

FABRICATION OF PEDAL OPERATED REAL TIME HACKSAW MACHINE

ABSTRACT:

Sawmill is an instrument or equipment used for cutting wood, plastic or any soft materials. It's one of the ancient equipment and required a kind of mechanical or physical energy to operate it.

Here in our project we are developing a pedal operated real time hacksaw machine to minimize the human effort. We use a real time bi cycle which is attached to hacksaw machine. This reduces the human effort and as we are using bi cycle, it in turn increased your health level as by cycle driving is a mean for burning fat and a good physical exercise.

PURPOSES:

The sawing machine is a machine tool designed to cut material to a desired length or contour. It functions by drawing a blade containing cutting teeth through the workpiece.

ADVANTAGES:

- 1) Easy to Handle and hassle free
- 2) Less investment.
- 3) It is faster and easier than hand sawing.
- 4) It produces an accurate square or mitered cut on the workpiece.

TYPES :

1. Power hacksaw
2. Band saw

Power hacksaw uses a reciprocating (back and forth) cutting action similar to hand hacksaw. The Power hacksaw is used for cutting square or angle stock.

Band saw uses a continuous band blade. A drive wheel and an idler wheel support and drive the blade.

TECHNOFIST