



SDI Review Form 1.6

Journal Name:	Advances in Research
Manuscript Number:	2015_AIR_18480
Title of the Manuscript:	A MODEL FOR CALCULATING THE MACHINING TIME OF A LASER CUTTING MACHINE
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:

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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)
<u>Compulsory</u> REVISION comments	In the model, thickness of the workpiece and material is not considered. These two parameters are influential in this process. This model is not valid for other materials and for other thickness.	The beam parameters (current, pulse width and frequency) are selected depending on the thickness of the work piece; the cutting parameters (fixed focal point and cutting speed) determines the machining time. The operator first select the beam parameters based on the thickness of the work piece to be cut and later select the process parameters, mainly speed, after ensuring that the beam parameters selected could pierce through the work piece of a particular thickness. Therefore, the beam quality can be selected to cut at a higher or lower speed for different thicknesses. For instance, if the parameters are set to cut a 2 mm mild steel plate at 60 rev/min, a 3 mm mild steel plate can also be cut at 60 rev/min if the parameters are raised higher. This has been experimented often time on the machine. So, the model is valid for all thickness and material that the machine can cut.
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		