

Seiki SFDC

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SYSTEMS

The capture of accurate and reliable production data is key to deriving a realistic view of the current status of all work in progress, which in turn enables you to have a view of your true capacity for planning and scheduling work throughput. Whilst traditional paper based methods can be used to collect and collate data, the data can often be inaccurate and consequently historical analysis has limited benefits. Seiki SFDC provides users with a robust data collection solution, supporting more transparent, effective and efficient order processing.

Using Seiki SFDC a job can be selected to automatically populate the job start/stop screen with the required works order information. The system collects data from events occurring at 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 Monitoring system 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.

Eliminating waste is an essential element in creating a more efficient and lean production process. Seiki SFDC can record information such as Good and Scrap part counts and scrap code reasons. Actual job operation times can be identified and configured to refresh the routing master within your manufacturing planning system, creating a closed data loop.

Creating a closed data loop

In order to realise all the benefits that are to be gained from job data collection, work queues (work-to-lists) may be used to support work in progress tracking. Seiki Work Queue Manager software is a module that enables scheduled works orders to be displayed directly on the shop floor for each workplace resource, providing the operator with forward visibility of the planned workload. Creating a work queue is simple. If you have a manufacturing planning system, such as the Seiki Scheduler or a third party ERP/MRP system, a work queue can be automatically created for each resource if the imported data for each works order contains a work centre resource reference. Alternatively works orders can be entered manually or 'dragged and dropped' from a central list to populate the work queues for each configured resource.

Seiki SFDC | Data Collection

Introducing Seiki SFDC...

Seiki SFDC is a works order data collection solution, allowing shop floor jobs to be started, finished or paused. Data entry is supported both manually and via barcode entry. This module can be operated in conjunction with work queues where applicable to support work in progress (FIFO) booking/tracking.



The Features

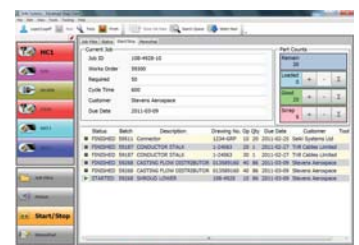
- Collect job status data - start/finish/pause
- Automatic and manual part counting
- Enter scrap code numbers and reasons
- Integrated with work queues
- Graphical reports of individual job performance
- Export data as .csv, .bmp or HTML format for easy distribution
- Integrates to your ERP system for automatic updating of inventory levels

The Benefits

- A data collection solution designed specifically for the shop floor environment
- Improve visibility of works order status and material traceability
- Achieve greater data accuracy and on-time deliveries
- Optimise works order performance by improving output and reducing scrap levels
- Perform W.I.P tracking
- Supports accurate job costing
- Provides reliable data for continuous improvement strategies



Seiki Monitoring collects machine utilisation data



Display works order information and start or complete jobs

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Seiki SFDC | Data Collection

It is also possible to group resources in order that a works cell may share a single work queue. Individual work queues may be configured into a single resource work queue to co-ordinate supportive activities to the same set of priorities and deadlines, for example this knowledge can enable the tool-presetting area to prepare tool kits for CNC machines in order of priority. Work in progress tracking is achievable using this combination of live manufacturing data when used with Seiki Planning Board or Seiki Scheduler.

Manufacturing Intelligence

Seiki analysis software acts upon the central data repository, providing an easy method of accessing, viewing and summarising manufacturing performance data to generate reports comprising of relevant management information based on real time data collection. Seiki Job Report software provides graphical reporting and detailed historical analysis of the progress and times of operations for individual works orders, including a comparison of planned versus actual job times and costs.

Each individual job report displays the part number, works order number, start time, total duration and quantity produced. The results can be presented in a pie chart, displaying an accumulation of the various activities that each operation involves between the start and completion of the job, together with an event sequence bar chart to show the individual job timeline. Within this graphical display the accumulative totals of the various actions on the job, e.g. setting, production and waiting, can also be made available through Seiki Monitoring. The information is shown as actual time spent on a given activity, with a percentage of total job time and the frequency with which the activity occurred. If the estimated or planned time for the job has been allocated it can subsequently be compared with the actual time that the job took (batch and per part) based on the data collected, and to further support accurate analysis, the system also enables you to allocate hourly costs for each machine. As well as detailed job analysis the software displays trends on repeating jobs in the form of a bar chart with activity lists.

All analysis data can be exported in a number of formats for internal distribution. This data from the shop floor will enable management to make informed business decisions and put in place initiatives to reduce costs and improve performance.

The Seiki Solution

Seiki has over 20 years experience in the development and implementation of real time manufacturing systems that provide live production management information and visibility to maintain a controlled and flexible approach to the manufacturing process.

Seiki SFDC software is available as a stand alone solution or as an integral part of the Seiki Networked Manufacturing System (NMS). Other modules include:-

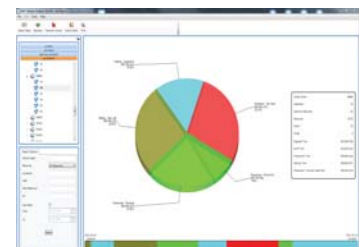
- Seiki DNC
- Seiki Jobpack
- Seiki Monitoring

Each of these packages are also available separately. The modularity of Seiki software provides manufacturers with a flexible solution and progressive upgrade path. Furthermore the Seiki solution is scalable. One of the key advantages is the ability to address your most critical areas first with the option to expand the system as your business grows.

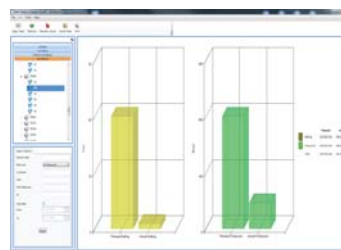
We offer a complete service including planning, installation, implementation, customisation, training and after sales support.



Record scrap codes and reasons



Graphical reports of individual job performance



Compare planned vs actual job performance



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Seiki Systems' suite of manufacturing execution software can be utilised for planning, controlling and improving the works order lifecycle - from top floor to shop floor - of any manufacturing company. Visibility and control of all stages of the manufacturing process is essential. Creating a leaner systematic approach can result in significant capacity and efficiency improvements that can lead to real cost reductions.