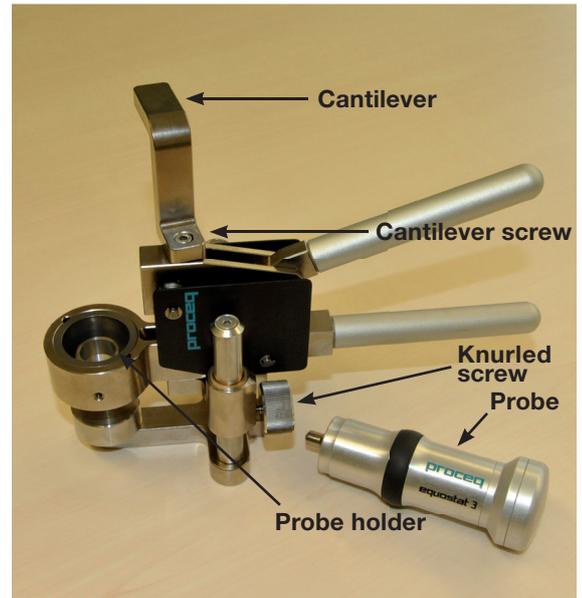


Equostat 3 Measuring Clamp

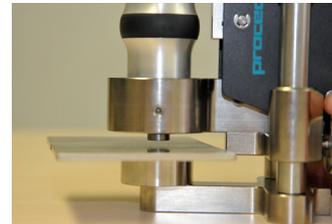
The Equostat 3 measuring clamp is designed to facilitate the hardness testing of very thin or small samples. Optimum measuring performance of this clamp is guaranteed when applied to steel samples.

Preparing the Measuring Clamp

1. Take the probe and remove the foot, make sure that the cantilever screw on the measuring clamp is loose enough to turn it to the side.
2. Screw the probe into the probe holder of the clamp clockwise (hand-tight).
3. Turn the cantilever so its tip is centered over the probe; tighten the cantilever screw securely using the 3mm Allen key setup tool.



4. The recommended clearance between the bottom of the probe holder and the sample surface should be between 2 and 5mm. Adjust the height with the 2 knurled screws.



General Considerations

- Due to the mechanics / physics of the ASTM B724 measuring mode, which specifies testing on aluminum samples, when using the hand clamp, slight but unavoidable elastic deformation of the clamp can noticeably affect the reading. It is therefore not advisable to use the Equostat 3 clamp, when using ASTM B724 measuring mode. Hardness conversions according to ASTM E140, when using the measuring clamp in the standard DIN 50157 measuring mode are unaffected.
- When measuring cylindrical samples with adapters Z4 or Z4+28, make sure, the sample is not twisted on the clamp support (neither in plane with the clamp support, nor rotational round it). This is best ensured when the back part of the clamp rests on a table and only the sample support of the clamp sticks out over the table's edge.
- When applying the load, slowly squeeze the levers and allow the sample to adjust to the support. During the measurement, do not touch the sample, if possible. When releasing, grab the sample again.
- Whenever the sample geometry (i.e. the wall thickness) allows it, freehand measurements usually offer better measuring performance. This applies particularly to measurements on cylinders.
- For small diameter rods (or stiff enough pipes), the V-notch clamp adapter Z2 has been designed. When installing the Z2 support ensure that the center of the V-notch is centered underneath the probe holder.

