

PACK CARBURIZING : AN EXPERIMENTAL STUDY OF MILD STEEL
CARBON DIFFUSION ON SURFACE HEAT TREATMENTS

By

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2-1752-033

MASTER DEGREE

In

MASTER OF MECHANICAL ENGINEERING – MANUFACTURING
CONCENTRATION
FACULTY OF ENGINEERING AND INFORMATION TECHNOLOGY



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July 2018

Revision after Thesis Defense on 31 July 2018

STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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ABSTRACT**PACK CARBURIZING : AN EXPERIMENTAL STUDY OF MILD STEEL
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The research of a good material at manufacturing does not end in the invention. There is plenty of research to find a good material. Especially material to improve low cost productivity. There is pack carburizing one way from several kind of material engineering that can improve material performance. Mild steel one of material which use at manufacturing still can be improve to get a great function through carburizing. One condition to get into that mild steel must pass a heat treatment process called pack carburizing. At this study material has been taken to several different condition to get a good material and good performances. The different temperature and different kind of carbon energizer has been use for this process. This is to get a great hardness which can be used to increase the functionality of mild steel.

Keywords: Heat treatment, Carburizing, Pack carburizing, Carbon diffusion



DEDICATION

I dedicate this work for my beloved family.

To Levin.

To Arcel

To ATMI Cikarang

To Indonesia.

To all of you who help me to create this writing.



ACKNOWLEDGEMENTS

I am grateful to the God for the good health and wellbeing that were necessary to complete this book. I place on record, my sincere thank you to Mr. Irvan S. Kartawiria as Dean of the Faculty, for the continuous encouragement. I am also grateful to Mr. Ary Syahriar as my advisor and Mr. Gembong Baskoro as my co-advisor. I am extremely thankful and indebted to him for sharing expertise, and sincere and valuable guidance and encouragement extended to me. I take this opportunity to express gratitude to all of the Department faculty members for their help and support. I also thank my family for the encouragement, support, and attention. I am also grateful to my partner who supported me through this venture. I also place on record, my sense of gratitude to one and all, who directly or indirectly, have lent their hand in this venture.

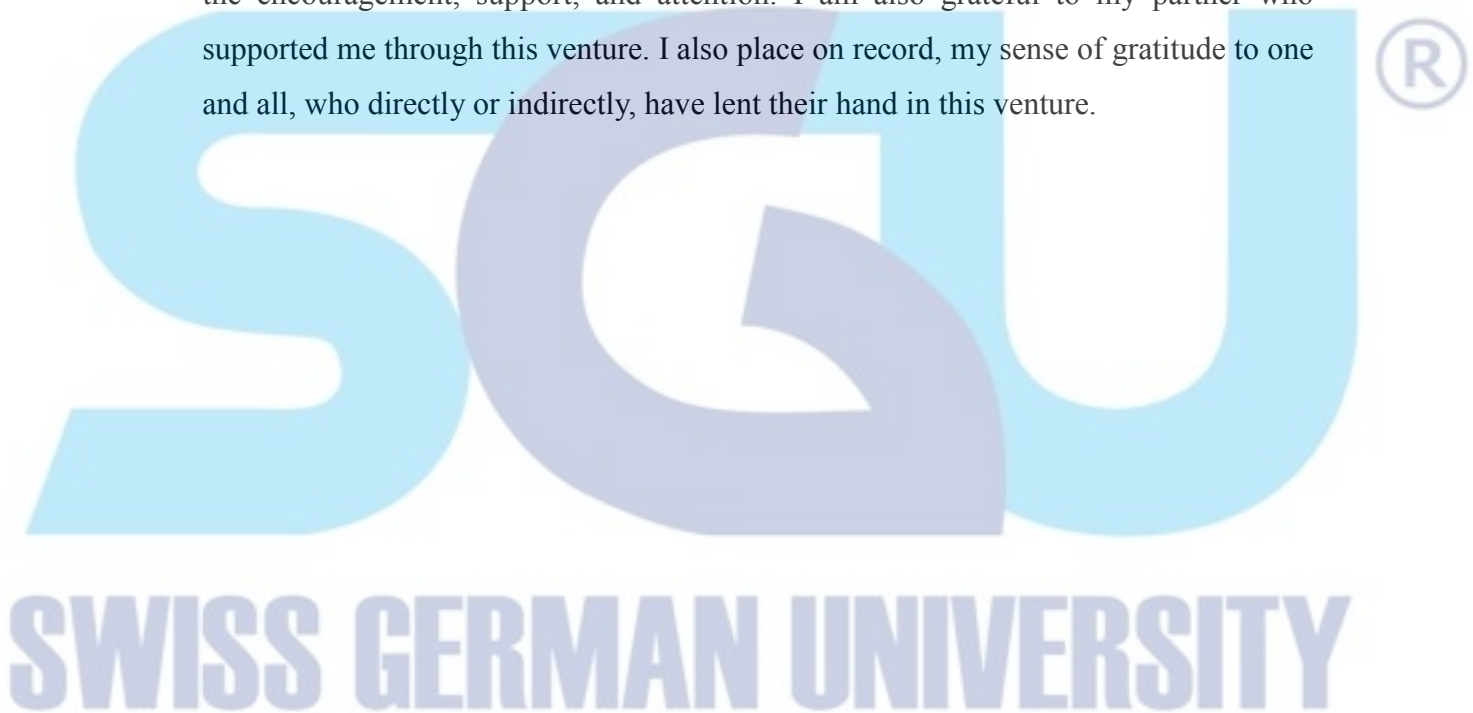


TABLE OF CONTENTS

STATEMENT BY THE AUTHOR.....	2
ABSTRACT.....	3
COPYRIGHT.....	4
DEDICATION.....	5
ACKNOWLEDGEMENTS.....	6
TABLE OF CONTENTS.....	7
LIST OF FIGURES.....	10
CHAPTER I – INTRODUCTION.....	14
1.1 Background.....	14
1.2 Research Problem.....	16
1.3 Research Objectives.....	17
1.4 Significance of Study.....	17
1.5 Research Questions.....	17
1.6 Hypothesis.....	17
CHAPTER II – LITERATURE REVIEW.....	18
2.1 Heat Treatment.....	18
2.2 Type Of Heat Treatment.....	19
2.2.1 Full hardening.....	19
2.2.2 Surface Hardening.....	19
2.3 Carburizing.....	19
2.3.1 Pack Carburizing.....	19
2.3.2 Liquid Carburizing.....	20
2.3.3 Gas Carburizing.....	20

2.4	Energizer	20
2.5	Previous study	22
2.5.1	Case hardening of mild steel using cow bone as energizer.	22
2.5.2	Pack Carburization of Mild Steel, using Pulverized Bone as Carburizer : Optimizing Process Parameters.	23
2.5.3	The Effect of Holding Time on the Hardness of Case Hardened Mild Steel.	24
2.5.4	Comparison of Study	26
CHAPTER III – RESEARCH METHOD		27
3.1.	Venue and Time	27
3.2.	Materials and Equipment	27
3.2.1	Materials	27
3.2.2	Equipment	27
3.3.	Design of Experiments	31
3.4.	Experimental Procedure	33
3.4.1.	Carburizing process use slag welding and Na_2CO_3	33
3.4.2.	Testing material with hardness tester.....	33
3.4.3.	Analysis.....	33
3.4.4.	Validation of the parameter.....	34
CHAPTER IV – RESULT AND DISCUSSION.....		35
4.1.	Result of carburizing experiment use CaCO_3	35
4.2.	Result of Carburizing Experiment use Na_2CO_3	39
4.2.1.	Carburizing result at 850 °C.....	39
4.2.1.	Carburizing result at 950 °C.....	40
4.2.2.	Carburizing result at 1050 °C.....	41

CHAPTER V – CONCLUSION AND RECOMENDATION	42
5.1. Conclusion.....	42
5.2. Recommendation.....	42
REFERENCES	43
GLOSSARY	44
APPENDIX.....	45
CURICULLUM VITAE	61

