ABSTRACT

Nowadays the expansion of industries cannot neglect production that connected with manufacturing processes. The manufacturing process which it is done manually will allow chance some mistakes and will take more time to do. That's why production process with CNC machine is needed.

Operational cost that needs by CNC machine is high, so the operational have to be done carefully. Because if there any mistake on programing, will be fatal error for the machine. On that case, it is need to propagate simulation program that can be use for test case to avoid mistakes on programing.

This simulation software made for illustrate the tool movement on the CNC Milling machine. This software need to help programmer to check if the G-code program is suitable with the real shape of work piece. It will help programmer to operate the machine and avoid the mistakes. This software equipped with 2D simulation and 3D animation that can show actual condition on CNC milling machine.

Key word: production proces, Milling CNC, simulation program