DESIGNING TERI NASI SIZING MACHINE BASED ON LENGTH GRADER PRINCIPLE BY USING QUALITY FUNCTION DEPLOYMENT
(Case Study: PT Insan Citraprima Sejahtera Jenu - Tuban)

Name : Dewanti Anggrahini
NRP   : 2506 100 020
Department : Industrial Engineering FTI-ITS
Supervisor : Dr. Ir. Sri Gunani Partiwi, M.T.
Co-Supervisor : Ratna Sari Dewi, S.T., M.T.

Abstract
The export commodity which has high potential is teri nasi (Chirimen). A company that manages teri nasi is PT Insan Citraprima Sejahtera Jenu located in Tuban. Around 95% of the company’s products are for export. But in the production process of teri nasi, there are some bottlenecks, one of them occurred in the sizing process (separating teri nasi according to the fish length to match the standards set). In the existing process of sizing teri nasi, the company used machines which still conventional. Therefore needed a few times round to sorting through separate in accordance with the standards size set. From these cases arise the needs of companies for a machine could separate the teri nasi’s size in accordance with the size set without the need for a long time and having a high accuracy.

The design of sizing machines for teri nasi was using a method of Quality Function Deployment (QFD). QFD method is a structured method of developing products that enable product development teams to specify clearly all the desires and needs of consumers and evaluate each product’s ability to systematically offered to meet the needs.

In this research has designed a new sizing machine using multilevel sieve mechanism that is activated by using a dynamo. This new sizing machine has 450 kilograms per day or 56 kilograms per hours capacity. It makes the number of output has 125% increased.

Keywords : Designing Machine, Teri Nasi, Ergonomic, Quality Function Deployment
“Halaman ini sengaja dikosongkan”