oerlikon
barmag

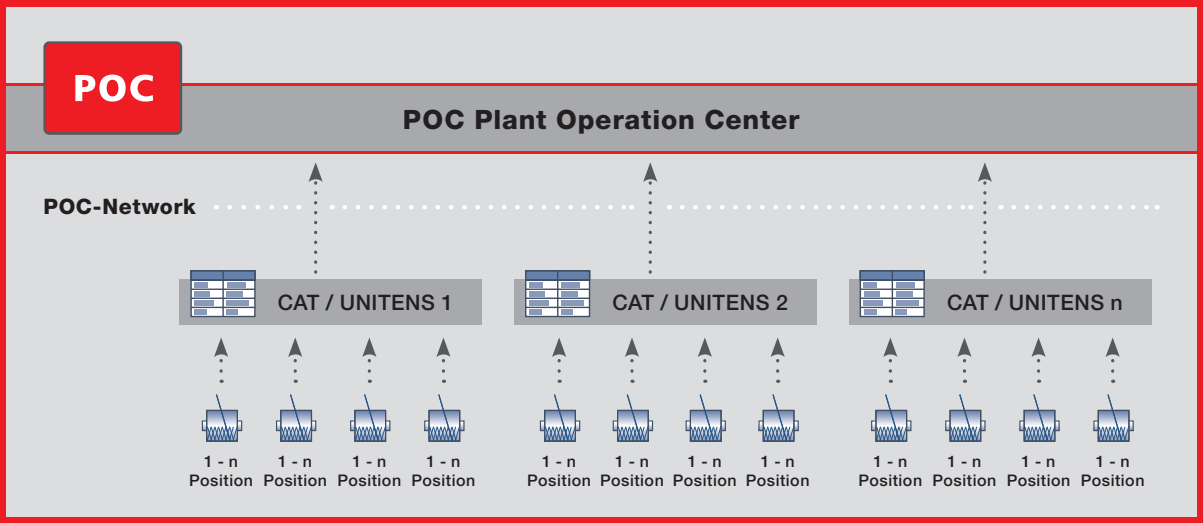
Plant Operation Center

Software for Texturing Plants

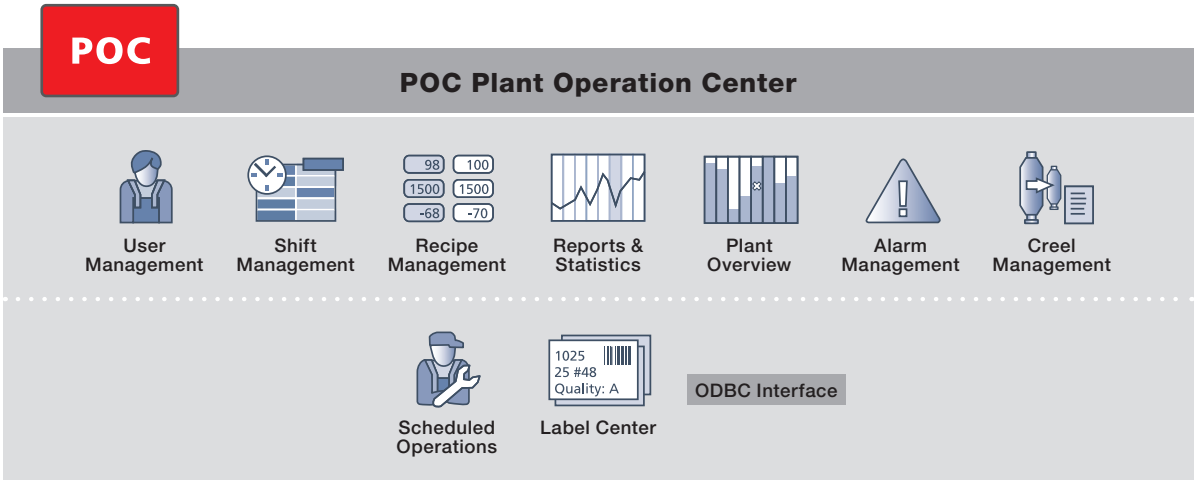
About POC

POC – Plant Operation Center – is the all-embracing workflow management system by Oerlikon Textile. It is designed to detect and optimize the production processes within a production stage, e.g. texturing, or over all production stages – starting with the raw material up to the end product.

At the same time, we are extending POC with a view to integrating all levels of internal order handling. Thanks to a high degree of modularity, scalability, and system openness makes Oerlikon Textile able to offer the customers with POC a perfectly tailored solution enabling a simple start and including the possibility of continuous upgrading.



Module Overview



Modular concept

- Central plant control possible
- Integration of all elements of a process chain within a workflow
- Integration of existing Oerlikon Textile software possible
- Only required modules need to be purchased – and paid!
- Lasting topicality by updates and upgrades guaranteed
- Future extensions with supplementary POC-modules possible
- Surplus values by combination of functional modules
- Future integration of new machines possible
- Job-oriented operating structures

Module characteristics

The modules are provided for different platforms:

Desktop
Desktop modules are used directly at the workstation

Web
Web modules are used via browser

Mobile
Mobile modules are provided for PDAs and are used via browser

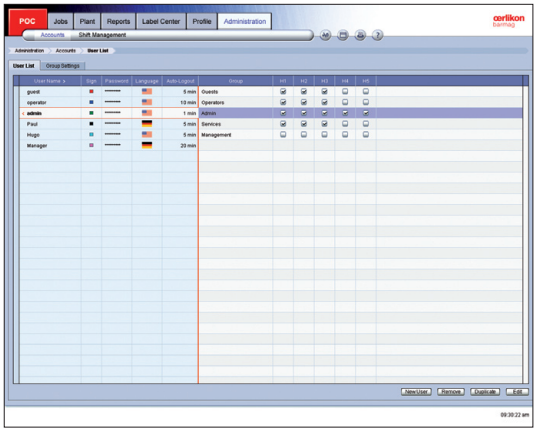
Modules

POC User Management

The POC User Management provides a powerful and flexible tool for the plantwide administration of the user accounts.

A separate account may be set up for each entitled user in a production plant. User Groups and domains may be defined to control the access rights of every user to system items such as menus, setpoints, or functions in a very flexible way.

The POC User Management is the central administration tool for the user accounting in a production plant. User accounts and access rights may be managed and distributed easily from one central location in the whole plant.

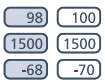


POC Shift Management

The POC Shift Management provides a powerful and flexible tool for the administration of the plantwide shift calendar.

The user may define different shift groups and assign the groups to weekly shift models. A plantwide shift calendar with the horizon of one year in advance may be set up to define the shift groups and related shift times.

The POC Shift Management is the central management tool for all shift and shift calendar related information. Shift times and group assignment needed for shift related statistics and reporting tools in a production plant are distributed easily from a central location.

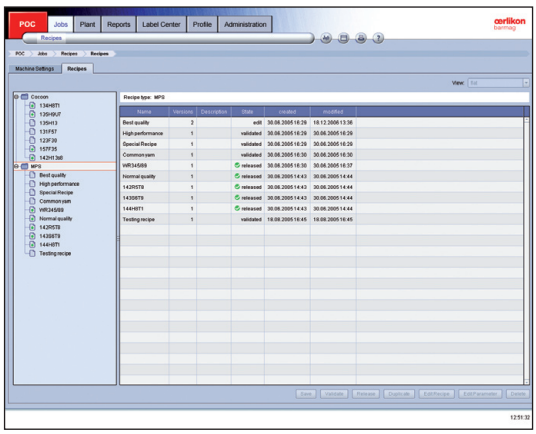


POC Recipe Management

The POC Recipe Management provides a central plant wide management of recipes.

With the POC Recipe Management machine settings can be stored and transferred to recipes. Those recipes can be archived, validated, edited, and then downloaded back to any machine connected. The Recipe Management automatically checks, if the desired set of information matches the physical arrangement.

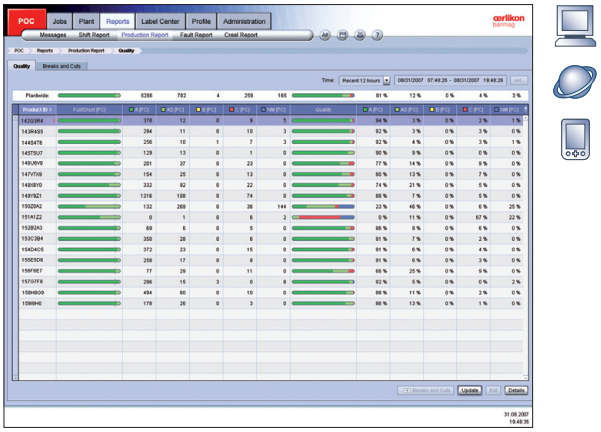
The POC Recipe Management has to be part of the system, if a connection to ERP (e.g. SAP) systems will be implemented, as it is the interface between an order/offering system and the real process settings for the machines.



POC Reports and Statistics

POC Production Report

The POC Production Report provides information about the accumulated production results of a production plant.



Users may obtain the evaluation of typical production data, such as numbers of packages of the different quality categories and the full/short package ratio. The production data will be presented either accumulated on a lot-related basis or may be broken down to machine- or position-related views. The evaluation timeframe of the report is selectable by the user.
The POC Production Report improves the overview over a production plant, since it transparently presents amounts and types of packages produced during a given timeframe.

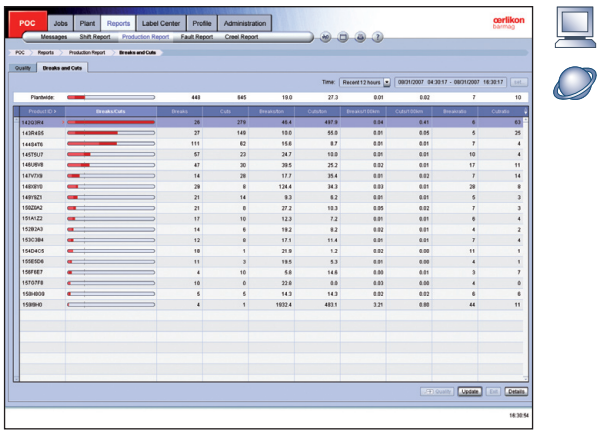
POC Shift Report

The POC Shift Report provides information about the shift-related production results of a production plant.

Users may obtain the evaluation of typical shift data, such as machine and production efficiency and production weight. The shift data will be presented either as trend diagram for several subsequent shifts or may be broken down to machine related views per shift. The evaluation timeframe of the report is selectable by the user.
The POC Shift Report improves the overview over the productivity of the different shifts, since it clearly documents the shift related efficiencies and produced weights per shift or machine.

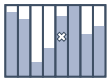
POC Yarn Break Report

The POC Yarn Break Report provides information about the total yarn break situation in a production plant.



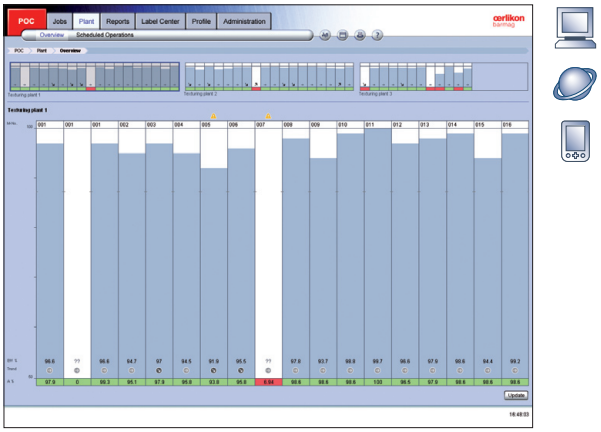
Users may obtain the statistical evaluation of yarn breaks related to the production weight or to the yarn length.
The yarn break evaluation is presented numerical and as bar graph and may be broken down from a lot-related presentation to a machine- or position-related view. The evaluation timeframe of the report is selected by the user.
The POC Yarn Break Report increases the process transparency, since it clearly documents the production stability and points out weak production positions. Positions needing corrective actions can be localized precisely and quickly.

Modules



POC Plant Overview

The POC Plant Overview provides information about the machine status in a production plant.

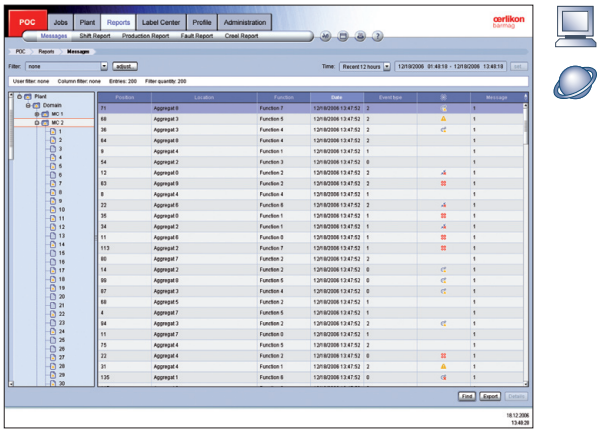


Users can obtain a quick and easy overview about the status of connected machines. As well as displaying the machine name, users are also presented with logical information should any problems with a particular machine occur. This information includes the status of production efficiency or quality distribution.

The POC Plant Overview helps users to quickly identify and effectively resolve any machine problems. Users are able to determine the actual production efficiency or the quality distribution of the machine production.

POC Alarm Management

The POC Alarm Management and Event Protocol provides a plantwide chronical log of all machine- and position-related stopping codes and further production relevant events (i.e. shift changes).

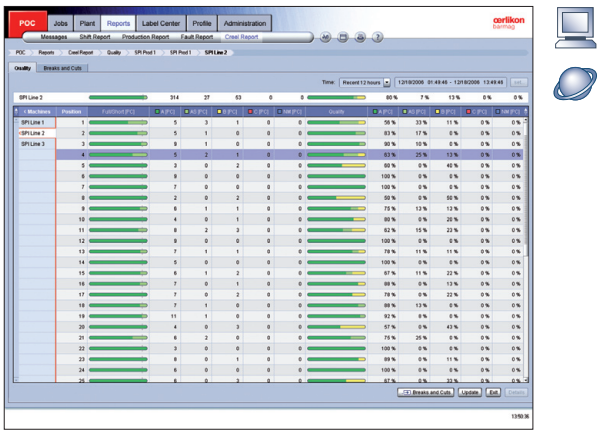


Date / time stamped event codes are stored in a plantwide archive. The user may open the event log with a selectable timeframe and machine number. All relevant events selected will be shown in chronological order with date and time stamp, location, as icon and text description.

The event protocol supports plantwide troubleshooting and tracking of production and machine problems.

POC Creel Management

The POC Creel Management can only be used in conjunction with the Oerlikon Barmag Creel Manager®.



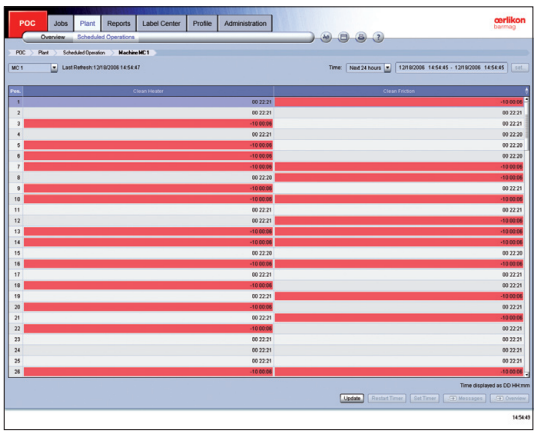
It assigns the DTY package information to the correspondent POY package information, including all necessary information for product tracking.

Specific reports and statistics help to identify DTY production problems caused by POY quality characteristics. The POC Creel Management is a very powerful tool to identify and replace the questionable POY packages and to increase quality and efficiency of the DTY production.

POC Scheduled Operations

The POC Scheduled Operations provides a plantwide overview over the scheduled activities at a texturing machine.

Product-relevant tasks, e.g. heater cleaning cycles cycles, will be set up as an extension to the recipe management. Shifts will get detailed information about according “to-do´s”. Performed actions will be logged and can be tracked for performance analyses.

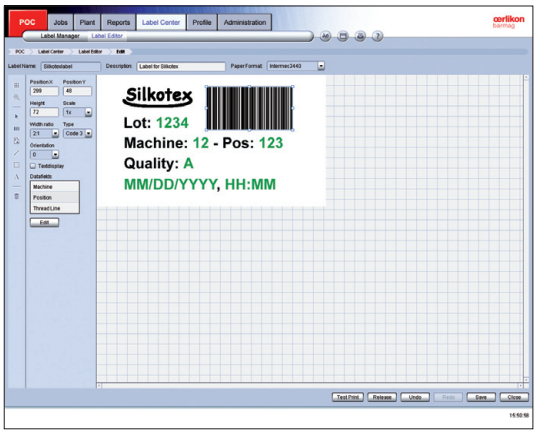


POC Label Center

To be able to identify packages post doff you have to put labels into the paper tubes. Therefore, a system is needed to print labels automatically or on demand: The POC Label Center.

This system allows the production management to place a configurable amount of printers into the aisles according to their machine operation.

To have a higher flexibility this module comes with a Label Editor. This allows customers to design different labels for different products (e.g. logos and bar codes ...) without changing the software of the system. It allows as well to add or remove information to the label, e.g. different times (swap end of runtime with doff time).



POC ODBC Interface

The POC ODBC Interface provides read only access to doff and break data according to Oerlikon Textile standard definitions. The interface is based on using Views to the POC SQL Server database.

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TEX POC 1e / 09-2007
Subject to changes