

Statistical Approach for Predictions of Motorcycle Engine Block Surface Roughness Property After CNC Machining (Book Chapter)

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Abstract:

The engine block is one of the important components in a motorcycle. It plays an important role in ensuring that the motorcycle works properly. The surface roughness of the engine cylinder affects the engine efficiency. Therefore, researchers underwent experiments to find out the goodness of the surface for the engine block. Through the surface roughness test machine and cutting using a CNC milling machine, it shows that the cutting speed and speed rate affect the surface roughness results. Response surface methodology (RSM) and Minitab methods are used to obtain statistical analysis data in completing this project. © 2022, The Author(s), under exclusive license to Springer Nature Switzerland AG.

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