



TF5280 | TC3 CNC Volumetric Compensation

TC3 CNC Volumetric Compensation is an optional package for compensating geometric machine errors based on an ISO-standardised parametric model.

Application

- highly effective option for increasing the machine accuracy and therefore the manufacturing accuracy, simply through control
- measures
- correction of the TCP position through dynamic calculation of axis correction values
- suitable for machines with 3 Cartesian and up to 3 rotary axes
- any kinematic axis order (head/table kinematics)

Features

- several parameter files per compensation, several compensations per controller
- parameter update via NC command or HMI
- interpolation of parameter sets (sag compensation, etc.)
- smoothing of parameter step changes during modulo transitions
- diagnostics possible via ADS, Microsoft Excel file

Safety

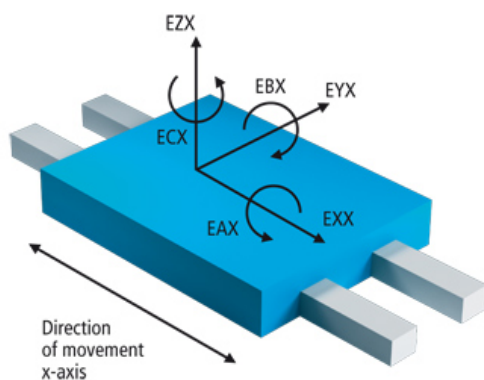
- configurable limitation of the compensating values
- configurable limitation of the travel-out velocity of the compensating values

Supported file formats

- tabular CSV format
- Etalon exchange format

Standards

- DIN ISO 230 "Test code for machine tools"
- ISO/TR 16907 "Machine tools – Numerical compensation of geometric errors"



Technical data	TF5280
Required	TC1270
Target system	Windows 7/8/10

Ordering information	
TF5280-0v50	TC3 CNC Volumetric Compensation, platform 50 (Performance Plus)
TF5280-0v60	TC3 CNC Volumetric Compensation, platform 60 (Mid Performance)
TF5280-0v70	TC3 CNC Volumetric Compensation, platform 70 (High Performance)
TF5280-0v80	TC3 CNC Volumetric Compensation, platform 80 (Very High Performance)
TF5280-0v81	TC3 CNC Volumetric Compensation, platform 81 (Many-core 5...8 Cores)
TF5280-0v82	TC3 CNC Volumetric Compensation, platform 82 (Many-core 9...16 Cores)
TF5280-0v83	TC3 CNC Volumetric Compensation, platform 83 (Many-core 17...32 Cores)
TF5280-0v84	TC3 CNC Volumetric Compensation, platform 84 (Many-core 33...64 Cores)
TF5280-0v90	TC3 CNC Volumetric Compensation, platform 90 (Other)
TF5280-0v91	TC3 CNC Volumetric Compensation, platform 91 (Other 5...8 Cores)
TF5280-0v92	TC3 CNC Volumetric Compensation, platform 92 (Other 9...16 Cores)
TF5280-0v93	TC3 CNC Volumetric Compensation, platform 93 (Other 17...32 Cores)
TF5280-0v94	TC3 CNC Volumetric Compensation, platform 94 (Other 33...64 Cores)