



Motivation

Manual calibration of the milling head is a time consuming process without knowledge of the relevant functions or procedures.

Description

This function automatically measures the rotational axes of the head using a touch probe cycle. To measure the rotary axes, a calibration ball is fixed at any point on the machine table and scanned with the touch probe. Based on the measured values, the system detects the spatial errors resulting from the tilting of the axes. Cycle calculates an optimized kinematic description of the head in which these errors are minimal and stores it in memory as the machine kinematics. A measurement log file is of course also available. In addition to the measured values, this file also contains the optimized variance (a measure for static rotation accuracy) as well as the actual correction data. In order to use the function optimally, you need a particularly rigid calibration ball. This eliminates deformations caused by the force when the probe tip touches the probe.

Benefits

- Time saving - simple and quick head kinematics adjustment
- Increased accuracy of head positioning (high precision adjustment)
- Unlimited repeatability of use