

**ESCARGOT SORTING BASED ON WEIGHT BY USING
ELECTROMAGNETS**

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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ABSTRACT

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A sorting machine is a machine capable of sorting a large group of different objects into specific categories, such as color, weight, size, or shape. This type of machine is widely used in industries, but there are rarely any machines that sort escargots specifically. Most escargot sorting in Indonesia is still done manually by hand. The machine that I developed is of a typical weight sorting machine, but using electromagnets instead of regular permanent magnets. Electromagnets help in increasing sorting accuracy since they can be easily controlled. The escargot is put onto a tray held stable by an electromagnet. The strength of the magnet decreases as time goes by and at one point when the weight of the escargot surpasses the electromagnetic force, the escargot will drop onto a tray labelled according to their weight categories (small, medium, and large). This way, the heavier escargot will fall earlier and the lighter escargot will fall latter. By applying this method of sorting, the productivity of the escargot industry will increase. At the same time, it reduces the possibility of error occurrences that can be easily caused by humans.

Keywords: Electromagnet, weight sorting, escargot, magnetic strength



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DEDICATION

I dedicate this works for my beloved parents, Swiss German University, and the future of the country I was born in: Indonesia



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I have found my coursework throughout the Curriculum and Instruction program to be stimulating and thoughtful, providing me with the tools with which to explore both past and present ideas and issues.

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