



Customer  
Services

Preventive services

# Calibration by laser interferometer

To guarantee maximal  
accuracy of axes



# Calibration by laser interferometer

Calibration by laser interferometer is the best guarantee that the machine performs with absolute accuracy.



- + Guarantees that machining runs with absolute accuracy
- + Yields greatest respect for tolerances in parts production
- + Conducted according to VDI 3441/ISO 230-2 specifications

With this preventive service, the technician checks the precision and the repeatability of the linear positioning of the axes of your GF Machining Solutions Milling, EDM and Laser machines. The detected deviations will be corrected by modifying the axis correction tables according to VDI 3441/ISO 230-2. In critical case it could be recommended to perform a mechanical intervention.

We recommend you to use this preventive service at regular time or in case of environment change and as certification support to ensure extreme precision.

## This preventive service includes several crucial steps by our expert technicians:

- Establishing the conditions for perfect measurement (temperature constancy, checking of the machine geometry, etc.)
- Measuring with the laser system, including retroreflector and frequency meter, for each axis the main parameters:
  - Positional accuracy
  - Positional deviation
  - Positional repeatability
  - Reversal value
- Outlining actions necessary to adjust out-of-tolerance ISO/VDI parameters
- Releasing an ISO certificate of conformity for equipment