

5 major challenges in production unit that a smart factory solution can help you to overcome.

The world is changing dramatically today. The desire to take business to a new level drives the will of entrepreneurs. To get a better result and generate more profit, businessmen are investing tremendously in technologies to enhance the manufacturing processes. They are having state of the art machinery that can accomplish a task in few hours, which initially would take a couple of days to finish. However, the essential data that make these machineries work efficiently has to be taken down manually on paper.

Because of these manual processes, the job on the production unit may deviate from the accuracy it was supposed to maintain. In this technology driven world, why not use the benefits and advantages the latest technologies provide. One such solution that can drive better results from your production units is a smart factory solution.

To give you a brief idea about the benefits you can get from a smart factory allow us to show how you can get over certain challenges you might be facing in your factory.

Challenge 1 – Dearth of real-time information (drop down buttons)

There are many industries that have improper infrastructure or tools to monitor the complete production unit from a central location due to Lack of communication and transferring of information to the respective Authorities.

Solution

Whether one needs currently running job information, periodic report updates or data to monitor operation of the production unit, having a system that can exclusively perform all these tasks is always a plus for the factory. Smart factory offers the supervisor real-time, continuous and standardized task level data to provide the detailed analysis performance of the factory. With a better knowledge of their production units, supervisors can easily make out the problematic areas and make accurate decisions to meet the dynamic demands of their production units beyond automation.

Challenge 2 – Unbalanced workload at the stations (drop down buttons)

In case any of your station is underutilized or over utilized, there are possibilities that you may encounter bottlenecks and efficiency issues. The toggle of production unit between balanced and unbalanced utilization can be the result of manual intervention in task assigning and setting the timing standards. These standards and interventions may or may not reflect the precise time consumption at a particular station causing a delay in development of the final product.

Solution

The quality control, data collection and statistical analysis functionalities of a smart factory solution are compatible with almost any type of station in a production unit. This solution offers the advantage of monitoring the average time required to accomplish any interconnected jobs. This in turn allows supervisors to have more precise time estimates to appropriately balance the production unit.

Challenge 3 – Extended changeover time (drop down buttons)

There might be instances when you might be thinking that you need a solution for a quicker production unit changeover. However, you might be skipping this idea because of the cost and time involved in conducting a changeover process. It is needless to say that the process will affect the production in your factory.

Solution

A smart factory solution offers rich insights that can be used to monitor the production unit phase by phase. In case of a changeover, the smart factory solution can help in identifying the station that is to be changed or replaced. This precise information helps you to cut the lengthy change over time in half.

Challenge 4 – Production cycle time (drop down buttons)

The lack of proper information and data of your production unit or unrealistic insights may lead to unnecessary buffers. These buffers may negatively affect a business' bottom line. It looks like the manufacturing industry is set to see some evolutionary changes with connected factory, offices, supply chain, etc.

Solution

A smart factory solution allows you to monitor the cycle time; non-confronting product related tasks and production lead time. This allows you to have real-time data which in turn allows you to make out the station where unnecessary production is occurring. The overall process offers the supervisor access to the data which may help them reduce or eliminate the issue causing the loss of asset and time.

Challenge 5 – Production quality (drop down buttons)

In order to be in the business and generate more profit, the quality of the final product matters big time. However, with the absence of a proper platform, identifying stations or locations where the quality issues are being generated may become quite chaotic. Once the faulty station is identified, figuring out the reason for the quality difference is a different ball game altogether.

Solution

A smart factory solution provides a diverse spectrum of information from station to station in a production unit. This allows users to monitor every station thoroughly from a remote location. With the help of insights delivered by a smart factory solution, a factory can maintain the quality standards.

Kirti Telnet understands the importance of the insights required to monitor, analyze and most importantly to generate the desired profit from your factory. To help you overcome the above mentioned challenges and situations similar to them, the Ahmedabad based company presents its Smart Factory solution.

With Kirti Telnet Smart Factory solution you get accurate solution for your production unit which in turn can help you in taking your business to a new level.

“By 2025, the total global worth of IoT technology is estimated to be USD 6.2 trillion — most of which will be from devices in healthcare and second most in manufacturing (USD 2.3 trillion).”– CMO, Intel