

## SOME ASPECTS CONCERNING THE PHYSICAL MODELS OBTAINED USING HIGH SPEED MACHINING

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**Abstract:** Continued innovation can sustain the momentum of manufacturing progress and manufacturing companies have the capabilities and business acumen to adopt new strategies, systems, and processes.

Speed and accessibility of information, global reach, and closeness have dramatically altered our way of life.

The growing demands of customers are rewriting the current way of thinking. In some cases, a reduction of energy usage, substitutions for traditional material different design applying new machining technology, and promoting use of recyclable and biodegradable materials can have an enormous impact on securing a protected, healthy environment.

High-speed machining, also called high-velocity machining, is often specified for new investments in manufacturing, especially when machining nonferrous metals.

This makes sense, given the progress in machine spindle technology and the velocity at which the machine axes can travel. In conjunction with advanced cutting materials, particularly polycrystalline diamonds, high speed machining substantially reduces machining and non-production time.

**Key words:** physical model, high speed machining, CNC