

V. A. Ostafiev , A. N. Noshchenko. Thermostrength of Carbide Tools. – Annals of the CIRP Vol. 38/1/1989.

The tool volume thermal-stressed state has been investigated. Due attention is paid to estimating the role of thermal and mechanical loads and adequately selecting the criteria of sizing-up the tool's strength. The data obtained as a result of the performed investigations are used so as to explain the experimentally established characteristics of the tool's wear and fracturing in the process of continuous and interrupted machining.

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