|  |
| --- |
|  |
| Book Name: | [Engineering Research: Perspectives on Recent Advances](https://www.bookpi.org/bookstore/product/engineering-research-perspectives-on-recent-advances-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_3903** |
| Title of the Manuscript:  | **An Analysis of Chip Formation and Hole Circularity in Drilling Applications: An Aircraft Components Perspective** |
| Type of the Article | **Book chapter** |

|  |
| --- |
| PART 1: Comments |
|  | Reviewer’s comment | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **The manuscript deals with the drilling process, defects in the drilling of aluminum alloys, chip formation, hole circularity and the effects of drilling parameters on hole quality. The manuscript contains information that can shed light on both academic and industrial applications. Materials need to be drilled in order to be assembled at the place of use in aviation, space, defense, automotive, molding, etc. sectors. Especially in the aviation industry, hole quality plays a critical role in terms of safety, performance, durability and cost management. This manuscript contributes to the processes of obtaining the holes required for the aerospace industry.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **The current title attracts the attention of readers in the aviation sector. However, the article is about the drilling of AL6061- T6 alloy.****The title is appropriate and remarkable. But alternatively it could be ''Chip Formation and Hole Circularity analysis in conventional drilling of AL6061- T6 alloy'' or ''Effect of feed rate on Chip Formation and Hole Circularity in drilling of AL6061- T6 alloy''** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **The abstract clearly describes the article. Numeric values related to the results can be added to the abstract.** |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **Yes, the manuscript is scientifically correct. Very high-precision devices and measuring instruments were used in the preparation of the manuscript. However, the precision of all machines and devices used in manufacturing and measurements must be specified. What are the machine accuracies? (for example 0.0005mm)****→ a vertical centre machine (Model: MAZAK Nexus 410A-II)****→ a coordinate measuring machine (Mitutoyo CRYSTA-Apex, CMM)****→** t**he digital micrometre (Mitutoyo Digital Micrometer IP65)** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **The references used in the manuscript are not very up-to-date.****2004-1****2005-1****2010-1****2012-1****2014-3****2015-1****2016-2****2017-2****2018-3****2019-1****2020-1****2021-3****Since the manuscript involves the drilling and hole accuracy of aerospace materials, I think that the recent publication** [**https://doi.org/10.1016/j.jmapro.2023.01.072**](https://doi.org/10.1016/j.jmapro.2023.01.072) **will contribute to this manuscript.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes, the language of the article is suitable for scientific communication, but professional support can be obtained to improve it.  |  |
| Optional/General comments | I think the article will appeal to a wide readership by benefiting both science and industrial applications. |  |

|  |
| --- |
| **PART 2:**  |
|  | **Reviewer’s comment** | **Author’s comment *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*** |
| **Are there ethical issues in this manuscript?**  | ***(If yes, Kindly please write down the ethical issues here in details)*** |  |

|  |
| --- |
| **Reviewer Details:** |
| Name: | **Ferhat Ceritbinmez** |
| Department, University & Country | **Iskenderun Technical University, Turkiye** |