

METHOD FOR THE CONTROL OF THE GEOMETRIC AND CONSTRUCTIVE ELEMENTS OF THE CUTTING TOOLS

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Abstract: In the paper are presented the bases of a methodology for the determination of all the geometric and constructive elements of the cutting tools for the lathe, starting from the getting of a solid model 3D of the measured tool. There are shown the possibilities to obtain a 3D model and the mathematical model of the geometric parameters control. These possibilities refer at a new way to obtain a solid model 3D using the software 3D Sculptor (by photography of the studied tool) and at the scanning of the cutting tool. The proposed method is available for research activities and for technological activities, improving the quality of the control of the cutting tools.

Key words: Control, Cutting Tools, 3D Model, Geometry.