

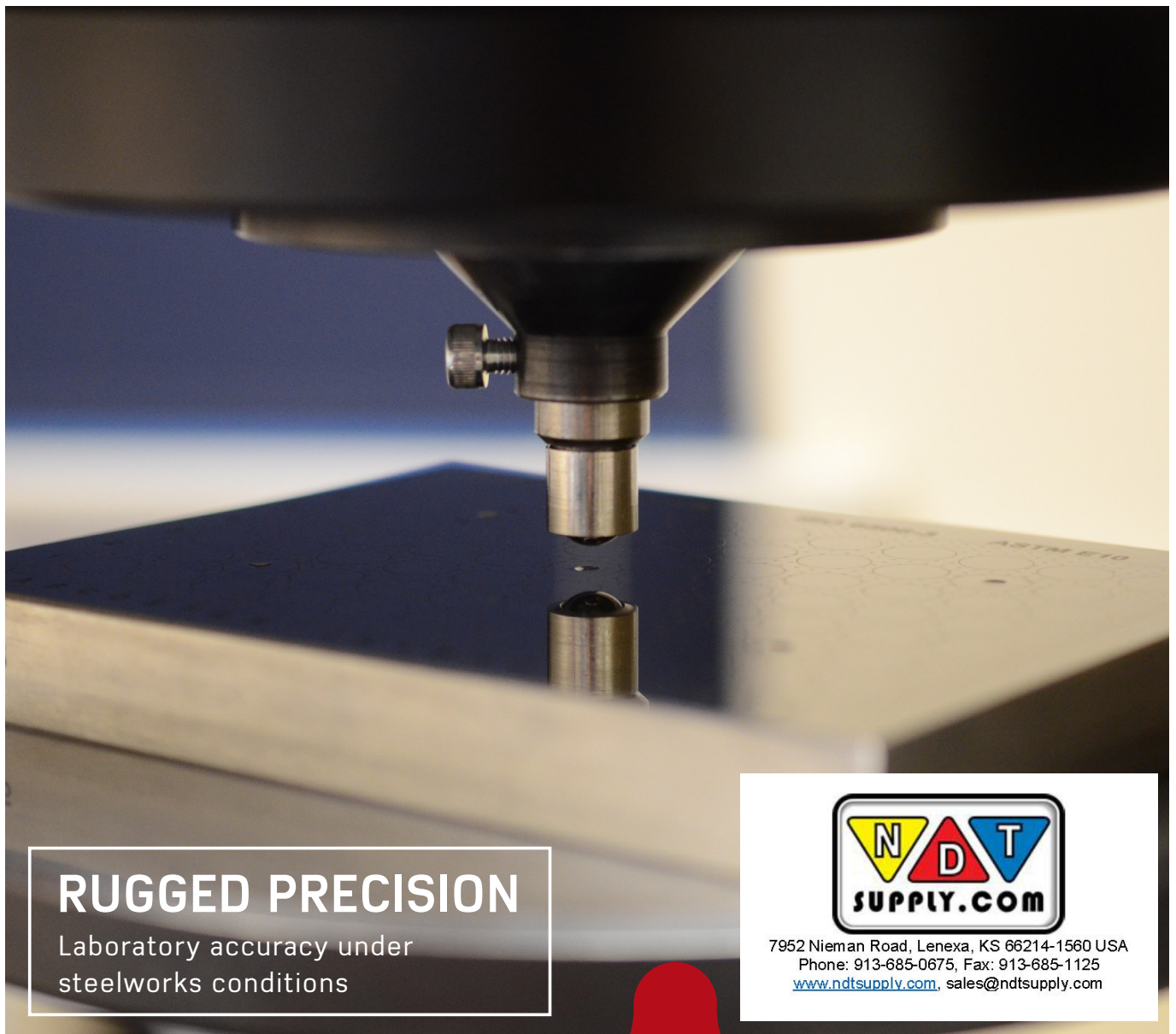


0231

# FOUNDRA<sup>X</sup>

## Brinell Hardness Reference Blocks

Supplied With UKAS Certificates Of Calibration

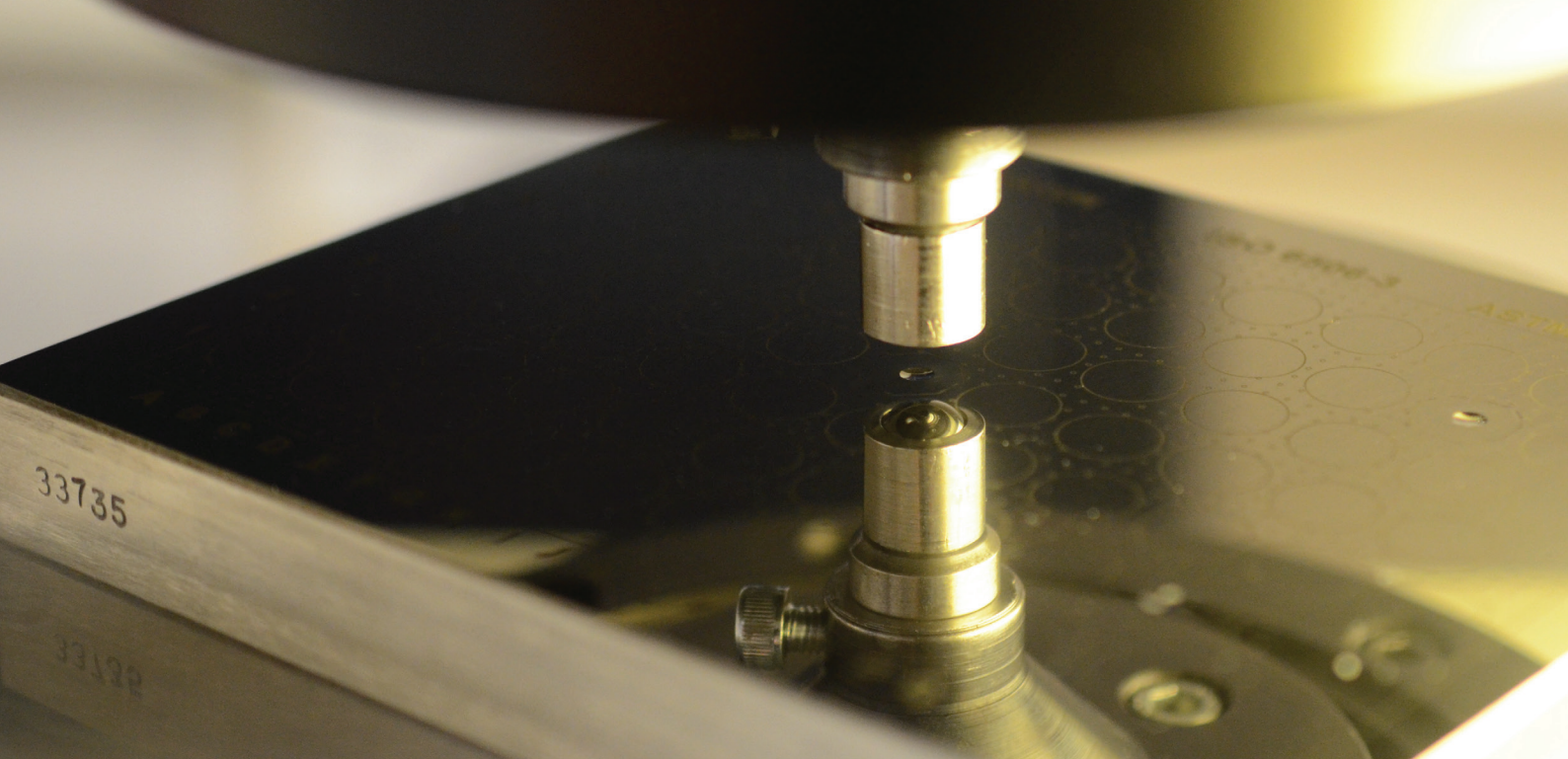


**RUGGED PRECISION**

Laboratory accuracy under  
steelworks conditions



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## Brinell Reference Blocks

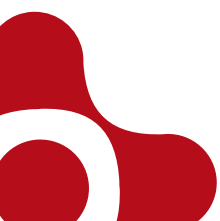
**Foundrax have the best accredited Calibration and Measurement Capabilities (CMCs) of any British Brinell calibration laboratory and our CMCs for the commercial manufacture of Brinell Reference Blocks are amongst the best in the world.**

This means that you and your customers have more confidence in your results when using equipment checked on our Brinell Reference Blocks, not only improving your own quality but giving you a further advantage over competitors who use inferior blocks.

Calibration of our reference blocks, Brinell hardness testers and microscopes are traceable to PTB (Physikalisch-Technische Bundesanstalt) in Germany and official UKAS certificates of calibration are supplied with each one.

Our Brinell Reference Blocks conform fully to ISO 6506-3:2014 and ASTM E10-15 and are complete with reference indentation as per ISO 6506-3 8.3.

All blocks feature mirror finishes for clear and easy indentation measurement.



## Available Hardness Ranges and Scales Shown Below

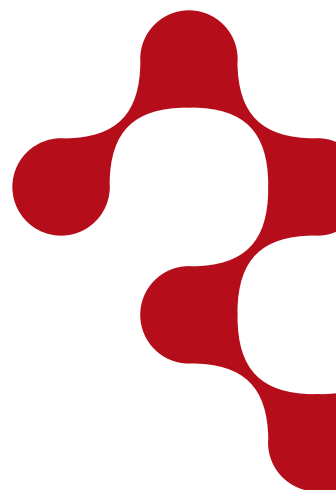
SCALE	F/D <sup>2</sup> INDEX	AVAILABLE HARDNESS RANGES
HBW10/3000 HBW5/750 HBW2.5/187.5	30	140-169 170-199 200-229 230-269 270-299 300-329 330-369 370-399 400-499 500-600
HBW10/1500	15	60-89A 90-190A 110-150A 140-169 170-199 200-229 230-269 270-299
HBW10/1000 HBW5/250	10	60-89A 90-109A 110-150A 140-169
HBW10/500	5	60-89A 90-100A

### Notes:

- All blocks certified to ISO 6506-3 and ASTM E10.
- All blocks supplied with official UKAS certificate of calibration unless requested otherwise.
- All blocks offer 173cm<sup>2</sup> surface area.
- All blocks in steel except where marked A (aluminium).
- Standard hardness ranges are marked in bold; ranges in grey are not available at present.
- Please advise hardness range & hardness scale required on your order.

### Advantages of Foundrax UKAS certified hardness reference blocks:

- Mirror finish for clear and easy indentation measurement.
- Standard grid, custom grid and “no grid” options.
- Your own grid at no extra charge.
- Very low uncertainty of measurement gives high confidence in results.
- Quick delivery.
- Competitive discount structure.



## Brinell Reference Indentation Reading Blocks

The challenge in Brinell hardness testing is not in making the indentation but in the measurement of the indentation, when using a manual microscope defining the edge depends on a subjective judgement of the operator and different operators may get different answers.

Foundrax Reference Indentation Reading Blocks feature 10 Standardised authentic indentations of differing sizes made and measured using our Master Calibration Machine (traceable to PTB) so are correct by definition. These are supplied in protective boxes with official UKAS certificates of calibration and represent the standard of measurement to which operators should aspire.

## Using Foundrax Brinell Reference Indentation Reading Blocks

By measuring each indentation it is possible to determine what systematic error each operator has, and if necessary to train them to measure correctly and to tighter limits than they have been used to. The mean diameters of the Reference Indentations are given on the Certificate and not on the block so it can then be seen whether their measurements are correct, consistent or inconsistent etc.

When disputes over Brinell hardness arise it is possible to find which party is making the truer measurements.

Foundrax Brinell Reference Indentation Reading Blocks may be also be used for the Indirect Verification of Brinell microscopes to ISO 6506 and ASTM E10.

### Our Standardised Brinell Indentations:

- Make the Brinell test more meaningful and accurate.
- Can be used to train operators to measure Brinell indentations correctly.
- Enable the monitoring of operators.
- Resolve arguments.
- Discover an operator's systematic reading errors.
- Can be used to indirectly verify Brinell microscopes.



These are steel blocks containing 5 reference indentations made with a 10mm ball in the range 2.40-6.00mm and 5 reference indentations made with a 5mm ball in the range 1.20-3.00mm. These measuring ranges cover all Brinell scales using 10mm and 5mm Brinell balls.

