عنوان مقاله:

Laboratory and simulation study of the effect of the parameters of the milling machine on the smoothness of the surface of alloy steel

محل انتشار:

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خلاصه مقاله:

With regard to the scope of application of VCN150 steel and the lack of a coherent research and laboratory work in relation to this type of alloy steel got a brief introduction to the way this type of alloy steel and its scope of operation to review the mentioned laboratory and simulation of it. Examples in the laboratory procedure in accordance with test method according to the number of nine pieces of Taguchi outlines prepared and with 3 Vf parameter (speed of progress), Vc (rotational speed), ap (the depth of the chip) to check the process of the various conditions of milling machine. Finally, the surface roughness test for portable devices by manufacturing parts model sutronic construction company taylor hobson and according to the output that the device was showcased, more progress in the speed and depth of the shear surface roughness has been more and more but in the method of simulation of the Abaqus software to review and analyze various conditions and laboratory results and spent milling machine simulations we compared the percentage error of the two methods . A three-dimensional finite element model for simulating a real process of milling machine was provided. The most important factors influencing the process of pellet woman numeric .form and examine the laboratory assembled

کلمات کلیدی:

Milling parameters, Roughness, Steel VCN150, Taguchi testing method, simulation