

ABSTRACT

FABRICATION REMOTE OPERATED DRILL MACHINE SOLAR OPERATED

The real power required for machine equipment depends on the resistance to the movement of it. Some of these resistances are the wind resistance, the rolling resistance and the gradient resistance.

Even now, in 98% of the contemporary machines that run, this power for movement is provided by the burning of fossil fuels in the IC engines or the external combustion engines. This, as evident, has led to widespread air, water and noise pollution and most importantly has led to a realistic energy crisis in the near future.

The main aim for our project has been to develop a remote operated drill machine, which is solar and wind powered. In this machine we use a solar panel and horizontal wind turbine to capture and convert solar and wind energy into electrical energy which in turn is used to charge four 12V batteries, which then gives the necessary power to a shunt wound DC motor. Consequently, in this project an attempt is made to make the electric and mechanical systems share their powers in an efficient way.

Thus taking into consideration the ever increasing pollution levels and the stringent pollution norms (EURO-II and onwards) set up by the POLLUTION CONTROL BOARDS, and since the fossil fuels are depleting, probably may last within the decades to come or earlier, and to reduce the running cost of the drill machine, we are in an attempt to incorporate the above mentioned features in our drill machine.

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