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DESIGN AND DEVELOPMENT OF A COMPREHENSSIVE BAMBOO PROCESSING MACHINE AND ESTIMATION OF POWER REQUIRED FOR EACH PROCESSING OPERATIONS

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Abstract

The present work explained about design and development of a machine with specialty of multiple operations of bamboo processing in a single unit. The details of construction and working of newly developed machine is explained in this paper. The power estimation for individual processing of bamboo is also included in the paper. This also includes mathematical models for individual operations such as cross cutting, external knot removal(two side planning), internal knot removal, sliver(slats) and stick making on the basis of experimentation data chosen, using methodology of engineering experimentation.

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