

MODEL BHD  
BRINELL HARDNESS TESTER



MODEL BHD (Powered) – Heavy duty radial arm Brinell hardness tester

**World Leaders**

Brinell Hardness  
Testing Equipment



No 0231

# HEAVY DUTY RADIAL ARM HARDNESS TESTER - MODEL BHD PHOTOGRAPHS SHOW MANUAL MODEL

## THE BRINELL TESTING SYSTEM

The Model BHD Brinell hardness tester consists of a separate certified Brinell Test Head for applying the test forces of up to 29 420N (3000kgf), and a heavy duty frame in which it is mounted.

## VERSATILITY

This system is extremely versatile; various alternative Test Heads are available; it may be very quickly converted for use as a portable Brinell hardness tester which still carries out the same test.

## LARGE CAPACITY

The BHD has a maximum test height of 900mm and a maximum reach of 600mm. Other sizes can be specially made.

## HEAVY LOADING TABLE

The component to be tested rests on the stationary machine table, which does not have to be raised. This eliminates the risk of damage to the elevating screws on conventional machines and also eliminates the risk of a mis-test often caused by attempting to hold one end of a large workpiece by a crane or similar, whilst the other end is being tested. The table is capable of accepting a distributed load in excess of 10 tonnes.

## NO FOUNDATIONS REQUIRED

The machine may be set into the ground so that the top of the table is at floor level or it may be merely left in position on the factory floor. It can be moved about the factory if necessary since it does not require a permanent site. Siting the machine is not at all critical. It can be sited near to heavy vibration or forge hammers without detriment to the test. All it needs is a solid floor to stand on.



◀ Test Head is removed from the Model BHD in seconds..

..and is fitted to a portable base for testing work in the stockyard ▶



▲ Swing radial arm out of the way to lower heavy workpiece by crane



▲ Carry out the Brinell Test



## RADIAL ARM

This holds the Test Head of the machine and allows it to be manoeuvred to accurately position it for one or more tests without moving the workpiece. The radial arm can be moved out of the test area to allow the workpiece to be lowered onto the table by crane.

## REMOVABLE TEST HEAD

The Test Head is a self contained hand pumped hydraulic unit of well proven design which cannot be overloaded. It carries out tests in the HB10/3000 scale and is supplied with a UKAS Certificate of calibration. It can also be set to apply lower loads on a 10mm or 5mm ball if required. The Test Head is mounted in a very strong guided frame which moves it into and out of position vertically. The Test Head can be removed from the machine in a matter of seconds and, with the aid of readily available standard clamping devices can be used a full load portable Brinell hardness tester.

## RECOMMENDED ACCESSORIES

FOUNDRAx BRINELL REFERENCE BLOCKS to BS EN ISO 6506-3 - see separate leaflet

FOUNDRAx BRINELL MICROSCOPE: see separate leaflets

FOUNDRAx STAGE MICROMETER: see separate leaflet  
5MM BALL ADAPTER

## ACCESSORIES FOR PORTABLE USE OF TEST HEAD

134B BASE WITH 3 ANVILS: total weight with Test Head 13.5kg, allows clamping height of 343mm with 100mm throat

CHAIN ADAPTER: for use on very large components, clamps Test Head onto workpiece using chain, length of chain practically unlimited.

ADAPTER FOR REVERSE TESTING: for testing in very difficult places and in bores etc.

## ALTERNATIVE TEST HEADS

Low pressure Test Head, load range 62.5 – 1000kgf. Long ram high and low pressure Test Heads (these are used for testing in the bottom of grooves etc. or if used with the 134B portable base, over flanges or lips. They reduce the height capacity of the frame by 50mm)

All items may be purchased separately. Servicing is carried out by experienced Foundrax personnel.

Photographs courtesy John Folkes Heat Treatments, Kidderminster, England

**GENERAL DATA:** Floor space 720mm x 1300mm; extended height 2937mm; machine weight ca. 850kg; max. workpiece weight 20T; max. test height 900mm; max reach 600mm; movement of radial arm 180°+; movement of Test Head: vertical – 900mm; horizontal – 255mm.

**SHIPPING SPECIFICATION:** One box gross weight 1200kg, 4.94 CBM

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