

## FABRICATION OF REMOTE OPERATED SCREW JACK

### ABSTRACT:

A jack is an important accessory with a light motor vehicle as well as heavy motor vehicle. It is used to lift the vehicle in order to replace the wheels easily.

All existing jack's that are in use with a light motor vehicle are operated manually causing inconvenience and unnecessary wasting of time.

This project is concentrated on modifying the existing screw jack to enable easy lifting of the motor vehicle in a very short interval of time by using starters, which are controlled by starter switch without any effort.

In this project we are mainly replacing the nut of the screw jack with a couple geared with D.C. motor.

In modern days, human being have become more fashionable that he does not want even a little bit of his effort to be used. So, we made a attempt in our project to reduce the human totally in lifting the vehicle with the help of our motorized screw jack.

### INTRODUCTION:

Man has always been searching for various means to make life easier for him. With the advent of inflatable tyres, came the problem of punctured tubes and as a result the challenge to lift the car in order to place the wheel, the idea of jack was born.

Today various types of jacks are available in the market. With the objectives of reducing the human effort and comfortable lifting of vehicle, we are trying to make an attempt to modify the existing mechanical screw jack into motor-operated screw jack to lift the light motor vehicle.

## THE MAJOR ADVANTAGES ARE

1. Human effort is not required in lifting the jack.
2. Vehicle up to 5000 N can be lifted if high power motor provided
3. Since it is compact and occupies less space, it is portable
4. We have used starter motor, it can be driven by the car battery, hence it can be carried anywhere along with the vehicle and can be used to replace the tyres anywhere and anytime.
5. It produce music or sound while goes to upward and downward
6. Option we can connect the spy camera with this jack for monitor the bottom area of the car