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CASE DEPTH TESTING MADE EASY

CaseRock 4000 and CaseRock 1500

The **CaseRock 4000 and 1500** use a **Rockwell-style approach for case depth test results in 2 minutes**. The CaseRock tester performs continuous acquisition testing to determine the hardness of the metal throughout the case. **The CaseRock significantly reduces the time and cost of testing case depth.** Time savings are achieved by eliminating the cutting, mounting and polishing of samples. Cost savings are achieved by eliminating the labor in sample preparation, reducing test time and product rejects. The CaseRock is the only case depth tester that does not damage the integrity of the part being tested.

The CaseRock, manufactured by Ernst, makes one indent using a conical indenter, a penetrator shroud to reference the penetration depth and a transducer for measuring the penetrator displacement. The tester acquires hardness data by applying a constantly increasing load of up to 4,000 kgf. The continuous application of the load generates a load-penetration curve, not a single value. The data is displayed as specific hardness at multiple levels of force and a patented algorithm calculates the effective case depth. The absolute hardness values are converted into Vickers hardness numbers according to standard conversion tables.

All industries are increasing their emphasis on quality, tightening standards and process control. The CaseRock provides accurate, consistent results and allows for better testing while reducing costs and time involved in case depth measurement.

COST SAVINGS

- ◆ Eliminates the labor in sample preparation
- ◆ Reduces the test time labor
- ◆ Reduces rejected parts
- ◆ Non destructive testing

TIME SAVINGS

- ◆ Eliminates the cutting, mounting and polishing of samples
- ◆ Test results in 2 minutes
- ◆ Saves up to 90% of time compared to the traditional methods



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SPECIFICATIONS

Preload Continuous application and real time detection of load and indentation parameters

Load Application Method

Automatic continuous Rockwell-type with predetermined load value according to case depth

Loads

- **CaseRock 4000** 100 kgf to 4000 kgf
- **CaseRock 1500** 100 kgf to 1500 kgf

Output Vickers (HV scale)

Reading Direct reading of case depth on touchscreen display 8.4" - schematic curve with determined case depth value - statistics and curve comparison

Test Results Storage Stored on machine with optional communication output

Communication Interface

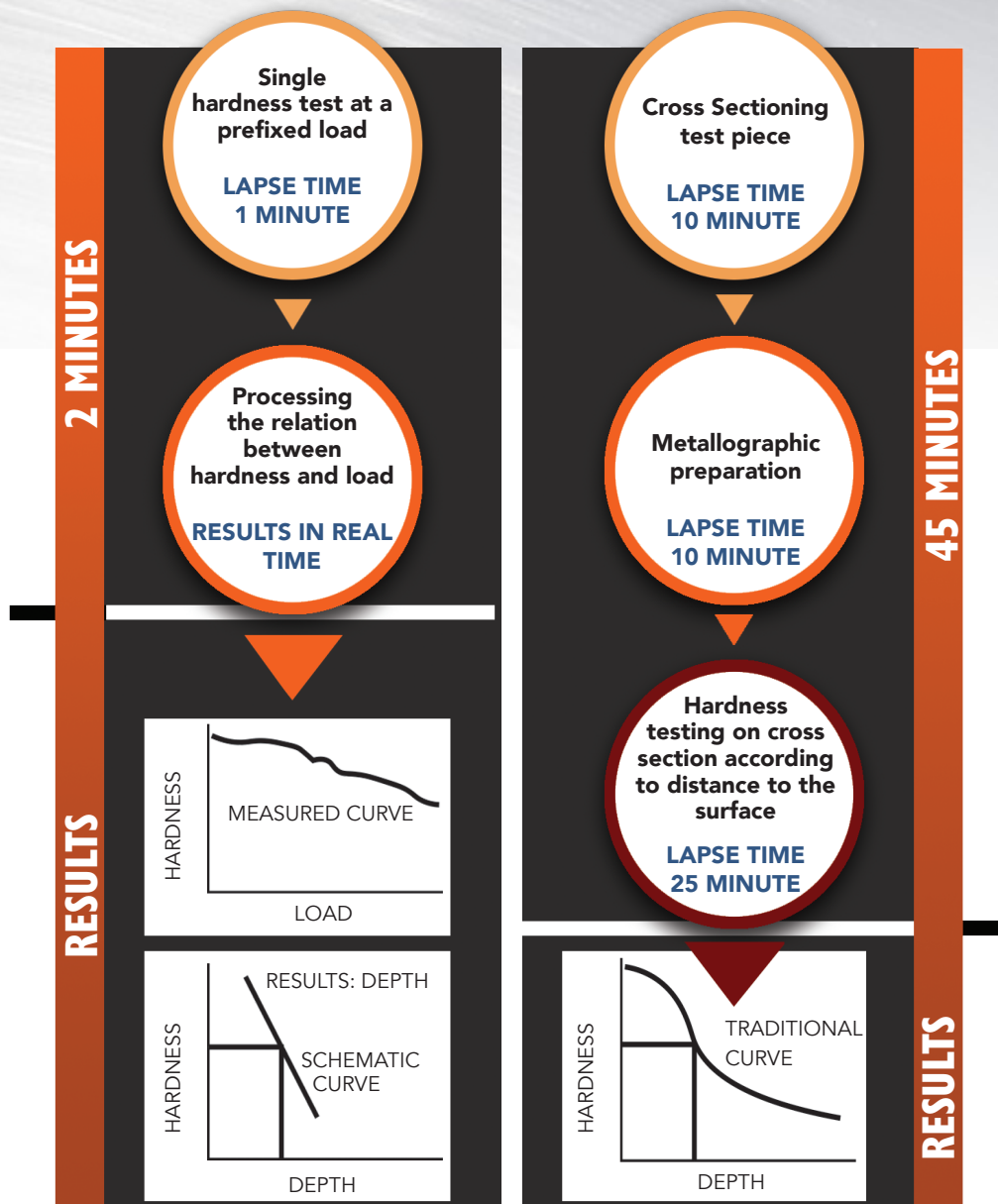
USB, Serial, Centronics, Ethernet, PS/2

Power Supply 110-240 Vac
50/60 Hz

Dimensions 36" x 47" x 33"

Weight 992 lbs.

The CaseRock 4000 and 1500 delivers test results in 2 minutes, from start to finish, with no sample preparation, a 90% time savings and a significant cost savings in labor!



KING Tester Corporation is the industry leader in the manufacturing and distribution of portable Brinell hardness testers and most recently Rockwell testers manufactured by Ernst.

For over 60 years, Ernst has researched, designed and provided innovative solutions for Rockwell Hardness Testing. All Ernst testers are CE marked, and certified according to the international standards EN, ISO, DIN and ASTM.

Ernst products are made in Europe.

**For more information about our case depth testers,
CONTACT US TODAY AT 610.279.6010**

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