

Solar Power Seed Sowing Machine

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Abstract: *This study presents the design and development of a solar-powered seed sowing machine aimed at enhancing efficiency and sustainability in agriculture. The machine utilizes solar energy to power its operation, reducing the reliance on fossil fuels and minimizing carbon emissions. It is equipped with features for automatic seed sowing at optimal depths and spacing, improving crop yield and reducing manual labor. The machine's design is cost-effective and suitable for use in remote areas with limited access to electricity. Overall, this innovation offers a sustainable solution for modernizing agriculture practices.*

Keywords: ESP32, DcMotorx2, Dummy Shaft x2, L298N, 12v Battery Pack, Servo SG90, 1 Channel Relay Module, 4x4 PCB Female Bug Strip x 1, Male Bug Strip x2, 12v solar panel.