

**Measurements of form deviations of 3D elements with the use of adaptive strategy
based on helical trace**

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Measurements of form deviations of 3D elements can be conducted with various strategies. Such strategies differ in a number and distribution of sampling points located on an investigated surface. Low number of sampling points can bring about the situation that some surface irregularities cannot be detected by a measuring system. An application of higher density of sampling points, in turn, results in significant lengthening of measurement time, which is undesirable. This is why authors propose to develop a novel, adaptive measurement strategy. The paper presents the concept of adaptive strategy applying preliminary scanning along the helical trace.