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Design and fabrication of pedal powered hacksaw

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Abstract: The objective of the project is to minimize human effort in cutting wooden and plastic materials. To achieve this, we designed and fabricated pedal powered hacksaw by doing modifications in the basic crank and slider mechanism. The various parameters like stroke length, length of the belt, distance between the centre of the two pulleys (driven and driver) was calculated and with the help of this data, designing process initiated with two dimensional drawings. Finally, the design and fabrication of pedal powered hacksaw was successfully completed to cut materials like plastic, wood and less thickness metals with minimum effort and time.