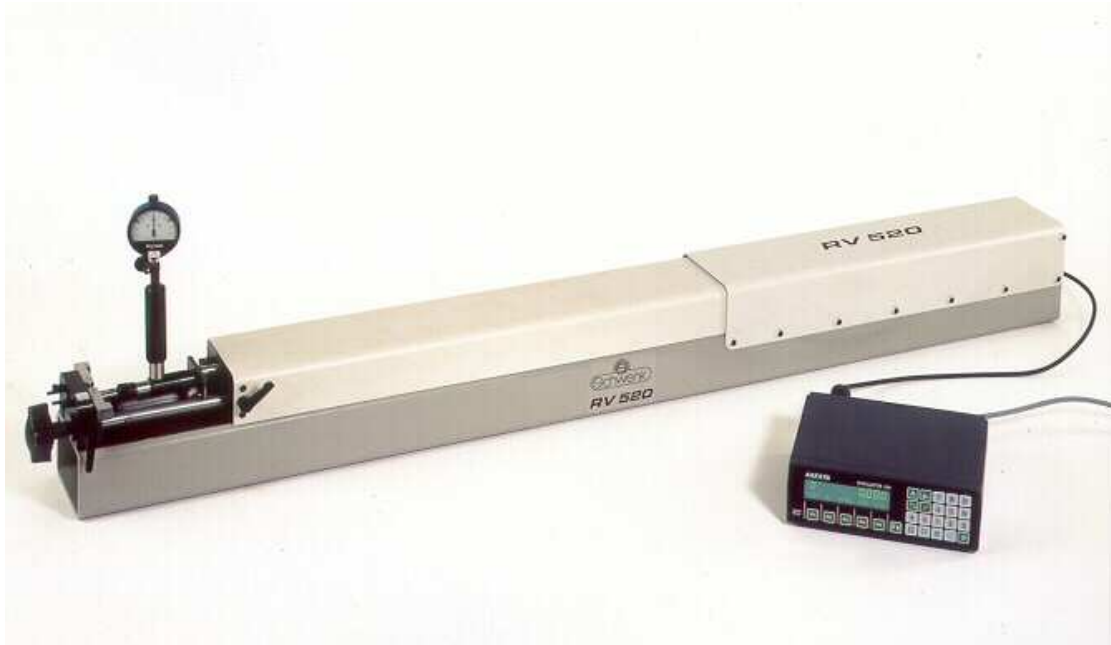


## Reference Unit RV



Comparison measuring instruments can only be as precise as the reference standard necessary for calibration purposes.

We have therefore developed a reference equipment, which is especially useful for the calibration and setting of measuring instruments:

- checking of internal two-point-contact measuring instruments
- direct setting, for instance at the middle of the tolerance of a bore
- setting of large lengths and any intermediate dimensions you like
- high flexibility when setting new dimensions

The structure of the reference equipment is based on the principle of ABBE - the measuring axis and the incremental scale serving as reference are on one line.

The accuracy of the system depends therefore mainly on the length measuring system which is used. Angle errors have a very small influence on the measurement.

For this reason it is possible to avoid a long and expensive frame construction, which is necessary with other systems.

This implies considerable advantages for users, especially when measuring bores with a diameter over 100 mm.

The costs for setting rings and gauge blocks increase exponentially; moreover, additional maintenance and control costs arise continually. Even the purchasing of a new equipment has to be considered, if the dimensional accuracy is not ensured any more.

The reference unit RV enables to maintain within reasonable limits the time and expenses that are necessary for the control. Moreover, it is possible to adjust the system later, through the introduction of correcting values in the indicating unit.

| Model              | RV 270 | RV 520 | RV 1020 |
|--------------------|--------|--------|---------|
| Setting range [mm] | 270    | 520    | 1020    |
| Accuracy:          |        |        |         |
| 0 - 100 mm         | 1 µm   | 1 µm   | 1 µm    |
| 100 - 270 mm       | 2 µm   |        |         |
| 100 - 520 mm       |        | 3 µm   | 3 µm    |
| 520 - 1020 mm      |        |        | 5 µm    |