

FINAL YEAR PROJECT REPORT  
DIPLOMA OF ENGINEERING (MECHANICAL)



FACULTY OF MECHANICAL ENGINEERING  
MARA UNIVERSITY OF TECHNOLOGY  
SHAH ALAM


TOPIC:  
DESIGN OF A PLASTIC INJECTION MOLD (8 CAVITIES)

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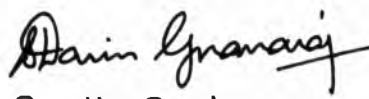
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## ABSTRACT

This project work reports the design work on up-grading a mold die. A 2 cavities mold was up-graded to 8 cavities. This up-grading will increase the efficiency, time for one cycle, production rate and life time of mold.

When the mold is up-graded to 8 cavities it becomes more economical and also will increase the life of the mold die. It is important for production of plastic parts like connector.

This mold die has been designed according to standard design practice. The material for this mold must be considered carefully.

From the assembly of the die detailed part drawings were made. Machining steps in processes such as E. D. M, WIRE CUT, MILLING, GRINDING are given.

To ensure the quality of the mold after up-grading all relevant tests to be carried out are explained.

Tests for the mold flow process to check the pressure drop, and the material flow balance inside the mold are suggested.

<b>CONTENTS</b>	<b>PAGE</b>
ACKNOWLEDGEMENT	i
ABSTRACT	ii
CONTENTS	iii
<b>Chapter 1 INTRODUCTION</b>	
1.0 Introduction	1
1.1.1 Mold	1
1.1.2 Mold Component	2
1.1.3 Mold Description and Terminology	3
1.2.1 Cold-Slug Well	5
1.3.1 Flow Cavity Melt	7
1.4 Mold Temperature	8
1.5 Mold Geometry	8
<b>Chapter 2 MOLD BASICS</b>	
2.0 Introduction	11
2.1 Mold Construction	11
2.1.2 Mold cooling	12
2.2 Basic Principles In Heat Flow	16
2.2.1 Heat Trander by Heat Pipes	24
2.3 Heat balance of halves	25
2.4 Mold Connection	25
2.4.1 Cooling Time	25
2.4.2 Undercuts	26
2.4.3 Mold Shrinkage/Tolerance	28
<b>Chapter 3 MOLD OPERATING PARAMETERS</b>	
3.0 Introduction	30

3.1	Multiple-Cavities Mold	30
3.2	Machine Size	32
3.2.1	Plasticizing Capacity	32
3.2.2	Economic	32
3.3	Clamping Force	33
3.4	Contact Area at Parting Line	36
3.4.1	Sprue, Runner, Gate System	37
3.4.2	Sprues	39
3.4.3	Runner System	41

#### **Chapter 4    *FABRICATION PROCEDURE***

4.0	Introduction	45
4.1	Heat Treating	46
4.1.1	Requirment to be Met Mold Steel	46
4.2	Fabrication of Component	47
4.2.1	Hobbing	49
4.2.2	Cast Cavities	49
4.2.3	Electro-Forming	50
4.2.4	Electric-Discharge Machining	50
4.3	Polishing	52
4.3.1	SPI Finish Numbers	54
4.3.2	Hand Bunching	57
4.3.3	Texture Cavities	59
4.3.4	Patterns of Different Textures	59
4.4	Mold Steels	60
4.4.1	Conditions, Required for Polishing	60
4.4.2	Plating, Coating and Heat-Treating Cavities/Mold	62
4.4.3	Chrome	65
4.4.4	Nitriding and Carburizing	67
4.4.5	Coating Treatments	68
4.4.6	Heat Treatments	70