PLC SOLUTIONS
Bottle Opener
By: PLC Solutions
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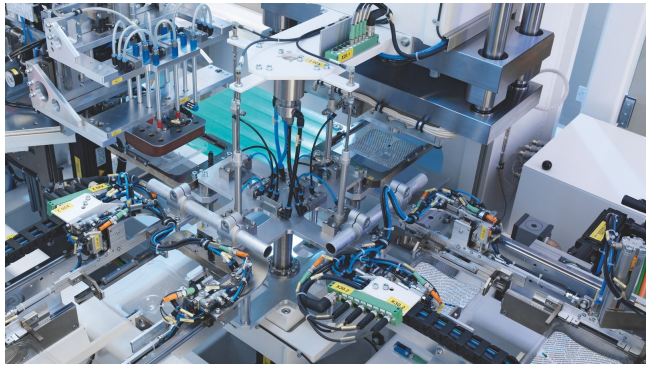
ABOUT US

PLC SOLUTIONS



BEST BUY · Orioles · Heinz · FedEx Corporation · Oral-B · TACO BELL

Gulf · Coca-Cola · monster.com · Ford · ANDROID · DUNKIN' DONUTS

Little Mexican Soda

PLC SOLUTIONS

- Dedicated to the production of soda.
- Needs to increase its production.
- Has 35 employees:
  - **5** product design experts.
  - **4** administration and marketing.
  - **26 production line.**

OUR OBJECTIVES

PLC SOLUTIONS

Provide a highly effective solution - failproof

Increase your profits exponentially

Reduce the amount of work - responsibilities

THE PRODUCT

PLC SOLUTIONS

OPERATION MODES

- **Automatic**
  - Worker Graphical Interface
  - Office Graphical Interface
- **Manual**
  - Selective (Independent actuators)

CONNECTIVITY

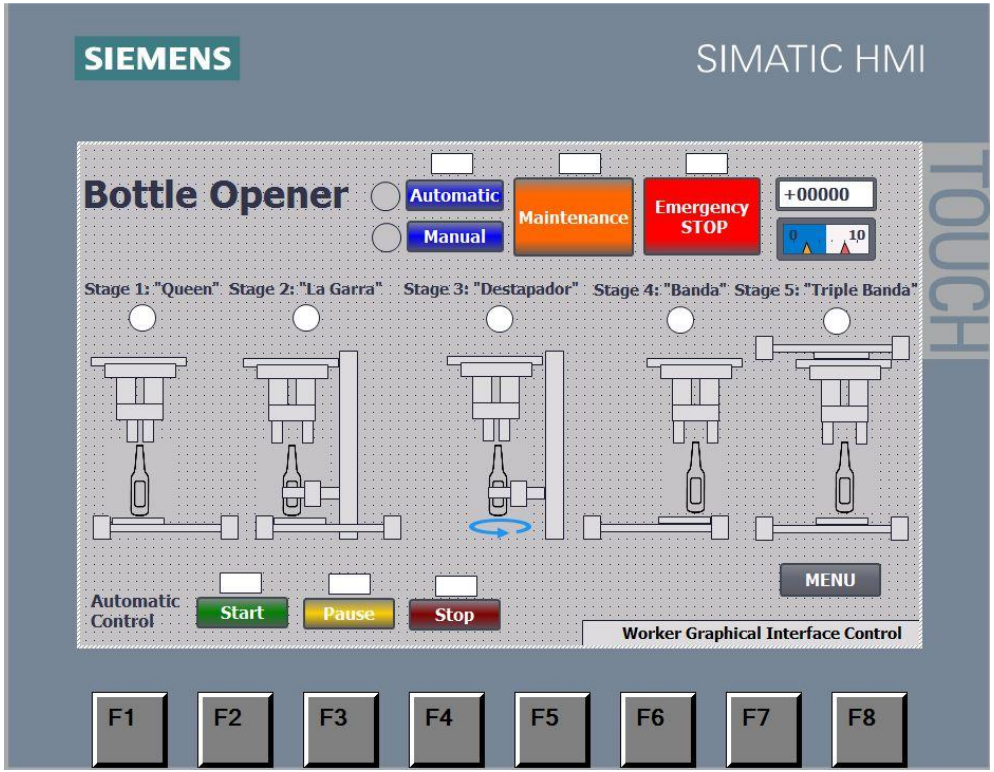
- **Cellphone**
  - You can also control the process with your phone!

USER FRIENDLY

- **Great Graphical Interface**
- **Total Control**

GRAPHICAL INTERFACES

PLC SOLUTIONS



Worker Graphical Interface

- Shows a real time animation of the process.
- Can switch from “Manual” to “Automatic”.
- Can switch from “Automatic” to “Manual”.
- It can start and stop the process.
- Can perform maintenance.
- Has an emergency stop.

WORKER INTERFACE

GRAPHICAL INTERFACES

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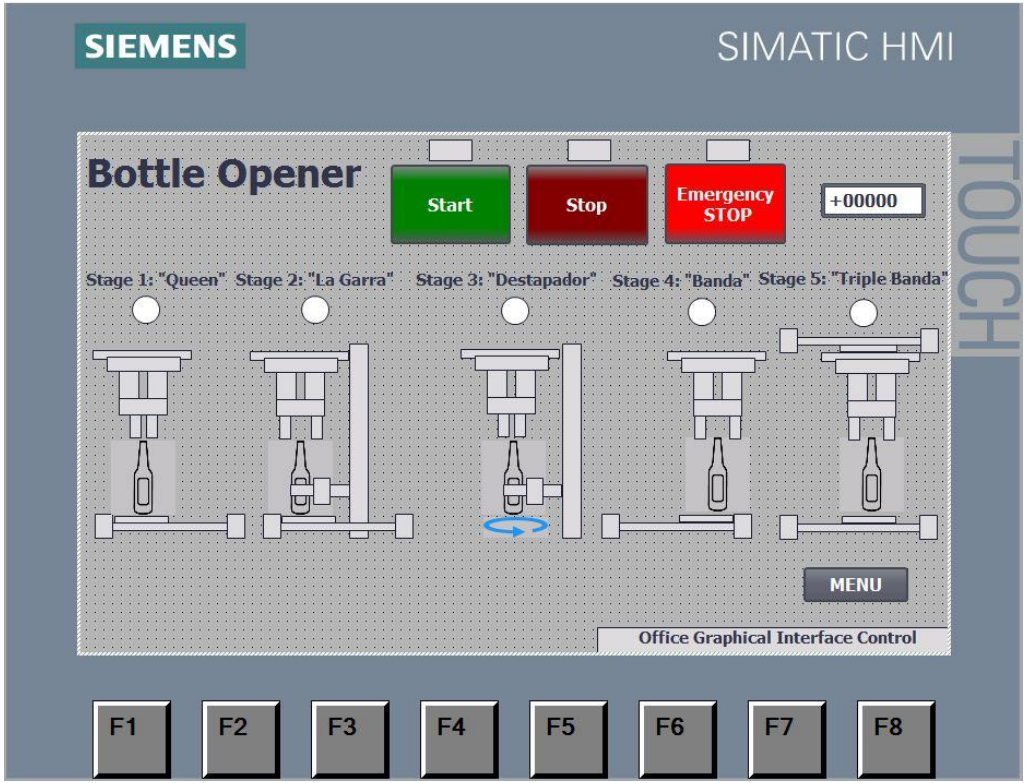

OFFICE INTERFACE

OFFICE GRAPHICAL INTERFACE

- Displays an animation of the process in Real Time.
- It can start and stop the process.
- Shows the quantity of bottles produced.
- Has an emergency stop.

GRAPHICAL INTERFACES

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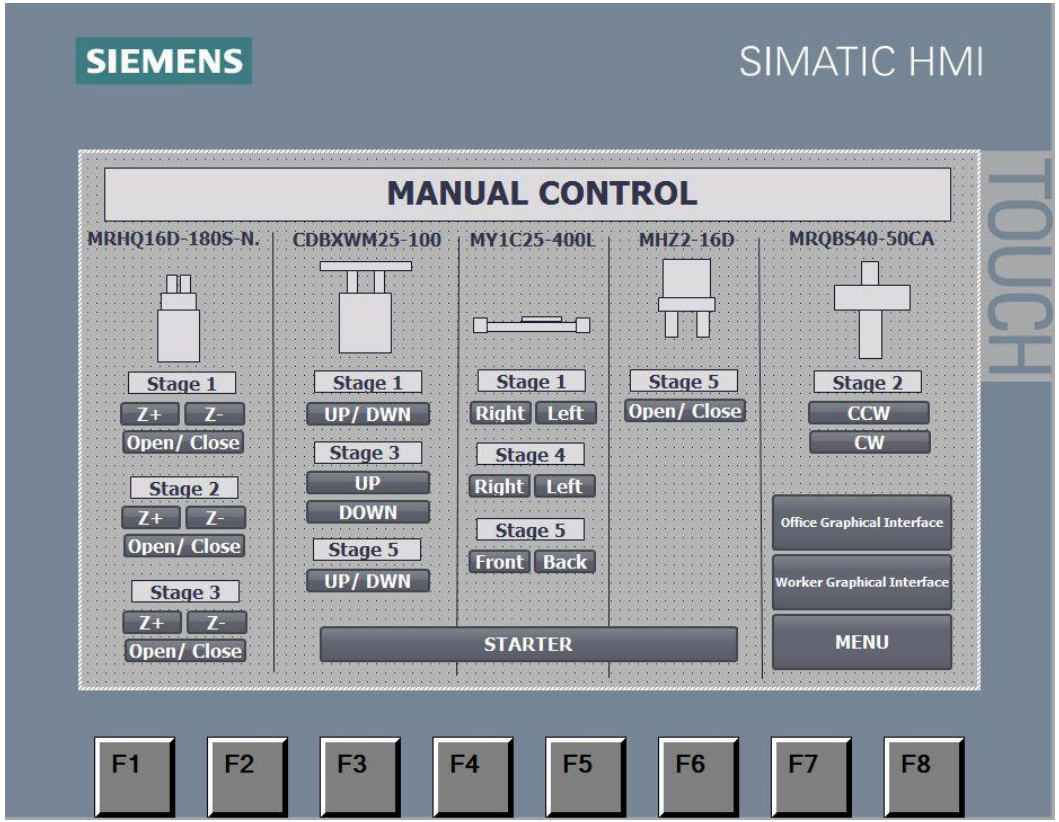

MANUAL CONTROL INTERFACE

MANUAL CONTROL INTERFACE

- Displays an animation of the process.
- It can activate any actuator of the system.

GRAPHICAL INTERFACES

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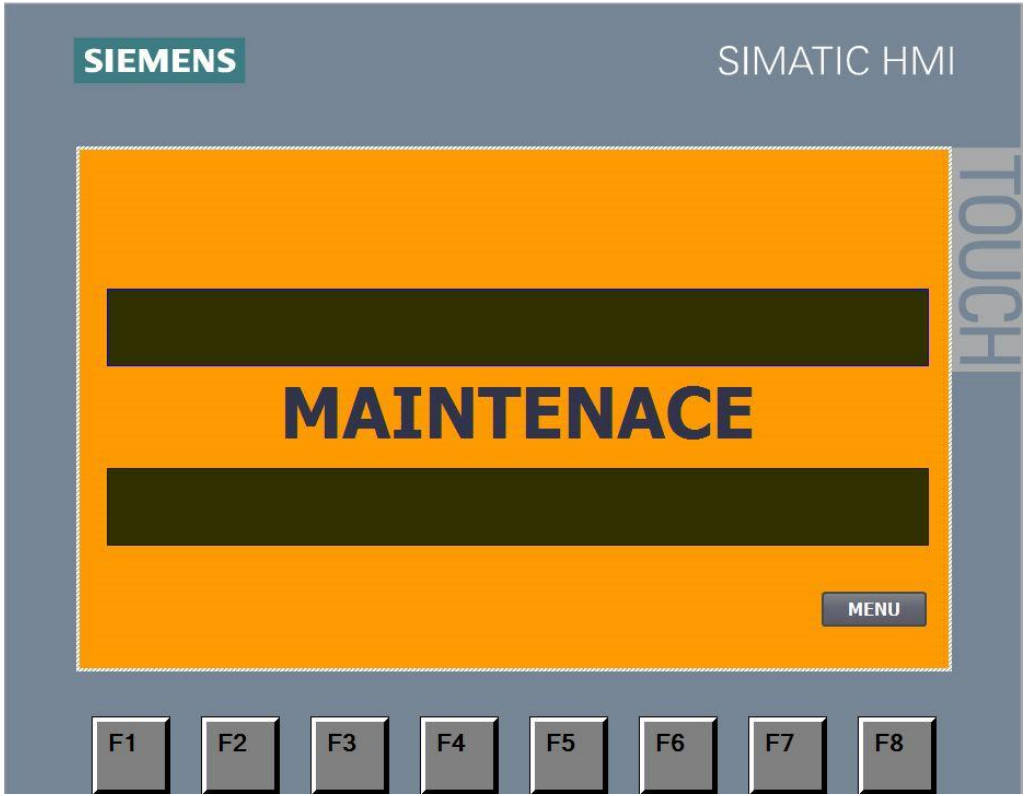


MAINTENANCE INTERFACE

MAINTENANCE INTERFACE

- Resets the bottle counter

ETHICS CASE

PLC SOLUTIONS

- A healthy economy in the company is much more important to help/ hire more workers in the future (utilitarianism).
- We can recommend the workers with some of the companies that we have worked with.
- A part of the workers can be trained to maintain and update the PLC system

Final reflection

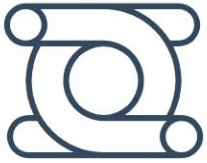
PLC SOLUTIONS

This project represented a big challenge for the whole team, the main hardship was the set of required specific knowledge that was necessary for us to apply in union with the theoretical background we obtained from the Industrial Networks class and project.

Also, something very important to highlight is the organization and teamwork it required.

We are very happy with our job throughout the last few months to complete this project and also with the final result.

References



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