



Important information for replacing a reticule plate in an Electronic Scale ES or when converting an ESM version to ES

The installation of a reticule plate or the mounting of a preassembled magnifier plate (e.g. when converting an ESM type to ES type) looks like an easy procedure. And yet, this job is not entirely unproblematic. The following points must be observed:

1) Position of the reticule plate

The distance of the reticule plate to the material to be measured has a direct impact on the accuracy and uncertainty of the measurement, and is therefore very important. Because through the parallax, all these values are linked to each other in an inseparable, linear interdependency. The larger the distance, the greater the uncertainty of measurement and the measurement errors. For this reason, the reticule plate should be as close as possible to the measured goods.

If, however, the distance is too small and/or if the reticule plate is not parallel to the support pad, the movement of the measuring carriage may cause the reticule plate to damage the material (or vice versa).

Factory settings:

Reticule plate parallel to the plane table; distance = 0.1 mm

2) Mechanical tolerances

If the installation/conversion is not done by the manufacturer, the interplay of the many manufacturing-related, mechanical tolerances of the individual components and assembly makes it impossible to guarantee that the desired distance and concurrency can be achieved! In the interest of optimal positioning of the reticule plate, it is advisable to have this work carried out by the manufacturer.

3) Warranty and factory inspection protocol

The manufacturer expressly declines any liability for damage caused by improper handling/installation. At the same time, we wish to point out that manipulations of any kind by unauthorised people will lead to the immediate termination of the guarantee.

Please note that the supplied factory inspection protocol will become ineffective after replacing the reticule plate.