

Review of: "Machinability of Ti6Al4V Alloy: Tackling Challenges in Milling Operations"

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Potential competing interests: No potential competing interests to declare.

The paper is interesting, but I think there are some improvements that could be introduced.

In the abstract, the Authors talk about 3D cutting, but all the reported simulations are carried out in a 2D environment.

It would be interesting to know the material mechanical and physical characterization: in which conditions have the simulations been conducted? Do the simulations consider perfect plastic or elasto-plastic material?

For many figures (1, 3a, 3b, 4), the cutting conditions (cutting speed, feed/tooth, depth-of-cut) are not given. In the same way, the tool characteristics are absent. Some figures show a tool with a positive rake angle, others show a tool with a negative rake angle, and in some cases, the chip breaker is also present. This can create confusion in understanding the reported results.

It is not completely clear if this paper is a review paper or if the Authors carried out either simulations or experimental tests in cutting Ti alloy.

The content of Fig.5 is not a novelty and, in my opinion, it is too generic: I don't see any specific added value for Ti alloy machining. Is there any possibility of giving numerical values?