

AUTOMATIC BROOMSTICK MACHINE

Team members:-

Indhunath V(22ECR069)

Kaviprashaad L(22ECR078)

Nisha Priyaa M(22ECR123)

Ponkaviya PB(22ECR129)

Mentor:-

Dr. S.Sasikala, B.E.,M.E,Ph.D,

Associate Professor/ECE, Kongu Engineering College.

Abstract:-

The Automatic Broomstick Machine is a simple and efficient system designed to convert coconut leaves into broomsticks with minimal manual intervention. This machine aims to address the challenges of manual broomstick production, such as time consumption and physical effort, by automating the cutting and processing steps. The working process is straightforward: the operator inserts a coconut leaf into the machine's feeding system. A motor-driven mechanism pulls the leaf into the machine, guiding it through a sharp blade that trims and processes the leaf to produce a smooth, consistent broomstick. The output is collected at the other end, ready for bundling or further finishing. The machine incorporates a motorized blade system that ensures precise cutting while minimizing wastage. Its compact design makes it suitable for small-scale industries and cottage businesses. By automating the production process, the machine significantly reduces labor effort and production time while ensuring uniform quality in the output. This system provides an affordable and user-friendly solution for broomstick manufacturing, especially in regions where coconut leaves are abundantly available, supporting local businesses and promoting sustainable practices.

Approximate cost: Rs. 3500/-