

WRINKLE FREE TUBE BENDING MACHINE

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

A Project Report submitted in the partial fulfilment of the requirements for the award of Degree Of Bachelor Of Engineering in Mechanical Engineering Of the Visvesvaraya Technological University, Belgaum.

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ABSTRACT

The purpose of wrinkle free tube bending machine is to reduce the human efforts, save the time and get the wrinkle free tube bends. In small scale industries the bending of tubes and bars is carried out manually, which need more effort & time, even the tubes or bars may brake if process is not carried out properly. The available tube bending machines are costlier and the skilled worker is needed to do the operation.

In this project we are using hydraulic power to operate the machine. This is semiautomatic hydraulic machine, which is used to bend the tubes and bars. The main objective of the project is to produce the wrinkle free tube bends, with the gradual & continues application of the pressure on the tube and with slow forward stroke of the ram the wrinkle free tube bends are obtained.