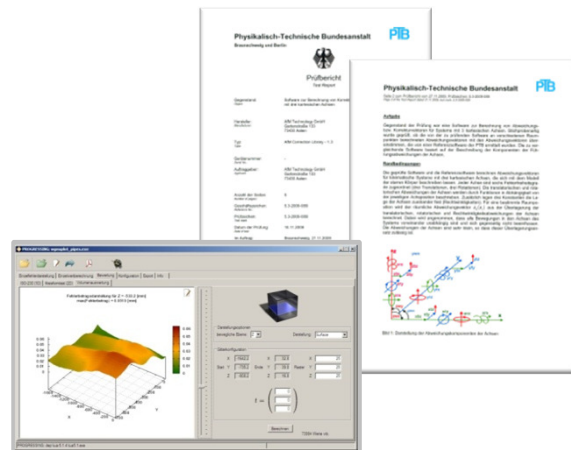
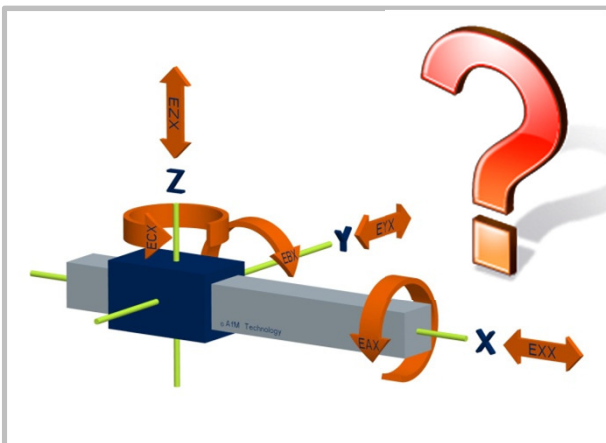


Engineering package – „MaCo Online“

Don't be satisfied with less!



Customers

The customers for the AfM engineering package are CNC control producers, and machine tool builders with their own CNC control solutions for their individual machine tools.

State-of-the-art

CNC units are nowadays capable of compensating for:

- Encoder Errors (1 dimensional; position)
- Cross Errors (2 dimensional; straightness)
- Space Errors (3 dimensional, without tool vector)

Innovation

Through the consultation from AfM Technology, the CNC control unit will be able to compensate the volumetric error of the machine tool or measuring instrument online .

- MaCo Online / Volumetric Compensation Method (3 dimensional, including tool vector; 21 errors)

Possible ways of cooperation for the MaCo Online solution:

CNC Manufacturers development

- AfM offers engineering or measuring service
- The technology is owned by the controller manufacturer and supported by AfM

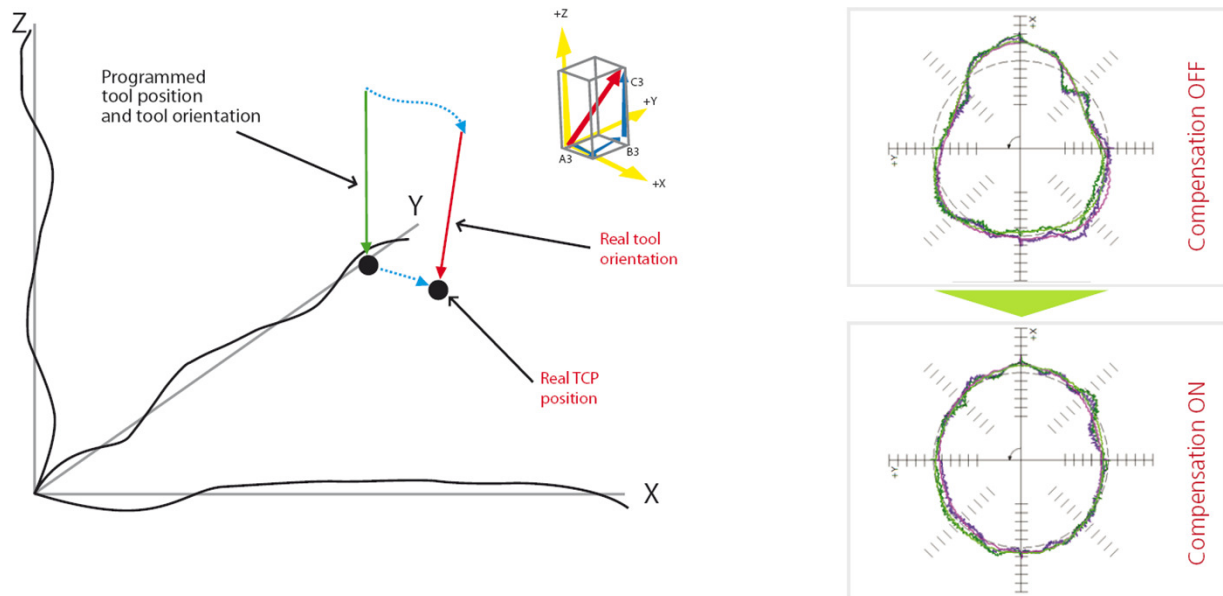
Common development

- AfM offers engineering and measuring service
- The technology has shared ownership

AfM Technology development

- AfM develops the complete solution for the control
- The technology is owned by AfM Technology and licensed to the CNC manufacturer

Volumetric Compensation of machine tools



The AfM engineering package consists of:

- Mathematics for implementation of volumetric error compensation (PDF File)
- Source code (ANSI-C) or library file with functions for error compensation (Compensation algorithm certified by the PTB)
- Test data for the verification of the software
- Utilization of the AfM test machine (connection of the CNC control by manufacturer)
- Engineers on-site for real time tests at machine tools
- Field validation of volumetric error compensation
- Programmer on-site for consultation or implementation
- Machine tool calibration service, LaserTracer hire, LaserTracer sales
- Demo parts for the mechanical verification
- DKD calibration service for the demo parts
- Support during the marketing strategy development (sales staff training, product data sheets, presentation, etc.) for the market launch of the Volumetric Compensation method

Our Services

- Engineering packages for the volumetric compensation of machine tools
- Fast, cost-effective, volumetric machine tool analysis
- Documentation of actual conditions
- Creation of Compensation files
- Verification of the compensated machine tool
- Standard machine calibrations
- Mechanical service and adjustments
- Training for LaserTRACER systems
- Sale of LaserTRACER systems and accessories

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