

AUTOMATIC TEXTILE SCREENPRINTING MACHINE

**SYED OVAIS MAROOF
ZIA-UR-REHMAN
MUHAMMAD JASIM SUHAIL
SAUD AHMED SIDDIQUI**

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ABSTRACT

Rapidly developing technology of advanced printing opens new open doors on varied markets. one amongst them is that the advantage from screen printing methods. The objective of this project is to develop an automatic machine that is easy-to-use. the automated Textile Screen machine could be a small easy-to-use automatic screen press designed to extend profits, dramatically increase production, offer bigger print consistency, minimize the physical stress of manually printing - all whereas being extraordinarily safe-to use, straightforward to set-up, with least maintenance.

This project utilizes Programmable rationale controller (PLC) that uses in its system electronic operations. It's basic storing procedures, convenient amplifying standards, elements of consecutive/position control, planned timing and input/output controlling are wide connected to the field of business robotization control. Delta's DVP 32ES PLC is utilized, which give fast, stable and to a great degree reliable applications on the whole styles of modern robotization machines. Also, to intelligent logical operation, abundant instructions and various work cards, the proficient DVP-PLC moreover underpins various correspondence conventions, associating Delta's human machine interface through the industrial system into an entire "Delta Solution" for all clients. Any surface that may be written on and stretched may be a surface for screen printing machine. Ink used may be oil paint, water primarily based colour etc.

In this project WPS programming software is employed, integrating the most functions that embody control process programming, hardware configuration, network configuration, and providing convenient wizards and a graphical interface for these functions. Additionally, users of WPS computer code will select their best

programming tools from Ladder Diagram (LD), sequential function Chart (SFC), function block diagram (FBD), Structured Text (ST), Instruction List (IL).

Chapter 1 serves as an introduction to screen printing and the fundamentals of this project throughout this report.

Chapter 2 is a review chapter, separated into two main sections. It details about the components used and the fundamentals.

The studies described in Chapter 3 focuses on the design, the methodology and the equations used.

Chapter 4 serves as the implementation of the all the components of automatic textile screen printing machine.

Chapter 5 discusses the results achieved and the limitations faced in this project after implementation.

Conclusion and recommendations for future development are included in chapter 6.

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