



MARA UNIVERSITY OF TECHNOLOGY

PRODUCT AND MOULD DESIGN FOR MOTORCYCLE STAND
USING CAD TECHNIQUE

By:

SAYUTI BIN NASHIR
99011036

ABDUL WAPI BIN HASHIM
99009848

DIPLOMA MECHANICAL ENGINEERING
MARA UNIVERSITY OF TECHNOLOGY (ARAU)

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Abdul Wapi bin Hashim

Sayuti bin Nashir

ABSTRACT

Nowadays an auto CAD system becomes a powerful tool to develop and enhance manufacturing design efficiency , particularly in plastic automotive and others metal part industries. By using this system , designer will be able to conduct an analysis in CAE subsequently after completing their design in CAD to determine whether the design is free from errors before the CAM work can take place.

In this project , the main objective is to evaluate the effectiveness of CAD system. For the purpose of design, AutoCAD software was used for the CAD system.

Through this , we were able to demonstrate the capabilities of CAD system, which can be used directly in design practice. The important gain of this project is to understand the CAD system, which lead to benefit , especially in design, engineering and manufacturing productivity processes.

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1.0 INTRODUCTION

1.1 METHODOLOGY

As we enter this new millennium, computer aided design (CAD) is become a major technique to design a new product. Many manufacturers are involved in designing processes such as metal parts, body parts, motor or mechanical parts need a AutoCAD program to produce a good product and better spec especially in solid modelling.

By using CAD system, manufacture become easy because, its can convert from CAD to CAM and CNC machine. When all these are considered, the production of products are become in a short time and also lower the operation cost.