DESIGNING BAMBOO’S SHARPEN MACHINE USING
QUALITY FUNCTION DEPLOYMENT (QFD) AND
TEORIYA RESHENIYA IZOBRETA TELSKIKH ZADATCH
(TRIZ)
(Case Study: CV Enggal Jaya - Semarang)

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Abstract

CV Enggal Jaya is a bamboo handicraft industry which produces bird cage and toothpick. The amount of demand requires a company to produce in a high capacity and quality of products that match consumer demand. However, the constraints due process that are manual sharpen still make the company feel the need to design a new bamboo sharpen machine. This new machine will be able to produce the desired diameter bamboo accordance with high accuracy without the need for a long time.

This bamboo sharpen machine design using Quality Function Deployment (QFD) and Teoriya Resheniya Izobreta Telskikh Zadatch (TRIZ). Both methods are able to clearly define and evaluate all the wishes and needs of consumers, and to find solutions and suggestions on wish fulfillment and the most vital needs of the user.

In this study generated new bamboo sharpen machine using two roller mechanism that rotates the dynamo. This new machine can produce 98 - 3 mm diameter - bamboo rod in a single process.

Keywords : Machine Design, bamboo sharpen, QFD, TRIZ
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