

Design and Fabrication of Paper Shredder Machine

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Abstract— This paper deals with a detailed study & design procedure of a paper shredder machine. A detailed study of various parts of shredder machine like stand (frame), transmission system and cutting system are made and designed separately. The first part deals with the study of cutting system of a shredder machine i.e. types of blades, different profiles, its dimensions, its alignment, advantages and disadvantages of different types of blades. The second part includes problem definition, objectives, procedure of design with the detailed design of each component of the cutting and transmission system i.e. designing a blade and making certain modifications in it and the frame. The third and last part deals with the design of 3D model of various parts on Dassult Systems "SOLIDWORKS 2014" and its motion study and the analysis of the stand in ANSYS 15.

Keywords— SolidWorks2014, ANSYS15, Shredder Machine.

INTRODUCTION

A paper shredder is a mechanical device used to cut paper into chad, typically either strips or fine particles. Government organizations, businesses, and private individuals use shredders to destroy private, confidential, or otherwise sensitive documents. Privacy experts often recommend that individuals shred bills, tax documents, credit card and bank account statements, and other items which could be used by thieves to commit fraud or identity theft.

Types of paper cut:-

i. Strip-cut shredders: - These rotating knives to cut narrow strips as long as the original sheet of paper. Such strips can be reassembled by a determined and patient

investigator or adversary, as the product (the destroyed information) of this type of shredder is the least randomized.

ii. Cross-cut or confetti-cut shredders: - They use two contra-rotating drums to cut rectangular, parallelogram, or lozenge (diamond-shaped) shreds.

iii. Particle-cut shredders: - They create tiny square or circular pieces.

iv. Cardboard shredders: -They are designed specifically to shred corrugated material into either strips or a mesh pallet.

v. Pierce-and-tear shredders: -They have rotating blades that pierce the paper and then tear it apart.

vi. Grinders: -They have a rotating shaft with cutting blades that grind the paper until it is small enough to fall through a screen.

vii. Disintegrators and granulators: -They repeatedly cut the paper at random until the particles are small enough to pass through a mesh.

Objectives:-

1. To formulate a study on different elements of the shredder machine like the blades, frame, transmission system, etc.
2. To design a machine which will produce less noise and vibrations.
3. To construct a machine which will shred 20 sheets (A4 size) at once.
4. To keep the cost of construction as low as possible without compromising the final output.

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