

VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELGAUM



A Project Report on

Design and Fabrication of Pneumatic Sheet Feeder

**Submitted in partial fulfillment of the requirement of the award of the degree of
Bachelor of Engineering
in
Mechanical Engineering**

Submitted by

Patil Virendra Mahavir

4BB06ME034

Amitkumar Ajit Patil

4BB08ME004

Dhabu Rajvardhan Annasaheb

4BB08ME018

Kole Shantinath Dilip

4BB08ME027

Under the Guidance of
Mr. SRIKANTH .G. D. B. E., M.Tech.,
Assistant Professor



DEPARTMENT OF MECHANICAL ENGINEERING
Bahubali College of Engineering
Shraavanabelagola-573 135
2011-12

ABSTRACT

Sheet metal is simply metal formed into thin and flat pieces. It is one of the fundamental forms used in metal working which can be cut and bent into variety of different shapes. There are many different metals that can be made into sheet metals, so sheet metals has large applications such as in car bodies , air plane wings, medical tables, roofs of buildings and many other things. As there is need of sheet feeding for different processes, we are introducing a “Pneumatic Sheet Feeder” which will be efficient, easy to use as well as economical.

The “Pneumatic Sheet Feeder” is used to feed the sheet automatically by using compressed air. Generally this operation can also be done manually but it is not efficient for mass production and it is laborious, time consuming also the cost of the production increases. The above limitations can be overcome by pneumatic sheet feeder machine. The main aim for selecting this project is to reduce the cost of the unit and also to reduce the man power required.

The basic principle on which the project works is based on pneumatics. The pressurized air from an air compressor is used for working of two cylinders. One cylinder is used to feed the sheet while another one is used for clamping of the sheet.