

## FABRICATION OF SOLAR OPERATED DRILL MACHINE

### SYNOPSIS

Solar power is the generation of electricity from sunlight. Solar power is the conversion of sunlight to electricity. Sunlight can be converted directly into electricity using photo voltaic (PV), or indirectly with concentrating solar power (CSP), which normally focuses the sun's energy to boil water which is then used to provide power, and technologies such as the Sterling engine dishes which use a Sterling cycle engine to power a generator. Photo voltaic were initially used to power small and medium-sized applications, from the calculator powered by a single solar cell to off-grid homes powered by a photovoltaic array.

Drilling is a cutting process that uses a drill bit to cut or enlarge a hole in solid materials. The drill bit is a multipoint, end cutting tool. It cuts by applying pressure and rotation to the work piece, which forms chips at the cutting edge. One study showed that drilling accounts for nearly 90% of all chips produced.

### INTRODUCTION

The present situation in our country all the types of drill machine is working on AC main. To reduce the power consumption from the electricity board, we need to have some kind of power source system to operate the cutting machine. We are trying to implement a prototype model of an drill machine system within the limited available source and economy. The system can be subjected to further development using advanced techniques.

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## FEATURES

- 1 Drill upto 9mm
- 2 No need of main it will work on solar powered battery
- 3 Economically cheap
- 4 No montly payment for eletricity
- 5 It will start when drilling plate is placed at drilling place other wise it will not
- 6.base plate can be adjustable vertical as well as horizontal movement by motor