

CNC Simulation Milling

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Author Note: We are very glad to have the opportunity to participate in this program, most of us are studying Mechatronic Engineering and Mechanical Engineering since 2012. During our time there, we have been able to acquire solid knowledge in this field.

Abstract: Computer Numerical Control (CNC) is a specialized and versatile form of Soft Automation and its application cover many kinds, although it was initially developed to control the motion and operation of machine tools. Computer Numerical Control may be considered to be a means of operating a machine through the use of discrete numerical values fed into the machine, where the required 'input' technical information is stored on a kind of input media such as floppy disk, CD ROM, DVD, USB flash drive, or RAM card etc. the machine follows a predetermined sequence of machining operations at the predetermined speeds necessary to produce a workspace of the right shape and size and thus according to completely predictable results. A different product can be produced through reprogramming and a low-quantity production run of different products is justified.

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