

THESIS

Optimization Compressed Air Machine 75 kW To Reducing Production Delay
Process

By

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22352006

MASTER'S DEGREE
in

MECHATRONIC
FACULTY OF MECHANICAL ENGINEERING



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July, 2024

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

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This study tackles the problem of maximizing compressor and dryer performance to boost output and productivity while still satisfying corporate electrical energy efficiency requirements. Inefficiencies resulting from the manual operation of the compressor and dryer during production and rest hours are revealed by analysis, which includes data and bar charts. These inefficiencies cause unnecessary energy waste during times of full air pressure or repose, as well as air supply interference on manufacturing machinery. Performance improvement is also necessary because of factors such as book value of asset and asset value depreciation. To solve these problems and improve the machines' overall performance, improvements have been made.

Keywords: Compressed Air System, Air Dryer, Energy Saving

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DEDICATION

This thesis is the dedication to all people who always pray, and give support in finishing this thesis. I would like to dedicate this thesis to:

1. Allah SWT Lord of the world, who has given the writer his blessing and chance to finish this thesis.
2. My beloved Wife, Amelia Agnes, who always understand of my condition.
3. My beloved Son, Aldevaro Aulady Amar Hidayat and Aldrich Annaraghi Hidayat, who make me new spirit to finish this thesis.
4. My beloved parents, Mr. Suparman Hidayat and (alm) Mrs. Siti Patonah , who always support, educate, accompany and pray to form me since I was a child until now.
5. My parents' and my in-laws' large, cherished family, who constantly look out for me and offer guidance and support.
6. My cherished institution, Swiss German University, which has made significant contributions to my growth.

ACKNOWLEDGEMENTS

In the name of Allah SWT, the Most Beneficent and Merciful. Praised be to Allah SWT. Lord of the world, who has given the writer his blessing and chance to finish this thesis entitled “Optimization Compressed Air Machine 75 kW To Reducing Production Delay Process”. This thesis is a researcher as one requirement of master degree of mechanical engineering.

Education Study Program of Swiss German University.

The researcher realizes that I would never finish writing this thesis without the help of some people around me. Therefore, I would like to say a lot of thanks to:

1. Assoc. Prof. Dr. Ir. Henry Nasution, S.T., M.T., M. Sc, as the advisor this thesis and lecture of programming & mechatronic course of Swiss German University.
2. Dena Hendriana B.Sc. S.M. Sc.D. the chairperson of the Mechanical Engineering Study Program and my Co. Advisor.
3. Dr. Ir. Hanny J. Berchmans M.T. M.Sc as lecture of PLC & Robotic course of Swiss German University.
4. Dr. Ir. Gembong Baskoro M. Sc. IPU as lecture of Techno preunership course of Swiss German University
5. Edi Sofyan B. Eng., M. Eng., Ph. D as lecture of Digital Signal Processing of Swiss German University.
6. Dr. Ir. Widi Setiawan as lecture of Real Time System course of Swiss German University.
7. All of my beloved friends, especially Alfred Ang, Amanu Pramono, Muamar Fadlil, Sugeng Yulianto and Yo Panjikhrisna Widirga for their support, help, kindness, and for being such a great companion along the way in finish this thesis

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