



Generating a standard measurement that can be used for benchmarking and analysis is an essential tool for any business. Recording data manually is a labour intensive and time consuming activity. Seiki OEE calculations are based on access to logged records obtained from the machine tool to provide live and accurate data. This means that the small events that are often missed or recorded inaccurately are taken into account, allowing you to base decisions on factual and complete information.

Seiki OEE provides performance results for manufacturing managers who have direct responsibility for production efficiency. By calculating the Overall Equipment Effectiveness (OEE) of your existing assets, you can optimise their usage and reduce waste. This ultimately means reducing costs by avoiding unnecessary purchases and minimising downtime. An OEE figure combines measurements of machine availability, productivity and the quality of parts produced to quantify how effectively that resource is being used.

### Data Collection

The system collects data from events occurring on the resource via the shop floor terminal, where the operator is able to confirm the start and completion of each job. Whilst the job is running the Seiki software is able to support the collection of data manually entered by the operator (e.g. waiting inspection), and/or automatically collected from the machine (e.g. cycle start). The quantity of parts produced can be entered either manually or automatically (via part counter if fitted to the CNC) and can be progressive during the batch or upon completion. The operator is then able to confirm the job(s) as completed, which can revert the user interface to a default configuration, e.g. waiting new job. Seiki software can also record information such as Good and Scrap part counts and scrap code reasons.

### OEE Data Display

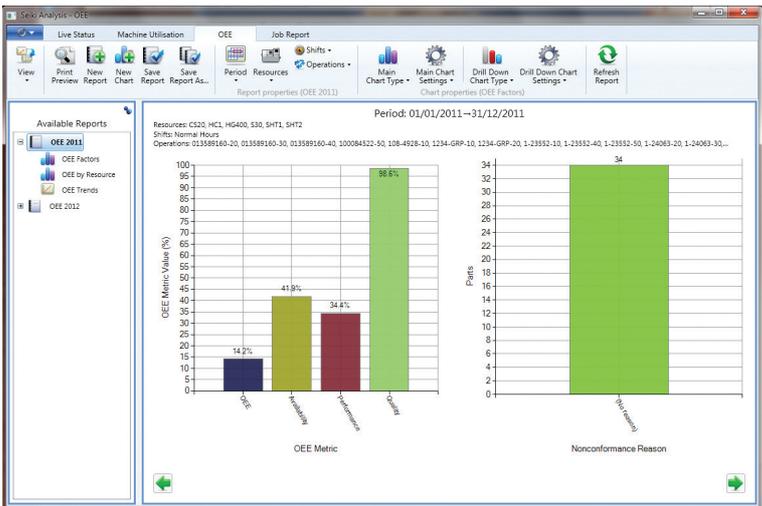
The analysis tool kit provides an easy method of accessing, viewing and summarising the manufacturing performance data, generating reports comprising of relevant management information based on real time data collection, which can then be used to inform strategies to optimise machine uptime, throughput and ROI. A dynamic dashboard provides a simple and powerful view of critical data such as productive time and efficiency on each resource by day or by shift.

Seiki OEE provides manufacturing organisations with the tools to turn data into knowledge. It commonly forms an essential element of lean manufacturing initiatives and can be used to drive continuous improvement strategies to enhance profitability. The manual and automatic data capture methods offered with the Seiki solution also enhance the integrity of the data on which strategic business decisions are made.

## Production Control Solutions

### The Benefits

- Industry recognised performance measurement
- See where you are losing time and productivity
- Generate a standard measurement for analysis and benchmarking
- Reduce costs by avoiding unnecessary purchases
- Concentrate on areas that will provide the greatest ROI
- Real-time key performance metrics (KPIs)
- Fast and simple analysis reporting
- Enables users to measure the effectiveness of multiple machines, without the problems associated with manual data collection and processing



### Related Modules

#### Seiki Monitoring

Allows users to view and record of all productive and non-productive events occurring on each resource. This module focuses on the machine as a critical variable in the analysis of your overall efficiency, as it enables users to quickly identify, evaluate and respond to important events whilst increasing equipment availability and reliability. When combined with job data collected from the Seiki SFDC module, the organisation benefits from a complete picture, both in real time and historically, of all the variables that can inform continuous improvement strategies.



#### Seiki SFDC

Provides a robust real time factory data collection solution, supporting more transparent, effective and efficient works order processing. The system collects data from events occurring at the resource via the shop floor terminal, including the start and completion of each job, and the quantity of parts produced. Accurate and reliable data is key to deriving a realistic view of the current status of all work in progress, which in turn provides a view of your true capacity for planning and scheduling work throughput.



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