ABSTRACT

Automation technology is growing very rapidly and is touching many areas. As an example application of automation is in agriculture. The agricultural sector in Indonesia is growing very rapidly, especially in West Java. The agricultural sector is a commodity that can give a big hand and a real role in the development of the economic life of society. Referring to the problems mentioned above, the researcher wanted to conduct research on issues contained in the process of sorting products (vegetables) which will be marketed in the modern market, especially the problem size increased level of accuracy in the sorting process automation systems to design products with product separation by size, so it can help farmers or local distributors to sort vegetables are appropriate standards of quality modern market that will be marketed and minimize human error during sorting and also to further improve the efficiency of labor utilization which can automatically increase productivity.

This research will be focused in the design automation system of separation of products by size by using physical methods to increase productivity and minimize human error during the process of product separation.

From these results it is concluded, the system automation products based on size separation has been successfully designed in accordance with design scenarios that have been made. And for further research, can be performed research design automation system of separation products based on other parameters besides the size.

Keyword : Automation, Size, Human Error, Productivity