## Review Form 1.7

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| Journal Name: | **Journal of Engineering Research and Reports** |
| Manuscript Number: | **Ms_JERR_110040** |
| Title of the Manuscript: | **Structural Design and Analysis of the Unloading Robot on the Broaching Machine** |
| Type of the Article | **Original Research Article** |

**PART 1: Review Comments**

| | **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)* |
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| **Compulsory** REVISION comments<br><br>**1. Is the manuscript important for scientific community?**<br>(Please write few sentences on this manuscript)<br><br>**2. Is the title of the article suitable?**<br>(If not please suggest an alternative title)<br><br>**3. Is the abstract of the article comprehensive?**<br><br>**4. Are subsections and structure of the manuscript appropriate?**<br><br>**5. Do you think the manuscript is scientifically correct?**<br><br>**6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.**<br><br>**(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)** | This manuscript holds an important design for industrial manufacturing processes and it is vital aspect to understand the loading capabilities of any robotic arm or any other mechanism. Is your robotic mechanism has some validation from any previous work?<br><br>Abstract claims "the automatic loading and unloading" and have missed the degrees of freedom for robot working. The title "structural design and analysis of (X) DOF's robot/manipulator for pick and place on the broaching machine" should be more appropriate for this manuscript and why there is a need of optimization scheme. Abstract must have highlighted the limitations of this mechanism in (if any).<br><br>Abstract is too lengthy. It must has some introduction with strong emphasis on process variables and performance parameters. Analysis result and the validation if any.<br><br>This manuscript has lacked in "problem formulation" and less "literature survey". It is a suggestion to include it as separate section or otherwise increase the referencing of latest work regarding this type of mechanism in introduction section. This will put more interest for readers. Also add the geometric constraints.<br><br>Yes it is scientifically correct as it has also discussed working vibrational range. Please add the range of working loads for this machine. Also add the variety of parts to be gripped by your gripper. Add the initial design for motor selection and other suggestions as described above.<br><br>References are very less and are not latest either. | |
| **Minor** REVISION comments<br><br>**1. Is language/English quality of the article suitable for scholarly communications?** | It needs to be more proficient. | |
| **Optional/General** comments | | |

## Review Form 1.7

**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)* |
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| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* | |

**Reviewer Details:**

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|---|---|
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