PNEUMATIC SHEET METAL CUTTER

Major project report submitted

In partial fulfillment of the requirements of the degree of

Bachelor of Technology

in

Department of Mechanical Engineering

by

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Under the Supervision of

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CERTIFICATE

It is certified that the work contained in the project report titled "**Pneumatic sheet metal cutter**" by the following students:

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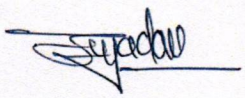
has been carried out under my/our supervision and that this work has not been submitted elsewhere for a degree.



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DECLARATION

I declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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ABSTRACT

The sheet metal cutting process is a main part of the all industries. Normally the sheet metal cutting machine is manually hand operated one for medium and small scale industries. In our project is **"Pneumatic Sheet Metal Cutting Machine".**

Normally the sheet metal cutting machine is manually hand operated for medium and small scale industries. This paper gives an insight about the automatic sheet metal cutting machine. Any automatic machine aimed for economical use of man. In this paper, Pneumatic cylinder is used for cutting in easy way which can be used in small scale industries at lower cost.

The sheet metal cutting machine works with the help of pneumatic double acting cylinder. The piston is connected to the moving cutting tool which is used to cut the sheet metal. The cutting process is operated by a direction control valve by using compressor. In manual method sheet metals goes to sharp sometime because of wrong dimensions, improper cutting etc. Hydraulic machines are also used for sheet metal cutting. But these machines are used for heavy metal cutting and its cost is very high. Hence, we are using a pneumatic system for sheet metal cutting in a easy manner. The main advantage of pneumatic sheet metal cutting machine is to improve product quality, repetition of work and increasing production rate.

Table of Contents