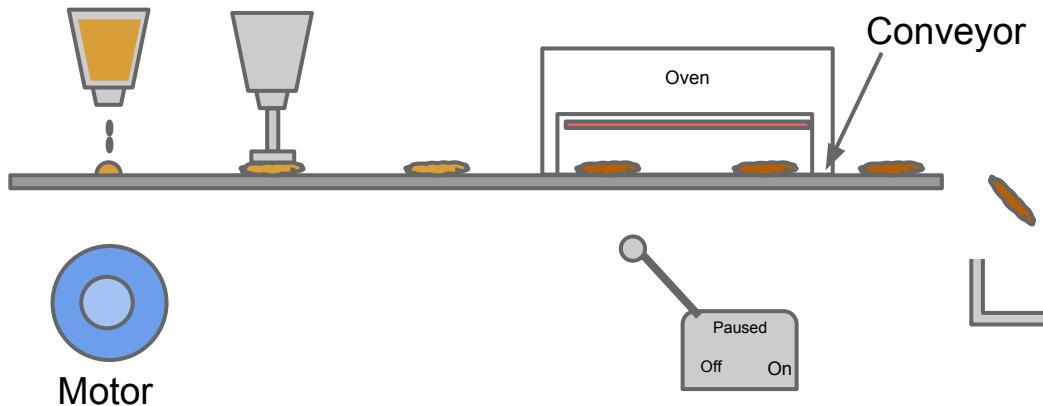


The Biscuit Machine

Extruder Stamper



Requirements:

Design a system to control the Biscuit Machine to the following specification:

- When switched on, the machine must wait for the oven to warm up before starting the conveyor belt.
- Biscuits must be cooked at a temperature of 220 - 240°C (the oven will overheat if the heating element is on all the time).
- If the operator selects "Pause", all movement must be stopped immediately but the oven should be kept heated.
- When "Off" is selected, the machine should be shut down leaving nothing on the conveyor belt.

Device	Inputs	Outputs
Switch	None	On / Off / Pause
Motor	On/Off	One "pulse" per revolution
Extruder	Pulse	None
Stamper	Pulse	None
Oven	Heating Element On/Off	Temperature