MONITORING PRESS MACHINE AUTOBODY MANUFACTURE INDUSTRY USING PLC

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Abstract
At this time the process of monitoring the work of the press machine is still done manually, whereby the operator of the press machines that make daily work reports. However, in practice press machine operator in making the report inaccurate data in the write daily reports, this is possible because the conditions are less conducive working environment. Because of lack of accurate data than this provider of enterprise management quality control difficulties in determining the production capacity of a press machine but if it obtained a maximum production capacity of a press machine then the company can maximize existing resources.

To overcome these two created a system that can monitor the work of the press machine using a PLC. Proximity switches its not detecting any plate that is placed over the mold, when the push button is pressed solenoid valve pneumatic cylinder is activated and will go down so that the process occurs pengepressan plate detected by reed switch, after 5 seconds then the pneumatic cylinder will go up automatically. All activities or processes are controlled and stored in memory by a PLC with ladder diagrams. Stored data accessed by the OPC through a PC so the operator can retrieve data from the working press machine.

Final results from this is to detect the occurrence of pressed aluminum plate by using a sensor, data stored in PLC memory is accessed via the OPC and then display on your PC with Microsoft Office Excel so it was shaped like a daily report.

Keywords: Monitoring, Quality Control, Machine Press, Autobody Manufactur, PLC.
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