

TwinCAT 3 Motion



TF5420 | TC3 Motion Pick-and-Place

TC3 Motion Pick-and-Place is an extension of TC3 NC I (TF5100) and was especially designed for the kinematics of handling tasks carried out by gantry robots and pickers. It smooths the transition of complex path segments. Special methods are used to blend movement commands, facilitating optimised cycle times when they are processed. This reduces the bumpiness of motion along the path, making it run more smoothly, which is vital for high cycle times, gentle treatment of the robot and careful handling of the products.

The TF5420 is programmed using a PLC library. There is no limit on the number of axes in a pick-and-place group, the only limiting factor is the processing power of the controller. Given an appropriate level of processing power, interpolating movement commands can be processed even for complex machines with more than three or eight axes (three path plus five auxiliary axes).



Technical data	TF5420
Required	TC1260
Target system	Windows XP, Windows 7/8/10

Ordering information	
TF5420-0040	TC3 Motion Pick-and-Place, platform 40 (Performance)
TF5420-0050	TC3 Motion Pick-and-Place, platform 50 (Performance Plus)
TF5420-0060	TC3 Motion Pick-and-Place, platform 60 (Mid Performance)
TF5420-0070	TC3 Motion Pick-and-Place, platform 70 (High Performance)
TF5420-0080	TC3 Motion Pick-and-Place, platform 80 (Very High Performance)
TF5420-0081	TC3 Motion Pick-and-Place, platform 81 (Many-core 5...8 cores)
TF5420-0082	TC3 Motion Pick-and-Place, platform 82 (Many-core 9...16 cores)
TF5420-0083	TC3 Motion Pick-and-Place, platform 83 (Many-core 17...32 cores)
TF5420-0084	TC3 Motion Pick-and-Place, platform 84 (Many-core 33...64 cores)
TF5420-0090	TC3 Motion Pick-and-Place, platform 90 (Other)
TF5420-0091	TC3 Motion Pick-and-Place, platform 91 (Other 5...8 cores)
TF5420-0092	TC3 Motion Pick-and-Place, platform 92 (Other 9...16 cores)
TF5420-0093	TC3 Motion Pick-and-Place, platform 93 (Other 17...32 cores)
TF5420-0094	TC3 Motion Pick-and-Place, platform 94 (Other 33...64 cores)