Design and Fabrication of Pedal Operated PCB Cutting Machine

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Abstract: This project describes the design and fabrication of a cutter using mild steel for the Printed Circuit Board. The board contains cuprum as a trace to connect the electricity current to electronic component like resistors and capacitors. The Printed Circuit Board was widely used in electronic and electric components. The normal way to cut the Printed Circuit Board is using hand due to its sensitivity. By developing the cutter, it is easy to cut the printed circuit board with more efficient without damaging the board. The performance of the cutter that fabricates using mild steel is only average due to its hardness. It becomes dull very fast. This project presents a simple way of human work will be reduced and accuracy will be improved of cutting the PCB. The system will reduce the chances to getting hurt by the blades using the fabrication and covering by protecting glass Cutting is the separation of a physical object, into two or more portions, through the application of an acutely directed force. Knife and saw are the commonly implemented cutting tools. However, any sufficiently sharp object is capable of cutting if it has a hardness sufficiently larger than the object being cut, and if it is applied with sufficient force.

Keywords: Printed Circuit Board, Cutter, Pedal, Electric Motor

REFERENCES
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