



MARA UNIVERSITY OF TECHNOLOGY
FACULTY OF MECHANICAL ENGINEERING
DIPLOMA IN MECHANICAL ENGINEERING
(EM 110)

FINAL PROJECT REPORT
(KJM 365)

BEARING PRESS

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ABSTRACT

The Final Year Project is one of the subjects for all the final year students of Diploma in Mechanical Engineering to complete their diploma. The purposes of this subject to expose the students with the equipment in the workshop watch over by the supervisors. This subject also train student on how to produce product within the required time, how to work in-group and how to produce a product in a manage situation. In this subject, Student will have to produce a product base on what they have studied. The product can be anything that inner contact with mechanical engineering.

This report contents the process of our project named as "bearing press". The processes clearly explained in chapter two of this report. We have done some investigation and research for this product. We found that this product is practical to produce base on some factor like this press bearing can easily to press bearing without any misalignment during bearing installation. In other words, it is too much better than hammer the bearing. It is because when we use a hammer, the bearing may be damage. So, we are sure this product will be getting practical to use. At the end of this report we only include result and discussion, application and conclusion of the project.

ACKNOWLEDGEMENT

In the name of ALLAH S.W.T., The Most Gracious who has given us strength and ability to complete this business plan. All perfect praises belong to ALLAH S.W.T., Lord of The Universe. May His Blessing upon The Prophet Muhammad s.a.w. and members of the family and companions.

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CHAPTER 1

1.0 Introduction

As we know that press bearing is most important in engineering to place the bearing without any problem when the bearing is under operation. The press bearing that we design is a common simple design but it can operate efficiently. The first idea that we develop in project, we are choose this "bearing press" consider from this advantage.

Advantages by using this machine:

1. Bearing; no damage when installation
2. No impact to the material/part surface
3. Can be placed in any position
4. Higher bearing's durability and life longer

A new or better machine is one which is more economical in the overall cost of production and operation. The process of design is a long and time-consuming one. From the study of existing ideas, a new idea has been conceived. The idea then studied keeping in mind its commercial success and given shape and form of drawings. In the preparation of these drawing care must be taken of the availability of resources in money, in men, and materials required for the successful completion of the new idea into and actual reality.