Experimental study of temperature field in the cutting hearth when milling alloy VT-6

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Up to now processing of materials by cutting is the basic method for manufacturing engineering products. Cutting efficiency of the cutting process increases as a result of research in various areas of material processing. The article describes an experiment of studying temperature field in the cutting hearth when milling alloy VT-6. Based on these data the dependence of maximum heating temperature of the alloy in the hearth of cut for each pass of the milling cutter has been plotted. It was established that the maximum heating temperature in the hearth increases with increase of the number of passes of the cutter over the surface of the workpiece.

Keywords: *processing of materials, cutting, temperature field, hearth of cutting.*

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