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Influence of Processing Parameters on the Quality of the Superficial Layer after Processing Surfaces by Plastic Deformation

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Abstract

On the properties of exploitation of the parts, a major influence has the quality parameters of working surface. Under the term "quality superficial layer" it is understood the integrity of such indices as: geometric precision, undulation, form precision, work surface microgeometry, physical and mechanical properties of the superficial layer. In most cases, the influence of these indicators on the exploitation characteristics of the surfaces are examined separately, but of their reciprocal interaction is evident. Roughness and precision machining of the surfaces have a significant influence on the characteristics of the machine. In most cases, the roughness and precision machining is indicated depending on the operating conditions of the surface. Varying with processing parameters, we can manage forming the surface roughness and surfaces precision. In this paper will present how influencing processing parameters on surface roughness and precision surface.