

Providing a new dimension to process trending

OEE IMPACT Connect's Process Trending Module will give you a unique insight in to the way your manufacturing process actually works, and how that affects the quality of your products, the life of your machines and the cost of your operation.

You can gain a significant advantage over your competition by using this module to analyse your processes and make changes that will have a real impact on your customer satisfaction and your bottom line.

OEE IMPACT Connect software provides you with a wealth of tools and information to drive and support your lean manufacturing and OEE activities.

The addition of this new process viewer/trending tool provides a whole new dimension to process trending, with powerful and flexible real-time and historical reporting.

What does it do?

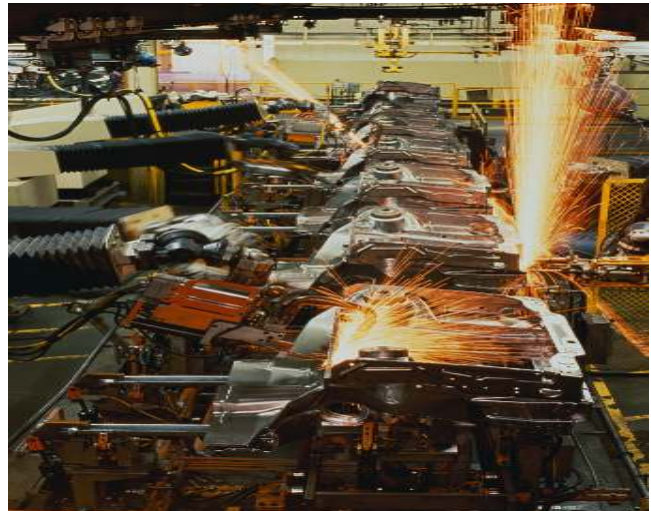
Most manufacturing processes will have a key set of parameters that directly affect the quality of the finished product, for instance:

- ◆ **Temperature of ovens**
- ◆ **Torque measurement on assembly machines**
- ◆ **Cutting speeds**
- ◆ **Moulding pressure**
- ◆ **Flow rates of lubricants**
- ◆ **Vibration and acoustic measurements to predict machine failure**

Understanding variation in these parameters and the effect of that variation on your production process is a vital tool in improving product quality and lowering production costs.

Plot data against reference points

The OEE IMPACT Process Viewer allows you to record data against a number of reference points, such as time, shift, product run, date etc. In many batch processes, there are critical stages that the product goes through, requiring conformance to a set profile to maintain quality of the product. The Process Viewer gives you the ability to configure a profile and then plot data against it to highlight variation.



Viewing real-time and historical data

The template wizard allows you to create your own graphs for displaying data, and provides an extensive range of interactive tools for analysis purposes. The sophisticated viewing tool allows you to pan along axes, zoom in on an area of data on the graph, apply multiple pen plots to the same chart etc,

View historical or live data, or a combination of the two on one chart.

Data can be logged at set intervals for continuous processes or could be triggered by an external event. To optimise storage space we are also able to log data only when a parameter that should remain constant actually changes.

How could I use it?

Use the Process Trending Module in a variety of ways to lower production costs, reject levels and downtime, and increase customer satisfaction and profit:

Predictive Maintenance

Predictive maintenance is a methodology that can help you to reduce or eliminate unplanned downtime in your plant. By recording machine parameters such as vibration or acoustic levels, you will be able to predict when a machine is in need of attention prior to a major failure occurring. The Process Trending Module will allow you to have a clear and concise view of this data and associated trending information will alert you to problems before they occur.

Product Quality

Out-of-tolerance parameters in your manufacturing process can significantly contribute to scrap and rework levels.



The calculation of OEE ignores the effect of process variables on the throughput and quality of product. Combining OEE with process trending gives you a more complete view of your quality issues. You can make adjustments to your process based on the trending data that will allow you to reduce reject levels and increase quality.

Production Efficiencies

You can use the Process Trending Module to identify improvements and savings in your production process. For instance, trial a new type of lubrication in your process, and measure the effects on your tool life. Then take that data and overlay it onto a chart displaying data recorded prior to the trial. You now have a clear and factual way to decide whether the new lubrication is an improvement over the existing product.

The Process Trending Module is a fool-proof decision making tool for any production manager

Use the Process Trending Module in your SPC projects, or combine it with OEE IMPACT Connect's Annunciator Module to monitor key parameters and alert staff when necessary. Real-time control alarms enable instant action to be taken based on accurate data.

- ◆ **Temperature variance can have a detrimental affect on processes such as case hardening**
- ◆ **Varying humidity levels can affect final quality in paper production**
- ◆ **Inconsistent torque levels in a bottle capping process can result in leakage**

It just got a whole lot easier to increase shop-floor productivity.....