

DESIGN AND FABRICATION OF A SHAPING MACHINE

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ABSTRACT

Nowadays, the vertical milling machine has replaced the shaping machine for many operations; however, it is still well being used in a workshop. We were surprised when we found that despite its simple design, a shaping machine produce a variety of work. By employing special tools, attachment and devices for holding the work, a shaping machine can perform functions like flatten surface cutting, angular cutting, plain cutting, slotting and cutting external or internal keyways. Due to the facts stated, we believed that many people are interested in knowing how a shaping machine really works. Upon this factor, we decided to produce a prototype that can show how the machine works. On top of that, we had done many works by the description and explanation in this report and of course, we have worked out the model and it is proven to be a great success.

So, we believed that this report had provided much useful guidance for anyone who is interested in the shaping machine. In this report, we explained from selection of materials, design process of the prototype until construction of the prototype and most importantly, how a shaping machine works.

Besides, we also include the plan schedule for carrying out the works so that readers can have better understanding on the flow of works. Conclusion and appendix also included in this report as well.

Overally, the purpose of the brief process explanation is to help reader to understand the basic principle of the manufacturing processes involved in making a shaping machine.