

HIGHER TECHNICAL INSTITUTE

MECHANICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

DESIGN OF AN ERECTING DEVICE  
FOR A FLAGPOLE

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BY: ADONIS S. AVRAAM

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# DESIGN OF AN ERECTING DEVICE FOR A FLAGPOLE

by

Adonis Avraam

Project report

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## INTRODUCTION

This project will be dealing with the design of erecting devices for three different flagpole heights: (a) 5 meters, (b) 15 meters and (c) 25 meters. The target is to design devices which are easy to use and construct.



## SUMMARY

The aim of this project is to design three different power transmission devices for three different heights. To accomplish this, a certain procedure was followed.

First, a need was identified and several objectives were stated. Then, a creativity phase followed, during which a number of ideas were generated, each one being a solution to the problem. The next stage was to select one of the proposed solutions for each case. For the selection, a benefit analysis was performed. After the selection, an optimization phase followed. During this phase, the specifications of the selected solutions were listed, the material for the construction was selected and calculations were performed. The last step was an estimation of the cost of the solution. At the, manufacturing drawings were attached, as well as catalogs of parts to be bought.