The Study of Virtual Machining and The Configuration of a Specified Post-Processor

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ABSTRACT

The purpose of this study is to establish a standard post-processor for a specified multi-spindle machine tool, and build a virtual machine for machining simulation. This post-processor can generate standard NC codes by CL path information. A multi-spindle machine tool NC-2432/LV was used to verify this post-processor embedded in a specified CAM system. Computer-aided simulation machining can help users to identify possible NC code error in machining process, spindle interference and collision, and whether machined part meets design requirement or not? Post-processor can convert tool paths generated by a CAM system into NC codes that CNC machine tool can accept. It is a important interface between design and manufacturing; as a of multi-spindle machine tool is operated much more complicated than ordinary standard single-spindle one, its post-processor design is more complex, too. This study aimed to create a post-processor and generate NC code for a specified multi-spindle machine tool, and establish machining model the same as actual machine by virtual machining software for simulation validation. The results proved that the post-processor established in this study can be applied in actual machining.

Keywords : Post-Processor ; Virtual Machining ; CAM

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