

TwinCAT 3 Motion



TF5210 | TC3 CNC E

TwinCAT CNC in the export version (E-version) offers the option to implement an interpolation with up to four simultaneously interpolating axes. The number of axes and/or the number of channels can be adapted to the requirements of the application via the option packages. Various transformations can be supplemented via option packages. Programming takes place according to DIN 66025. The axes and channels are configured in TwinCAT Engineering.

- maximum 8 path axes/controlled spindles, max. 64 axes/controlled spindles (optional), max. 12 channels
- maximum 4 interpolating path axes
- supports electric servo axes, stepper motor drives
- subroutine and jump technology, programmable loops, zero point shifts, tool corrections, M and H functions, mathematical functions, programming of parameters/variables, user macros, spindle and auxiliary functions, tool functions
- geometry functions linear, circular and helical interpolation at the main levels and freely definable levels, max. 64 path axes per channel, look-ahead function
- axis functions, coupling and gantry axis function, override, axis error and sag compensation, measuring functions
- programming in DIN 66025 with high-level language extension
- access via function blocks from TwinCAT PLC according to IEC 61131-3
- operation with automatic mode, manual mode (jog/inch), single block mode, referencing, block advance, handwheel mode (movement/overlay)
- convenient debugging with online monitoring of all states

Technical data	TF5210
Required	TC1260
Target system	Windows XP, Windows 7/8/10

Ordering information	
TF5210-0050	TC3 CNC E, platform 50 (Performance Plus)
TF5210-0060	TC3 CNC E, platform 60 (Mid Performance)
TF5210-0070	TC3 CNC E, platform 70 (High Performance)
TF5210-0080	TC3 CNC E, platform 80 (Very High Performance)
TF5210-0081	TC3 CNC E, platform 81 (Many-core 5...8 cores)
TF5210-0082	TC3 CNC E, platform 82 (Many-core 9...16 cores)
TF5210-0083	TC3 CNC E, platform 83 (Many-core 17...32 cores)
TF5210-0084	TC3 CNC E, platform 84 (Many-core 33...64 cores)
TF5210-0090	TC3 CNC E, platform 90 (Other)
TF5210-0091	TC3 CNC E, platform 91 (Other 5...8 cores)
TF5210-0092	TC3 CNC E, platform 92 (Other 9...16 cores)
TF5210-0093	TC3 CNC E, platform 93 (Other 17...32 cores)
TF5210-0094	TC3 CNC E, platform 94 (Other 33...64 cores)