

RE-BAR BENDING MACHINE

(SPONSORED BY K.S.C.S.T)

*A project Report Submitted in partial fulfillment of the requirement for the
Award of the Degree of Bachelor of Engineering in Mechanical
Engineering of the Visvesvaraya Technological University, Belgaum.*

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2011-2012

ABSTRACT

The purpose of this machine is to bend the bars automatically. The bars used in construction are usually called as Re-bars (Reinforced bars), since they are reinforced into concrete structures. The function of these bars is to provide greater strength to the structure.

The bending action of bars is carried out using hydraulic power since it is efficient. The mechanism used in this is using rack and pinion arrangement. Here the reciprocatory motion of rack and cylinder is converted into rotary motion of pinion and bending die.

This machine also consists of automatic feeding mechanism and hydraulic cutting mechanism for faster, easier and safety operation.

By using this machine we can reduce the stress involved to the worker to bend it manually. And also we can achieve accurate bend angles.