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| 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\_5731** |
| Title of the Manuscript: | **The theoretical bases and study parameters with FEA application approach on a bending tool design** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**IOP Conf. Series: Materials Science and Engineering 568 (2019) 012064.**

**Doi:10.1088/1757-899X/568/1/012064**

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | 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 topic is important as it highlights application of FEA modelling to tooling design. FEA is important as it helps designers to understand points oof weaknesses in the design that could be reinforced before the actual manufacturing is done. FEA also helps in managing design costs.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **The title sounds confusing…..theoretical bases and study parameters part will easily throw readers off the track**  **Design of a bending tool using Finite Element Analysis or Application of FEA in the design of a bending tool** |  |
| 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 lacks the methodology used and results obtained, instead it provides a long and confusing description of the bending process itself. Elasto-plastic deformation sounds like there is some kind of sprimgback action during the bending itself. What is being bent here is it the aluminium plate, what kind of a bend and what is the thickness of the plate?** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **More clarity is required about the part being produce and the tool being proposed. The manuscript can be definitely improved and be more scientific with more citations** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **Not sufficient some of them not scholarly sources only 8 sources have been cited** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Can be improved |  |
| Optional/General comments | Paper requires revisions |  |

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| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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 detail)* |  |

**Reviewer details:**

**Blessed Sarema, Zimbabwe**