

FABRICATION OF PNEUMATIC SHEET METAL BENDING MACHINE

A project report submitted In the partial fulfillment of the requirements for award of
degree of

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IN

MECHANICAL ENGINEERING

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CERTIFICATE

This is to certify that the project entitled “**FABRICATION OF PNEUMATIC SHEET METAL BENDING MACHINE**” is this record of the work carried out by **KOMMOJU DURGA RAJESH (18815A0330), PAPANA PAVAN KALYAN (18815A0344), KONAKALA JASWANTH (18815A0331), and KATARI UDAY KUMAR (18815A0329)** students of final year B. Tech in the department of Mechanical engineering. This work is done for the partial fulfillment for the award of BACHELOR OF TECHNOLOGY during year 2018-2021.


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ABSTRACT

A forming press, commonly shortened to press, is a machine tool that changes the shape of a work-piece by the application of pressure. The operator of a forming press is known as a press-tool setter, often shortened to tool-setter. Bending is used in industries for a wide variety of uses, including blanking and pressing. There are many different types of bending. The most popular are pneumatic bending and hydraulic bending. But pneumatic bending is more preferable than hydraulic bending. The greatest advantage of Pneumatic bending is their speed. Pneumatic bending is 10 times faster than hydraulic bending and they can perform many jobs faster and more efficiently. Pneumatic bending is extremely flexible, that they can be placed in a factory in any required position, even upside down. The objective of our project is to Design and Fabrication of Pneumatic bending capacity of and to make a Bend of 6mm thickness TMT rod. The main objective of this project is to implement the Pneumatic rod bending machine in the construction sites with less cost compared to the existing bending machines, and increasing the productivity of the stirrups. The bending machine is one of the most important machine tool in sheet metal work shop. It is primarily designed for bending. The bend has been made with the help of punch which exerts large force on the work clamped on the die. The bending machine is designed in such a way that, it works automatically.