EAGLE 3000 is equipped with an integrated industrial PC with Windows platform, a 5MP Ethernet camera and a wide touch-screen.
- An additional display on the test head shows the applied load and loading time.
- EAGLE 3000 is endowed with an automatic safety system which can detect extraneous objects (eg. operators hand) and immediately retract the test head along with a number of other safety systems studied for the operators protection (eg. test piece not correctly positioned on the anvil).
- EAGLE 3000 can send data to a printer or on a network. Every impression's image can be stored allowing a measure checking even a long time after the protocol emission or the data distribution through the net.
- EAGLE 3000 allows to set up the interface in English, French, German or Italian. Further languages are available on request.

EAGLE 3000 is designed to test specimens with a wide range of shapes and dimensions.











STANDARD ACCESSORIES

1 Objective lense 0.7x
1 Objective lense 3x
1 Brinell penetrator: ball 2,5mm
1 Brinell penetrator: ball 5mm
1 Brinell penetrator: ball 10mm
1 Brinell test block YAMAMOTO HB3000/10
1 Flat anvil Ø 60mm
1 Flat anvil Ø 120mm
1 V-anvil for rounds Ø 12-90mm
1 V-anvil for rounds Ø 27-200mm
1 Set of keys
1 Case for accessories

ACCESSORIES ON REQUEST

Basements with dimensions on request Objective lenses with higher magnification

Spare balls
Flat anvil ø 200mm
Special anvils on request
Kit of plugs for floor fixing
USB printer with connection cable



EAGLE 3000 I TECHNICAL DATA

■ Working principle:

Brinell

Norms and certifications:

EN ISO 6506, ASTM E 10

Reading:

direct on industrial touch-screen monitor

Display:

20" 1600 x 1200 px

Lenses:

0.7x - 3x

Penetrator and lens selection:

Automatic by touch-screen through revolver system

Resolution:

0.001mm

Reading:

Automatic / Camera resolution 2560 x 1920 pixel

Camera:

5 MP

Loads:

31.25, 62.5, 125, 187.5, 250, 500, 750,1000, 3000 Kgf (306.5, 612.9, 1226,1839, 2452, 4903, 7355, 9817, 29420 N)

Load application method:

Brushless electric engine working in closed loop with load-cell

Load selection:

Automatic by touch-screen

Load time:

Selectable by touch-screen

Scale selection:

Automatic by touch-screen

Incorporated scales:

HBW 2.5/31.25 - HBW 2.5/62.5 - HBW 5/62.5 - HBW 5/125 - HBW 2.5/187.5 - HBW 5/250 HBW 10/250 - HBW 10/500 - HBW 5/750 - HBW 10/1000 - HBW 10/3000

Other scales:

HBW 5/31.25 - HBW 10/100 - HBW 10/125 - HBW 10/1500

Output interfaces:

USB 2.0, Ethernet

■ Working area dimensions:

H max 1.200 mm

H max with eleavting screw 600 mm

H max with intermediate bench and w/oelevating screw 800 mm

P 300 mm

Power supply:

230V 50Hz

Power consumption:

Working temperature conditions:

0-50°C

Gross weight:

835kg

Net-weight:

800kg

Dimensions:

H 2046mm

W 1303mm (with extended monitor)

L 752mm

Security systems:

Test head stops and retracts automatically in case it is hit or in contact with a soft object



ERNST HÄRTEPRÜFER SA





