

Electrical Grass Cutter

<https://www.youtube.com/watch?v=mMuiou8-5kA>

An electric grass cutter powered by a battery, DC motor, switch, and blade is a compact and efficient tool designed for lawn maintenance. The system operates through a rechargeable battery that supplies power to a DC motor, which in turn drives the cutting blade. The user controls the operation of the grass cutter via a simple switch, allowing for easy start and stop functionality. The DC motor offers precise control and efficient energy use, providing sufficient torque to rotate the blade at high speeds for effective grass cutting. The blade is designed to trim grass uniformly, ensuring an even cut across the lawn. This type of grass cutter is ideal for small to medium-sized lawns, offering the advantages of cordless operation, quiet performance, low maintenance, and reduced environmental impact compared to gasoline-powered models. Additionally, the battery-powered design makes it portable and convenient for use without the restriction of a power cord.

The main building blocks of the project are:

- **DC Motor:** Powers the blade to cut grass.
- **Battery:** Provides the necessary power to the motor (typically a rechargeable lead-acid battery).
- **Blade:** The cutting part of the device, typically a steel and round shape
- **Switch:** Used to turn the cutter ON and OFF.
- **Blade:** Round Blade to cut the grass.

Block Diagram:

