



Fabrication of Automatic Portable Sieve Machine

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Abstract: A sieve was a device that used a woven screen, such as a mesh or net, to separate desired elements from undesired material or to characterize the particle size distribution of a sample. The main problems of the sieve were that it required a lot of human energy and requires a long time to sieve the flour. The sieve could not sieve in a large amount due to their size and capacity and made the user feel tired quickly, making it a massive chore to do. Methodology was the rules or procedures used to implement the project in detail. Dinamo grater was our project concept which was this project used rotation from electric power to make this machine move automatically. The weight of flour that could be sifted by the machine in one time was 5 kg, require 30 minutes to complete one cycle of sieving and estimated 20 kg for this machine eight. Project planning and phases were made and being implemented during the project production in order to ensure the process went smoothly. It also helped to as a reference to ensure that we achieve the objective on time. For recommendation, our project would sift 10 kg flour in one time, had a 10 kg weight and could sifted 5 - 20 minutes for completed one cycle of sieving.

Keywords: Mild Steel Angle, Sheet Metal, MS Flat, DC Motor/Wiper Motor, Battery (12V), Shaft, Sieve, Nut bolts.

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