

# Material Testing Devices

## Pocket Hardness Tester "Sclerograph"

for hardness tests of steel in an area of hardness of 200 - 850 HV<sub>R</sub>



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HOCHPRÄZISIONS



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# Material Testing Devices

## Pocket Hardness Tester "Sclerograph"

### Construction and Function

The Sclerograph is perpendicularly put on the brunished measuring surface of the specimen and the drop hammer is pulled up on the head until the locking device engages. In this way a invariable height of fall is always ensured. The drop hammer falls down to the surface of the test specimen and rebounds in conformity with its hardness. At the highest point of rebound the hammer retained by a special device. Thus the reading of the rebound is made easier substantially. By making several measurements on one specimen and then forming the mean the deviation of the device is kept to a minimum. You have got to be aware that the device is shifted a bit at each measurement in order to avoid mistakes because of hardening effects in the material. The means are converted into Vickers Hardness  $HV_R$  with the help of enclosed reference curve.

### Applicability

This instruments serves for quick hardness tests of steel, independently of place. It works in an area of hardness of 200 - 850  $HV_R$ . It is distinguished by its robust and small-sized design so that it is very suitable as a pocket device.

### Technical Data

|                  |  |
|------------------|--|
| Measuring range: | 200 - 850 $HV_R$   |
| Limit of error:  | +/- 5 % of the respective measuring value ( $HV_R$ )   |
| Application:     | hardness measurement of steel and other metals<br>device of steel calibrated<br>with a module of $2.1 \times 10 \text{ kp/cm}^2$ |
| Dimension:       | length x diameter 175 x 22 mm  |
| Weight:          | netto 0.18 kg<br>gross 0.30 kg   |

