

# REFABRICATION OF MACHINE TOOLS PROBLEMS SPECIFIC TO THE INCREASE OF THE CUTTING SPEEDS

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**Abstract:** *The present paper presents some theoretical and experimental research regarding the cooling systems for machine tools. Considering the fact that the temperature calculus depends on a lot of factors, it is necessary that we must check and correlate the theoretical results to the experimental measures.*

*This work presents the theoretical and experimental research performed when refabricating a Vertical Lathe SC 14 CNC type, for which the maximum speed of the table has been increased by more than 100%.*

*The machine has been intended to rough and finish machining of aluminum made workpieces.*

**Key words:** *Machine-Tools, Refabrication, Cooling*



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