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Guided By

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Project Title

DESIGN AND DEVELOPMENT OF PIPE BENDING MACHINE

Abstract:

In modern days, all area of industries are going to like automated, economically and accurate machinery. Plastic deformation of tubes can be achieved in numerous ways. One of the most useful type is Automatic (Micro Controller operated) pipe bending machines which is used in many industries such as aerospace, automotive, Mfg. Industries and so on. It is important that all components of system should mate properly after producing and because of this bend shaping requires sensitive operation on each components to ensure regularity of production processes with high quality end-product. Thus, the CNC tube bending industry to become widespread. However it brings some troubleshooting like wrinkling, springback and breakage. This failures depends on geometry of the material such as bending radius, tube thickness and also friction factor between dies and the tube. The main features of the machine are frame, housing, rollers, lead screw, guide ways, dc motors, chain drive and shaft.

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