

Review Form 1.6

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_92420
Title of the Manuscript:	Optimization design of tension machine frame based on Solidworks and ANSYS Workbench
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaljerr.com/index.php/JERR/editorial-policy>)

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)
Compulsory REVISION comments	NIL	
Minor REVISION comments	In section 4(2) grid division: Authors have written about number of grids (elements) and number of nodes. I suggest authors to write the type of the elements what they have used from Ansys and also the properties of the element so that the results from this analysis is accepted for the proposed optimization. In section 4 (1) it is mentioned that yield limit of the material is 345MPa. I suggest authors to write any factor of safety they have considered for the design because authors allowed equivalent maximum stress 170.24mpa. Page 7 line 2 from bottom: The minimum maximum equivalent maximum stress eqσ=166.66MPa – please change the sentence. Page 7 last line: The minimum deformation displacement is 0.33934mm, and the maximum deformation displacement is 0.40228mm --- what is deformation displacement? Change the sentence. Authors have again check the manuscript error free in language writing.	
Optional/General comments	Authors have worked on weight optimization of tension machine frame based on stress analysis using FEM. They used solid work to model the tension machine frame and used Ansys to analyses stresses and proposed 7.11% reduction in weight of the machine. It is a good work. Paper writing may be improved.	

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:

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