

OPERATION ACCURACY MEASURING METHOD

ABSTRACT

An operation accuracy measuring method for measuring the operation accuracy of a linear motion mechanism includes the steps of placing on a support table a measuring jig having a flat lower surface, a parallel surface opposite and parallel to the lower surface, and a slanted surface joined to the parallel surface through a straight boundary line, adjusting the positions of the measuring jig to allow the white light interferometer to observe the parallel surface and the slanted surface simultaneously, capturing images of the parallel surface and the slanted surface with the white light interferometer and observing changes in interference fringes appearing in image sections of the captured images that represent the parallel surface and the slanted surface while the support table is being linearly moved, and the step of deducing the operation accuracy of the linear motion mechanism on the basis of the observed changes in the interference fringes.

[Fig. 3]