

## **ESTIMATION OF A DEFLECTION FOR A RECTANGULAR PLATE OF A POWER PRESS MACHINE**

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### **Abstract**

A power press machine is extensively used for producing structural parts from sheet metal. This machine does the work of pressing with the help of hydraulic cylinder, which is mounted in between two plates with the help of bars. During pressing operation, the top and the bottom plate have experiencing the opposite forces in different planes, which may result in deflection of these plates. Therefore, this deflection results in bending of the bars. Hence, this paper proposes a method to find out the basic reason behind the bending of these bars used in hydraulic power press.

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**Keywords:** power press, finite element method, deflection analysis

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