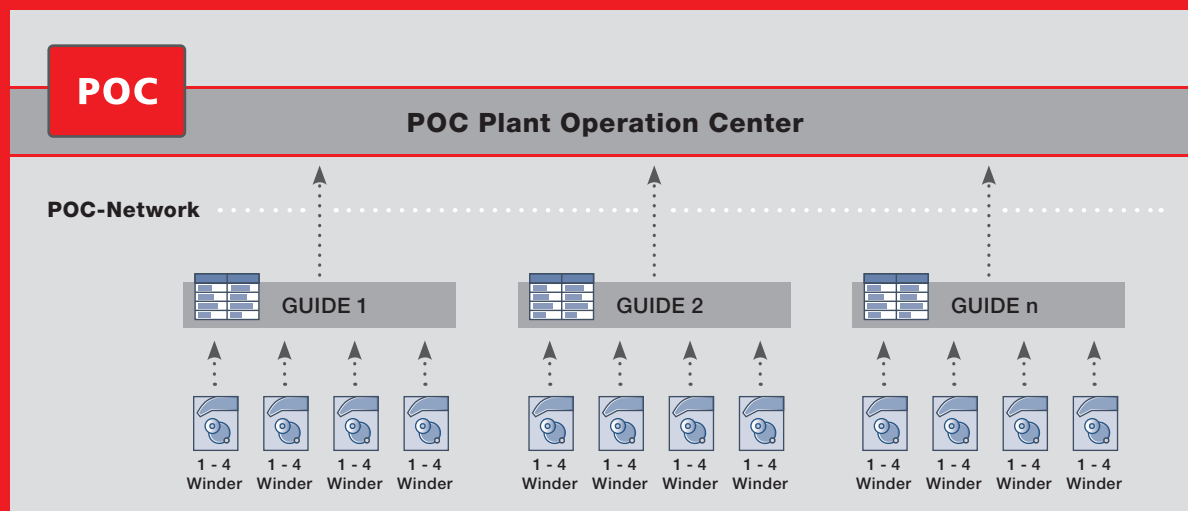# oerlikon
barmag

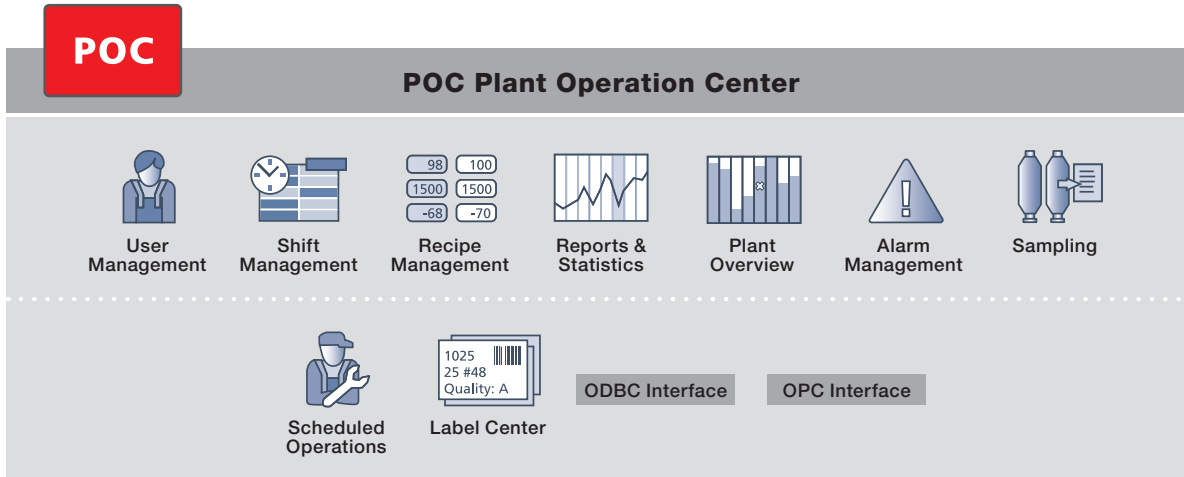# Plant Operation Center
Software for Spinning Plants

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. spinning, 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

POC

POC Plant Operation Center

User Management
Shift Management
Recipe Management
Reports & Statistics
Plant Overview
Alarm Management
Sampling

Scheduled Operations
Label Center
ODBC Interface
OPC Interface

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.
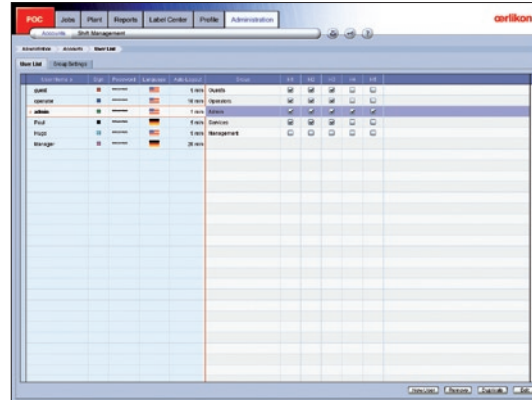

POC Shift Management

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.
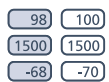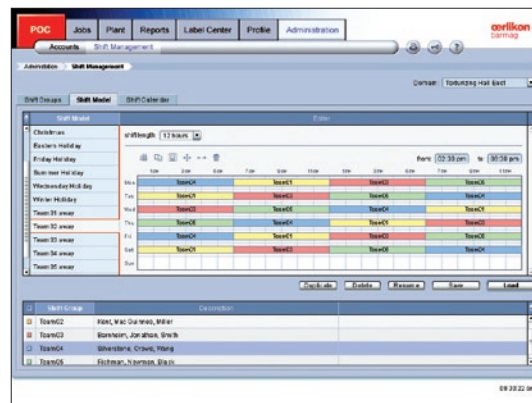

POC Recipe Management

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.
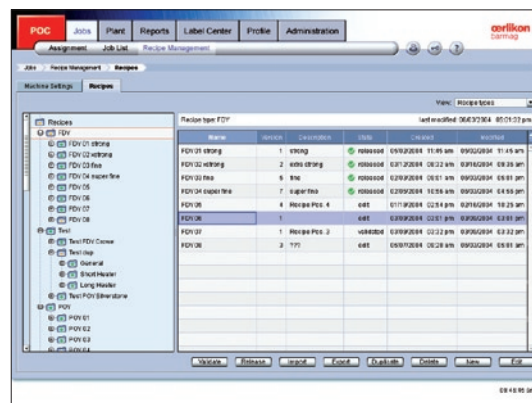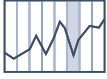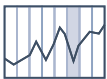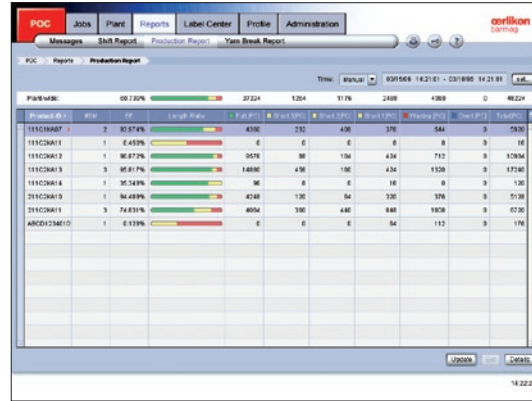
POC Reports and Statistics
POC Production Report

The POC Production Report provides information about the accumulated production results of a production plant.
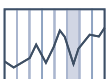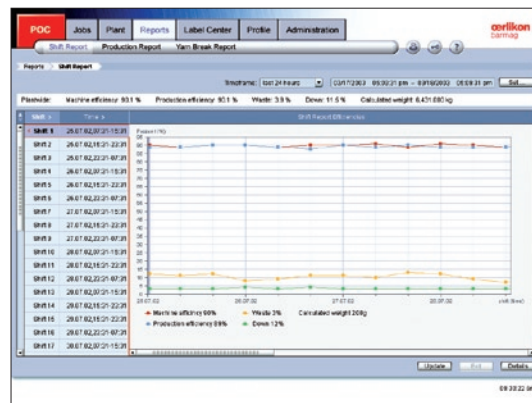
Users may obtain the evaluation of typical production data, such as numbers of packages of the different size categories and the full/short package ratio. The production data will be presented either accumulated on a lot related basis or may be broken down to machine or position related views. The evaluation 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, production weight and downtimes. The shift data will be presented either as trend diagram for several subsequent shifts or may be broken down to machine or position 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, produced weights and downtimes per shift, lot, machine or position.


POC Yarn Break Report

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

Users may obtain the statistical evaluation of yarnbreaks related to the different phases of a package build up. The yarnbreak evaluation is presented numerical and as bar graph and may be broken down from lot related presentation to a machine, position or even threadline related view. The evaluation timeframe of the report is user selectable.

The POC yarn break report increases the process transparency, since it clearly documents the process stability and points out weak production positions or threadlines. Positions needing corrective actions can be localized precisely and quickly.
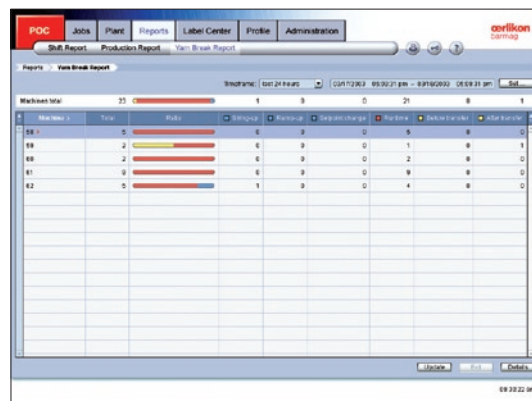
Modules
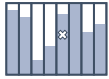
POC Plant Overview

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. Not only will an overview of the plant be displayed, but also extensive information right up to the details of a position can be retrieved. 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 the winding time or yarn breaks. The handy tool helps users to quickly identify and effectively resolve any machine problems.

In this way users can determine yarn breaks at a machine, or when problems at a position due to runtime and/or park time prewarning have occurred.
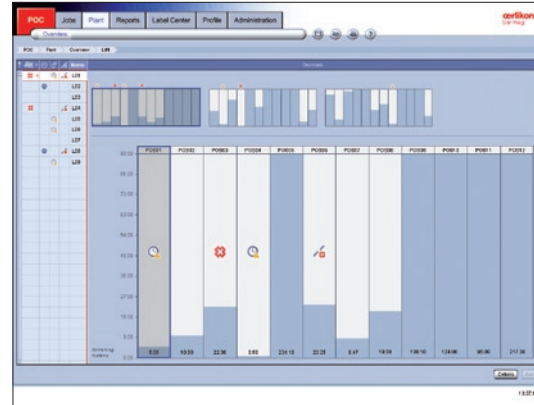
POC Alarm Management

The POC Alarm Management and Event Protocol provides a plantwide chronologic 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 the plantwide troubleshooting and tracking of production and machine problems.

POC Sampling

With POC Sampling you get the opportunity to mark those packages to be lab-examined subsequently. This marking can be forwarded to an existing automation system as well as printed onto a label (POC Label Center).

POC Sampling supports both functions – that of manual sampling and that of scheduled sampling (weekly repetitions).

POC Scheduled Operations

The POC Scheduled Operations provides a plant wide overview about scheduled activities at a spinning machine.

Product relevant tasks, e.g. pack changes and wiping 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.
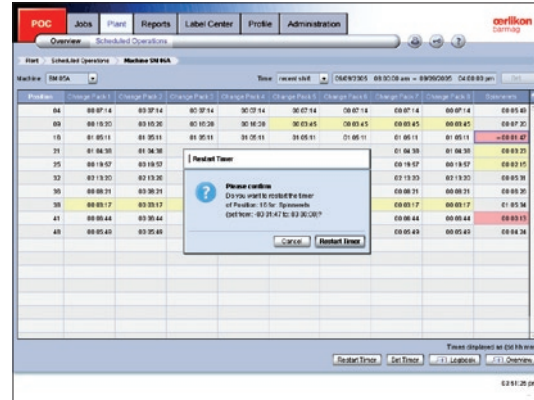

POC Label Center

To be able to identify bobbins 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).
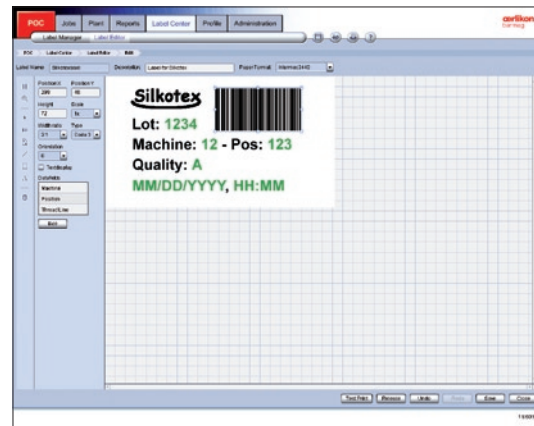
POC ODBC Interface

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

In conjunction with the POC Alarm Management read only access to the alarm messages is provided in addition.

POC OPC Interface

The POC OPC Interface provides read only access to the online data according to Oerlikon Textile standard definitions. The interface is based on OPC Server DataAccess 2.

Analog and digital process values, e.g. winder speed and winding yarn status, are available via the OPC Interface.

SPI POC 3e / 08-7
Subject to changes