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TITLE: Design and fabrication of pantograph milling machine

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ABSTRACT

This project namely Pantograph Milling Machine (PMM) is designed and fabricated mainly to cut wood, plastics in to any shapes. The Pantograph consists of the traditional cutting equipment along with a pantograph which is a Mechanical linkage connected in a manner based on parallelograms and used for copying and scaling line drawings. This is low cost and high valuable equipment. The machine is simple and compact and is easy to operate. Even a lay man can understand the principle of this machine and can operate without any risk. In this project, a model of the Pantograph milling machine will be designed using CAD packages like Pro-e , Inventor etc taking into consideration of commercially available components. Care has been taken in the fabrication of components. Because the lack of accuracy in fabricated components would lead to a diminished performance of the machine.

Keywords: pantograph, milling, engraving

