

# MANUAL BAR TWISTER

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## ABSTRACT

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The objective for this project are to learn the steps of designing a prototype, to learn in more detail about Machine Element and Component, to practice the internal skill and also to understanding the material/s characteristics and the calculation of the manual bar twister.

That is six-step in the design process for making the prototype, they are : a0 create a design, b) recognize the needed, c)prepare a model, d) test and evaluate the model, e) improve the design and f) communicate the design.