

Bar Bending Machine

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Abstract: *Mechanical Engineering without production and manufacturing is meaningless. Production and manufacturing process deals with conversion of raw materials inputs to finished products as per required dimension, specification and efficiently using recent technology. The new development and requirements inspired us to think of new improvements in manufacturing field. In our project Pipe Bending Machine various diameters of bus bar is being bend with the help of this machine and various shapes is obtained like v- shape, circular, square, channel etc. It is widely used in various industrial operation such as bending a tube to make coil or sheet metal to make certain shape such as 'V' shape. This project is automated bus bar bending machine that that controls the bus bar bending according to our required angle. In our project we use mechanical arrangement to bending machine which may obtain various dimensions of bus bar is being bend and we get various angles of bending bus bar like 30,45,60,90 angles other than convectional methodologies involves major labor work, manual handling , layout setup, high cost etc. Hence to reduce labor cost, automation is required. The major intention of this project is to automate the bus bar bending process using electromechanical system to reduce cost effective and enhancing productivity. It is used in various industrial operation and workshops such as bending a sheet metal, copper bus bar and aluminum bus bar.*

Keywords: Motor operated mechanically metal bar bending machine

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