



## TF5100 | TC3 NC I

Using TwinCAT NC I, movements can be implemented with up to three interpolating and up to five auxiliary axes in the interpolation package. Various axis types with various fieldbus interfaces are supported. The movement is usually programmed in DIN 66025, but it can also alternatively be carried out via PLC function blocks.

- max. 3 path axes and up to 5 auxiliary axes per group
- 1 group per channel, max. 31 channels
- supports electric servo axes, stepper motor drives
- interpreter functions such as subroutine and jump technology, programmable loops, zero point shifts, tool corrections, M and H functions
- geometry functions: straight lines and circles in 3-D space, circles at all main levels, helices with base circles at all main levels, linear, circular and helical interpolation at the main levels and freely definable levels, Bezier splines, look-ahead function
- online reconfiguration of axes in groups, path override, slave coupling to path axes, auxiliary axes, axis error and sag compensation, measuring functions
- programming in DIN 66025
- access alternatively via function blocks according to IEC 61131-3
- operation of automatic mode, manual mode (jog/inch), single block mode, referencing, handwheel mode (movement/overlay)
- convenient debugging with online monitoring of current setpoint/actual position (position lag of all axes), NC program line currently being processed, NC program line currently being interpreted, channel status
- support of kinematic transformations in combination with TF511x

<b>Technical data</b>	TF5100
<b>Required</b>	TC1250
<b>Target system</b>	Windows XP, Windows 7/8/10, Windows CE

Ordering information	
TF5100-0040	TC3 NC I, platform 40 (Performance)
TF5100-0050	TC3 NC I, platform 50 (Performance Plus)
TF5100-0060	TC3 NC I, platform 60 (Mid Performance)
TF5100-0070	TC3 NC I, platform 70 (High Performance)
TF5100-0080	TC3 NC I, platform 80 (Very High Performance)
TF5100-0081	TC3 NC I, platform 81 (Many-core 5...8 cores)
TF5100-0082	TC3 NC I, platform 82 (Many-core 9...16 cores)
TF5100-0083	TC3 NC I, platform 83 (Many-core 17...32 cores)
TF5100-0084	TC3 NC I, platform 84 (Many-core 33...64 cores)
TF5100-0090	TC3 NC I, platform 90 (Other)
TF5100-0091	TC3 NC I, platform 91 (Other 5...8 cores)
TF5100-0092	TC3 NC I, platform 92 (Other 9...16 cores)
TF5100-0093	TC3 NC I, platform 93 (Other 17...32 cores)
TF5100-0094	TC3 NC I, platform 94 (Other 33...64 cores)