

DESIGN ARCHITECT OF CONTINUOUS AUTOMATED MONOGRAM PUNCHING MACHINE

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Submitted By

BHAKTI KHOT	2GI06IP006
JYOTI ONKARI	2GI06IP007
MEGHNA RAWAT	2GI06IP011

Under the Guidance of

Prof. S. SHIVAKUMAR



**DEPARTMENT OF INDUSTRIAL AND PRODUCTION
ENGINEERING**

Karnatak Law Society's

GOGTE INSTITUTE OF TECHNOLOGY

Udyambag, Belgaum- 590008

Visvesvaraya Technological University, Belgaum

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ABSTRACT

In most of the industries, there is a need for introducing automated machines, which can replace labor so that production rate can be increased with the lesser capital investment. Automation is specially needed where the work is monotonous and laborious, which also affects the accuracy of the work. The process of punching has always been an interesting operation. The reason being the permanent plastic deformation above the ultimate stress.

Design architect of Continuous automated monogram punching machine is a machine that deals with permanent plastic deformation. The deformation is required so that the logo is impinged on the raw material. This is necessary to ensure the return of specific raw material which is being sent out for subcontracting. This machine works on the principle of potential energy that is stored in fly wheel providing the punching action. The whole machine is automated using a PLC which is integrated with the specific motor. A design of bed has also been provided which holds the raw material during the punching operation.