SUMMARY

Industry

Production Monitoring System for Vials & Ampoules.

Challenge

Monitor production quantity of vials & ampoules, monitor waste using intelligent recycle bin.

Solution

Microcontroller is used to monitor, production & wastage using retro fitment of capacitive sensors, infra-red sensors.

Results

- Increase the scalability of production.
- Improve asset utilization.
- Automate the process of monitoring production line.

Benefits

- Production floor gets IoT enabled.
- Data security on cloud.
- Production, machine maintenance can be plan.
- Automatic report generation

IIoT enabled Vail & Ampoule manufacturing plant

Production monitoring systems playing vital roles in manufacturing industries. These systems are useful to reduce the human efforts & provide analytics to manage the maintenance & production.

Vail & Ampoule Manufacturing Unit

Vials & ampoules are used in medical industries to fills the vaccine. Microcontroller based solution is used to monitor the production. Capacitive & IR sensors are used to monitor the production.

Intelligent recycle bin embedded with IR sensor is used to monitor wastage or discarded vials while manufacturing.

Energy meter is use to monitor the electricity consumption of every machine available on floor. Using power factor the lifecycle of motor can be monitor. Using this data we can future plan for the maintenance of the machine.

Oxygen & LPG used for vials cutting is monitor using LPG meter & oxygen sensor.

Contact Us

Web Site
https://www.grandes-mentes.com/

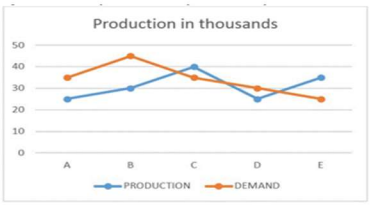
Contact No
7774940375

Address
17, Aarambh, 4th floor, Beside Datta Mandir, Wakad, Pune-411057

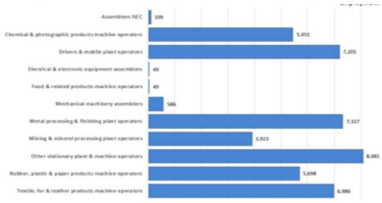
Analytics

All the data shared by microcontroller using Wi-Fi or Ethernet is visible on platform. Production count, wastage, electricity consumption is visible in different charts with proper date & time. By using this data & analytics we can plan the future production. We will able to identify the wastage of material. Energy meter data is used to calculate the electricity. Also we can monitor the ideal time of machine for which machine was not in production. We can plan the machine maintenance using energy meter data. Machine Operator person efficiency, machine efficiency can be identified using the analytics. All the data can be available in excel or pdf file for record purpose. Various reports are generated using the available data.

Production Vs Demand

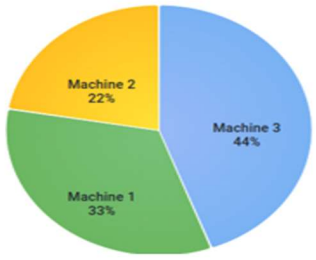


Operator Vs Production

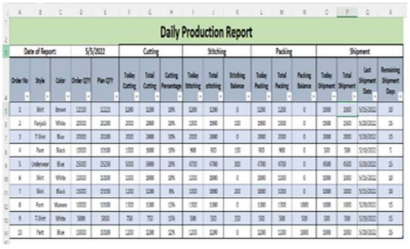


Machine Vs Machine Production

Percentage of pieces produced per machine



Production Reports per Month



We build robust, end-to-end IoT products & solutions for our clients. Our solutions are custom-made, cost effective & highly scalable.