



SDI FINAL EVALUATION FORM 1.1

PART 1:

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 Article	Original Research Article

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
<p>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.</p> <p>Authors mentioned the above response. Means, beam parameters are depends on thickness of the workpiece. But it is not considered in the model. And also, in my opinion cutting parameters depends on material hardness, melting point etc. those are not considered in the present model. Only geometry is considered in this. Hence, this model is valid for only this material.</p>	<p>The scope of the work is limited to obtaining machining time; this is directly dependent on the 'cutting parameters'. The 'beam parameters' determine the intensity of the laser output; hence, the thickness, hardness and melting point of the work piece should be considered relative to the 'beam parameters'. Also, it should be noted that the assumption made from this statement is that the operator must have chosen the right beam parameters (current, pulse width and frequency) to pierce the work piece before considering the appropriate cutting parameter (speed) for cutting.</p>