



**DESIGN AND FABRICATION OF AUTOMATIC
PAPER CUTTING MACHINE USING
CRANK LEVER MECHANISM**



A MINI PROJECT REPORT

Submitted by

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In partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

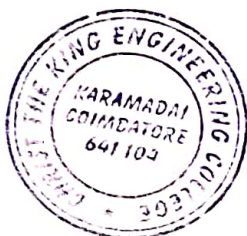
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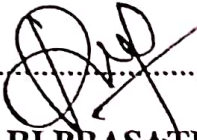
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BONAFIDE CERTIFICATE

Certified that this project work titled "AUTOMATIC PAPER CUTTING MACHINE USING CRANK LEVER MECHANISM" is the bonafide work of KIRUBAKARAN J(710420114011), MOHAMMAD HABEEB RAHMAN .S (710420114016), AND THARUN VIGNESH.A.P (710420114327),who carried out the project work under my supervision.



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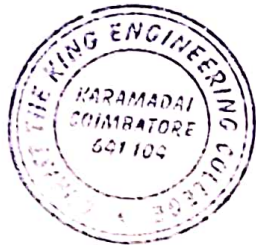
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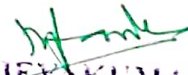
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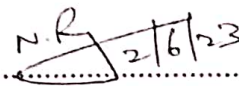
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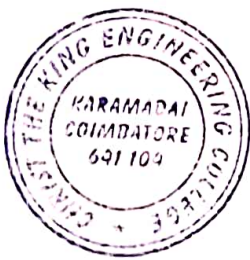


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ABSTRACT

For cutting papers to precisedimensions, the design and construction of a paper cutting machine based on the mechanism of gear is advantageous. The gear is an arrangement device that changes continuous motion to intermittent motion, allowing paper to be delivered at uniform intervals between cutting phases.

A crank and lever mechanism is then used to slice the paper. The idea of this concept is to design a mechanism of gear that drives paper cutter that reduces the amount of hour specified for paper marking and also aids in the of equal-sized paper in each revolving. It saves time due to its automated operations



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CHAPTER 9

9.1 CONCLUSION

In conclusion, an automatic paper cutting machine that uses crank lever mechanisms has a number of advantages and advances. The crank lever mechanism is a well-known and frequently used mechanical device praised for its ease of use, efficiency and accuracy.

The automatic paper cutter converts rotary motion into linear motion using a crank lever mechanism, allowing for precise and controlled paper cutting. The machine has a number of parts, including the crankshaft, connecting rod and cutting disc, which work in tandem to perform the cut.

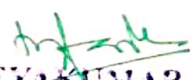
The ability to automate this machine is one of its main advantages. The device can cut paper autonomously by integrating motors and sensors, reducing the need for manual assistance and increasing performance. By reducing the likelihood of human error and accidents associated with manual cutting, the automation element also increases safety.

The crank lever system also guarantees accurate and reliable cutting results. Thanks to the design's ability to precisely control the movement of the cutting blade, different sizes and thicknesses of paper can be cut cleanly and evenly. For industries such as printing, packaging and stationery where accurate paper dimensions are critical, this degree of accuracy is essential.

The automatic paper cutter is also adaptable in terms of setting the cutting parameters. To accommodate different paper types and cutting requirements, operators can vary cutting speed, blade pressure and cutting angles. The machine's suitability for a wide range of applications is enhanced by its flexibility, which at the same time improves its general usability.

In conclusion, the paper cutting industry has advanced significantly with the automatic paper cutting machine that uses crank lever mechanisms. It offers increased productivity, accuracy and adaptability thanks to its automation capability, precision cutting and moving parameters. This equipment is an example of how mechanical paper processing systems are constantly evolving and evolving as useful tools for various industries.




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