



Pantograph for Welding

This project was undertaken mainly to weld steel plates in circular and linear shape with desired accuracy and precision. The Panto-Welder consists of the traditional welding equipment along with a pantograph which is a mechanical linkage connected in a manner based on parallelogram and which is further used for copying and scaling line drawings and complex images. The working principle of panto-welder is based on four bar mechanism in which one link is fixed and other links are pivoted. These other links move according to the movement of the tracing link. This is a low cost, high value apparatus. In this project, a model of the Panto-Welder is designed using CAD packages like SolidWorks, pro-e etc. taking into consideration of the commercially available components. Care has been taken in the fabrication of components.