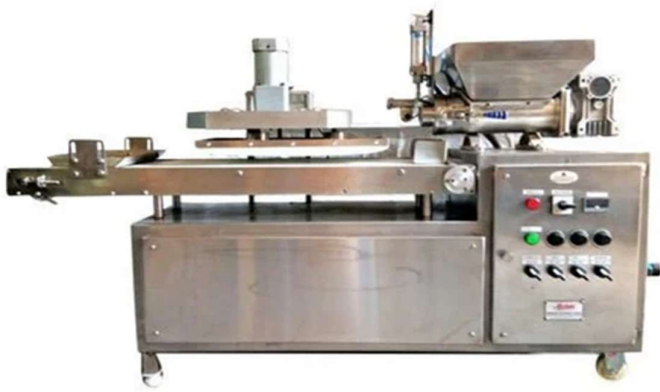


Production Monitoring System for Pedhas & Mithai manufacturing Industries



SUMMARY

Industry

Production Monitoring System for Pedhas.

Challenge

Monitor production quantity of different Pedhas, wastage of Pedha while production, machine health, machine efficiency & operator efficiency.

Solution

Using microcontroller, capacitive sensor, energy meter & cloud based platform parameters related to production, machine efficiency, operator efficiency is monitored.

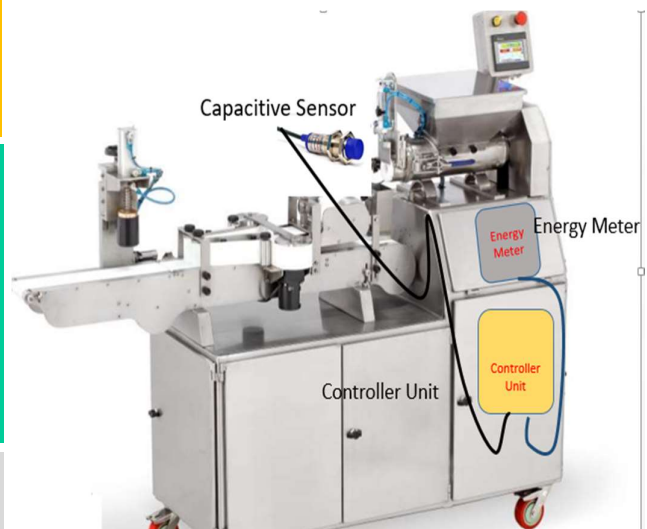
Results

- Our solution can enhance efficiency of the production
- Increase the visibility of maintenance, production plan.
- Asset utilization monitoring

Benefits

- We can monitor production & wastage.
- Machine health is monitored.
- Production & machine maintenance can be planned.
- All the data will be available on cloud.
- Various reports can be generated.

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



Pedha Making Machine

We can monitor production by mounting capacitive sensor on machine. Energy meter is mounted on machine to monitor machine health.

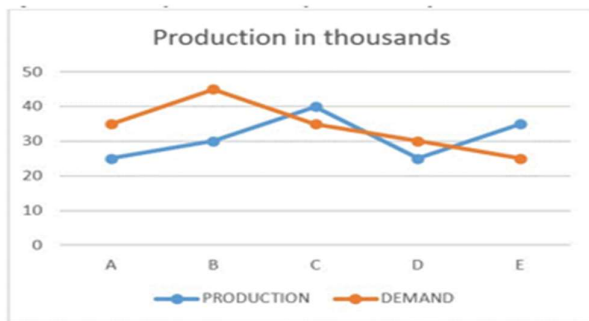
Using gateway device we can send production information, machine health to cloud. Using analytics on cloud we can calculate the future production rate, operator efficiency, create master data & various report in excel or pdf formats etc.

Analytics

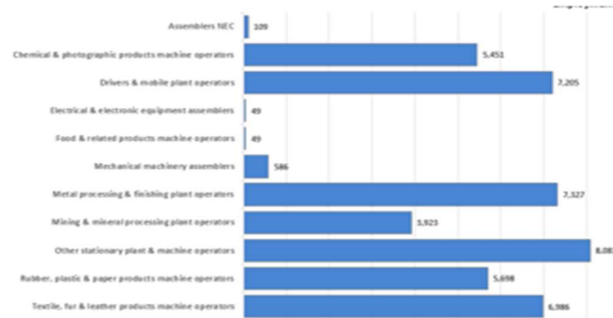
All the data shared by microcontroller using Wi-Fi or Ethernet is visible on platform. Production count, wastage, electricity consumption is visible in different charts with proper date & time. By using this data & analytics we can plan the future production. We will be able to identify the wastage of 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.

Rollout of System is quick and easy and can be used in conjunction with existing systems.

Production Vs Demand

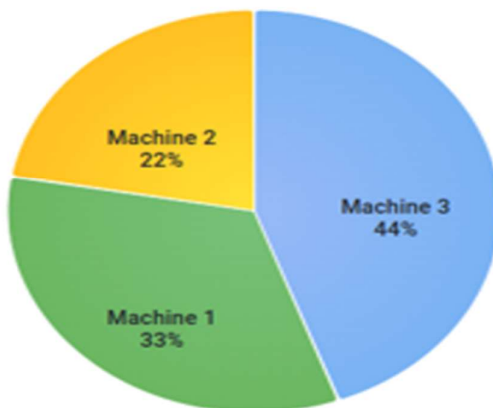


Operator Vs Production



Machine Vs Machine Production Production Reports per Month

Percentage of pieces produced per machine



Daily Production Report																	
Date of Report:		5/5/2022		Cutting			Stitching			Packing			Shipment				
Order No	Style	Color	Order Qty	Plan Qty	Today Cutting	Total Cutting	Cutting Percentage	Today Stitching	Total stitching	Stitching Balance	Today Packing	Total Packing	Packing Balance	Today Shipment	Total Shipment	Last Shipment Date	Remaining Shipment Qty
1	Sleeve	Green	2200	2200	1200	1200	55%	1200	1200	0	1200	1200	0	1200	1200	5/5/2022	0
2	Collar	White	2000	2000	2000	2000	100%	1000	1000	1000	1000	1000	0	1000	1000	5/20/2022	0
3	T-shirt	Blue	2000	2000	2000	2000	100%	2000	2000	0	2000	2000	0	2000	2000	5/20/2022	0
4	Shirt	Black	1000	1000	1000	1000	100%	900	900	100	900	900	100	900	900	5/10/2022	100
5	Undershirt	Blue	2500	2500	500	5000	20%	4700	4700	300	4700	4700	0	4000	4000	5/20/2022	500
6	Sleeve	White	1000	1000	1000	1000	100%	1000	1000	0	1000	1000	0	1000	1000	5/5/2022	0
7	Sleeve	Black	1000	1000	1000	1000	100%	1000	1000	0	1000	1000	0	1000	1000	5/5/2022	0
8	Shirt	Maroon	1000	1000	1000	1000	100%	1000	1000	0	1000	1000	0	1000	1000	5/20/2022	0
9	T-shirt	White	500	500	500	500	100%	500	500	0	500	500	0	500	500	5/20/2022	0
10	Shirt	Blue	1000	1000	1000	1000	100%	1000	1000	0	1000	1000	0	1000	1000	5/20/2022	0



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