



FINAL YEAR PROJECT REPORT

SOFTWARE DEVELOPMENT FOR THE OPERATION OF QUICK VISION MEASURING MACHINE

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CONTENTS

| | |
|--------------|---|
| SYNOPSIS | 1 |
| ACKNOWLEDGE | 2 |
| OBJECTIVE | 3 |
| INTRODUCTION | 4 |

CHAPTER 1

| | |
|---------------------------------------|----|
| 1. MEASUREMENT | |
| 1. 1 An Overview Of Measurement | 6 |
| 1.2 Example of Measurement | 6 |
| 1.2.1 Flatness Measurement | 6 |
| 1.2.2. Straightness Measurement | 7 |
| 1.2.3. Roundness Measurement | 10 |
| 1.2.4 Parallelism Measurement | 12 |
| 1. 3. Measuring Method | 14 |
| 1.3.1 Contact measurement | 14 |
| 1.3.2 Non - Contact Measurement | 14 |
| 1.3.2. 1 Laser Measurement | 15 |
| 1.3.2.2 Vision Measurement | 16 |
| 1.3.2.3 Optical Measurement | 17 |
| 1.4 Types of Geometric Measuring Unit | 18 |

CHAPTER 2

2. QUICK VISION WASURING MACHINE

| | |
|------------------------------------------|----|
| 2.1 An Overview | 24 |
| 2.2 Principle of the 3D Vision in the QV | 25 |
| 2.3 The View Unit | 26 |
| 2.4 The Lighting System | 28 |
| 2.5 The Ability of QV | 30 |

CHAPTER 3

3. QUICK VISION SYSTEM

| | |
|-----------------------------------------|----|
| 3.1 What Is Quick Vision System | 31 |
| 3.2 System Parts in QV Machine | 33 |
| 3.2.1 Block Diagram of System | 33 |
| 3.2.2 External View | 34 |
| 3.2.3 System Connection Diagram | 35 |
| 3.2.4 QUICK VISION Specification | 36 |
| 3.3 An Overview of QVPAK Component | 37 |
| 3.3.1 Mouse Operation | 37 |
| 3.3.2 Keyboard Operation | 37 |
| 3.3.3 The Name of Each Window Component | 38 |
| 3.3.4 Structured Menu Command Group | 39 |
| 3.3.5 Measurement Mode | 42 |

Synopsis

Our investigation or research is focus on one of the latest and high technology of non-contact measuring machine of model QV 250 / QV Ace. It is equipped with a CCD camera adopted non-contact, automatic measurement capability and 3D CNC vision measuring machine that can magnified work piece image and then process it and performed measurement to determine dimension of part feature.

The prime objective is to determine and apply the most suitable and friendly computer program to setup a manual programme for the QV 250. There are two types of computer program that were investigated and decision was made after finding out the most suitable and friendly one. The programme investigated were Power Point 2000 and Quick Basic. Using examples that were written on the QV manual, we found out that Power Point 2000 is more reliable and more friendly to the user. The reason we chose Power Point 2000 is that it comes with different views and can help user to create presentations. It is also a great time saver for any one. It is one of the friendliest programmes and suitable to guide user and it can be use to create fancy presentation on-computer.

Comparing to the touch signal probe base on point input capability of the conventional CMM, QV Ace is more capable of multiple – point or edge input at a time with the aid of CCD camera. This allows measurement to be performed at ten times faster.

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