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Prabowo Larasakti ; Muhammad Hidayat ; A. Mada Jimmy Fonda ; Lin Prasetyani **All Authors**

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Abstract

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IV. Result and Discussion

V. Conclusion

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Abstract:

The conduction of this experiment in an automotive company that manufactures brake systems for cars and motorcycles. The products produced by the company go through various processes, one of these is the painting process. Products enter the specific painting process and place on a hanger. So, if the hanger has gone through several cycles, the paint dries and accumulates. This repetition process on the hanger can cause damage to the product that is processed to become Not Good (NG). This problem condition needs a system that can monitor the hanger position on the conveyor in realtime and indicates replacing hangers with piles of paint into a new one, clean hanger. The control system built uses the KEYENCE IV HG-500MA camera sensor, Mitsubishi Q03UDECPU PLC as the control center, and KEYENCE KV7500 to connect between the cameras, MELSOFT MC Works64 SCADA software, and the MS SQL Server database. The author discusses a SCADA system built into the entire hanger management control system in this paper. The Application MELSOFT MC Works communicates with control systems, cameras, and databases in the system collaboration also described. This collaboration includes monitoring and sending hanger position information to the database by detecting abnormal conditions, for example piles of paint on a hanger. The results of this SCADA real-time positioning and cycling of the hanger to reduce damage or NG and rework on the products.

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MODIFIKASI KONTROL HARD WIRE MESIN ODF MENJADI SOFT WIRE DENGAN BASIS PLC DI PERUSAHAAN OTOMOTIF

Lin Prasetyani

Mekatronika, Politeknik Astra

Anhary Azhar Podungge

Mekatronika, Politeknik Astra

Syahril Ardi

Mekatronika, Politeknik Astra

Mada Jimmy

Mekatronika, Politeknik Astra

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ABSTRACT

Out Diameter finished (ODF) adalah sebuah mesin yang dipergunakan pada permesinan salah satu komponen otomotif yaitu piston. Mesin ODF yang dimiliki oleh perusahaan ini digunakan pada berbagai line produksi piston yang berbeda merek dan jenisnya. Setiap mesin ODF memiliki karakteristik yang berbeda – beda. Pada line no.35 penulis terdapat sebuah mesin yang masih menggunakan relay (hard wire) sebagai system kontrolnya hal ini menjadi kendala besar ketika tim maintenance akan melakukan perbaikan. Pihak maintenance harus melakukan pengecekan wiring satu persatu. Penggantian sistem kontrol menjadi soft wire berbasis PLC diharapkan dapat memudahkan tim maintenance melakukan perbaikan pada mesin. Selain itu sebagai bahan improvement pada mesin ini akan ditambahkan actuator motor berbasis Variable Frequency Differential (VFD) yang diatur dan dimonitor pergerakannya melalui Human Machine Interface (HMI). Monitoring melalui HMI diharapkan dapat menjadi pemantauan terhadap running hour mesin sehingga tim maintenance dapat melakukan penjadwalan preventive maintenance yang terjadwal dengan baik

AUTHOR BIOGRAPHIES

Lin Prasetyani, Mekatronika, Politeknik Astra

Anhary Azhar Podungge, Mekatronika, Politeknik Astra

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