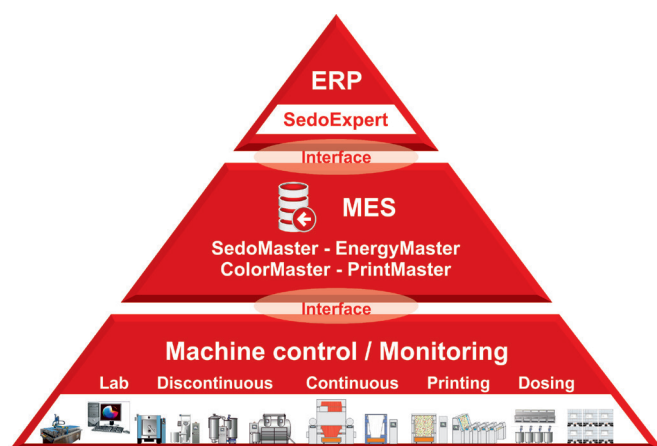




## Expert software for the fully automated textile industry



Production optimization with MES closes the gap between ERP and machines.

SedoExpert is an ERP/MES platform designed to manage modern textile factories and to operate within a completely integrated, automated environment. SedoExpert supports the following operations:

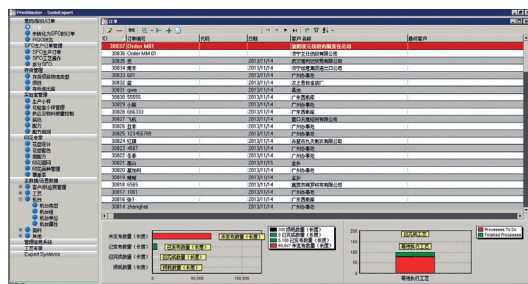
- Knitting, weaving mills
- Fabric dye houses (exhaust and continuous)
- Yarn dye houses
- Printing mills
- Laundries
- Denim Plants

SedoExpert can handle customer orders, production orders, inventory, planning, billing, MIS and much more.

Connected to the integrated MES systems like SedoMaster, ColorMaster, PrintMaster and EnergyMaster, the data is available also on machine level, resulting in a fully optimized production process.

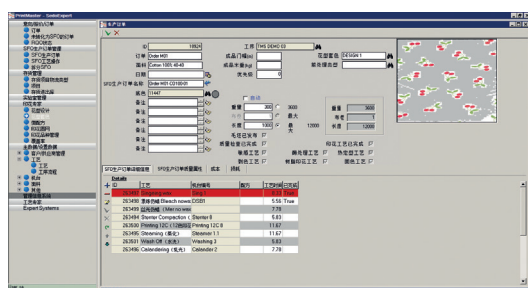


## The modules



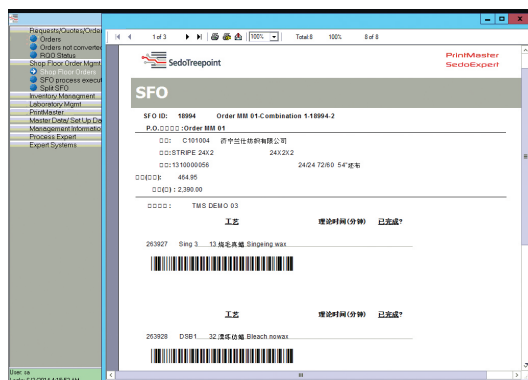
The screenshot displays a software interface with a sidebar menu on the left containing various system modules. The main window shows a table of customer orders with columns for order ID, date, status, and other details. Below the table, there are several summary statistics and a small bar chart.

Overview of existing customer Orders and Execution Status



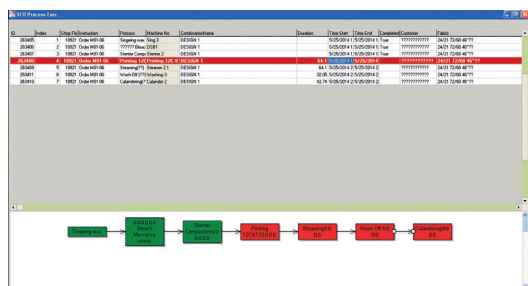
This screenshot shows the 'Production Order Screen'. It features a sidebar menu and a main area with a form for creating or editing a production order. The form includes fields for material, quantity, date, and various checkboxes for different production steps. A small image of a product is visible on the right side of the form.

Production Order Screen



The screenshot shows the 'Production Order Floor Document'. It displays a detailed view of a production order, including a barcode, order ID, and various technical specifications. The document is presented in a clean, professional layout with a sidebar menu.

Production Order Floor Document



This screenshot shows the 'Production Order Execution Status Screen'. It displays a table with columns for order ID, status, and execution details. Below the table, there is a flowchart illustrating the production process from raw materials to finished goods.

Production Order Execution Status Screen

SedoExpert comprises a number of different modules such as:

### Customer orders management:

- Request, quotation, order receipt,
- Order execution and billing
- Pricelists and commercial agreements

### Production orders management:

- Order execution/costing
- Production planning
- Process settings management
- Quality management

### Inventory:

- MRP function
- Transactions management
- FIFO reconciliation

### MIS and business intelligence

### Lab operation management:

- Recipes management
- Lab operation
- Samples management

### Customer Relations:

- Customer relations management
- Supply chain management

### Integration Engine

- Integration to systems, like Color-Master/PrintMaster, SedoMaster, QualiMaster...

### Orders management

covers a large number of operational functions, like

- customer order management,
- Costing,
- Follow Up Execution,
- dispatch,
- Billing

Also price quotations, pricelists, commercial agreements and their implementation are managed from here and are used during billing.

### Production orders management

covers operational functions, like

- production order creation,
- batching,
- Routing,
- Production execution,
- Re-processes management,
- Quality management

### Inventory module

The module manages dyes, chemicals, fabrics, packaging, auxiliaries etc. inventories according to general ledger and accounting requirements (FIFO).

It manages all types of inventory transactions (purchases, consumptions, shipments, etc.)

It further issues monthly inventory consolidation reports, and performs MRP tasks.

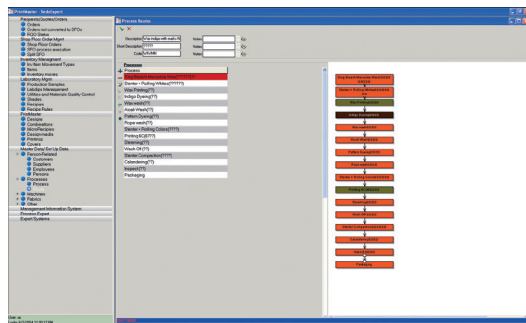
### Lab management

This module allows the User to manage the Laboratory. This includes

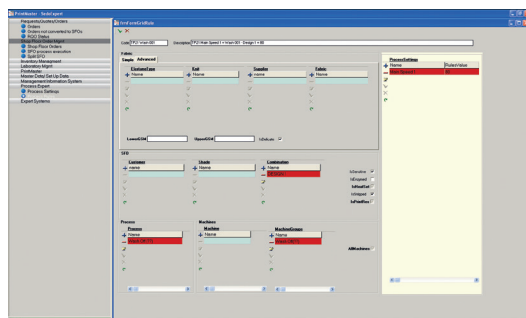
- lab samples and dips management
- Incoming materials control
- Lab tasks management
- Recipes management



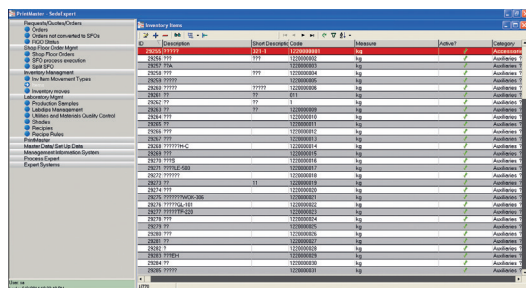
## The modules



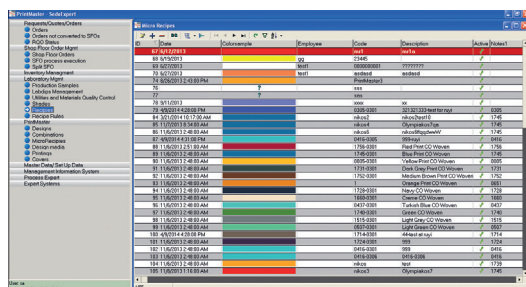
Processing Route Master Screen



Process Settings Management: The Rules Editor



Inventory Items Master Screen



Microrecipe Screen

### Costing functionality

This function allows the user to calculate theoretical cost of an order as early as when an order is placed and later monitor and compare actual with theoretical cost.

Actual cost considers every single costing aspect (materials, labor, overhead, energy, water) making the costing module an extremely powerful decision supporting instrument.

### MIS & business Intelligence

Data from all systems included in the integration framework are collected centrally in the SedoExpert database and utilized by a very powerful reporting and Business Intelligence System.

It is especially designed to facilitate operational and strategic decision making by textile factories.

It stems from our decades-long field experience and will help the various management levels to make the correct decisions in every occasion.

### Production planning module

Scheduling simulation engine

- Automated schedule generation

Interactive user planboard

- User can interfere with schedule suggestion
- Scenarios evaluation

Scheduling rules expert

- Define user-specific planning rules

Integration with other applications

- Export planning results to SedoMaster
- Update plan with data from SedoMaster

### Process settings management

Operation management

- Orders execution
- Quality management
- Inventory management

Continuous processing expert

- Fabrics processing expert
- New products development expert
- Finishing trouble shooting expert
- Best practices support.

**Process setting manager:** controls the settings values by means of a powerful rules-editor, a functionality ensuring that the same or similar products are processed in the same way.

**Trouble shooting function:** allows users to address production problems on-line during processing. The methodical trouble shooting approach guides the user towards re-establishing the optimum way to process fabrics and achieving the required results.

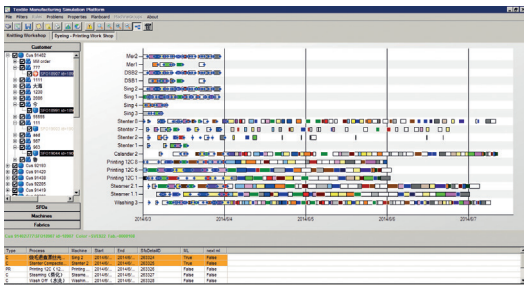




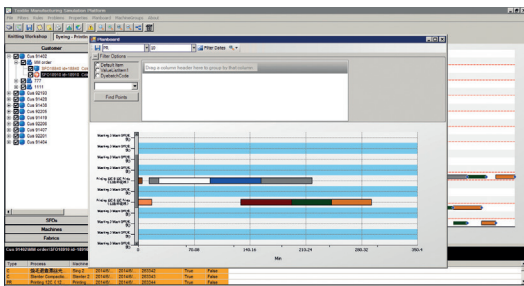
## Connect with machine level



Sedomat 5800 on continuous machine



Planning (Simulation) Result



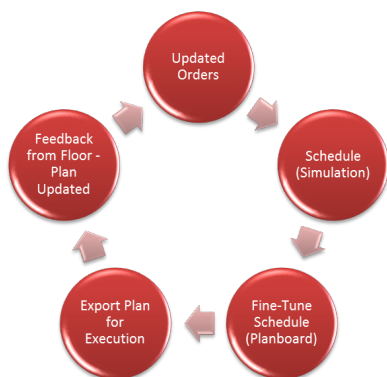
Planning User Fine Tuning Screen

SedoExpert can be interfaced with the individual machines via Sedomat controllers which ensure data exchange between the MES and the machine components.

1. In the production, the operator scans the production order.
2. Automatic download of process data to the machine PLC (Sedomat).
3. The production starts, the Sedomat monitors and controls execution.
4. SedoExpert, SedoMaster and Planning module are updated with execution data.

### Integration possibilities to existing ERP systems

SedoExpert can be linked to existing ERP systems in order to avoid redundant work and large-scale re-organization of an operation.



Integration of Planning Module to Production Process

Head office:  
**Sedo Treepoint GmbH, Germany**  
 Neuwies 1, D-35794 Mengerskirchen  
 Phone: + 49 6476 31-0  
[sedo@sedo-treepoint.com](mailto:sedo@sedo-treepoint.com)

Sedo Treepoint, Switzerland  
[switzerland@sedo-treepoint.com](mailto:switzerland@sedo-treepoint.com)

Sedo Treepoint, Belgium  
[belgium@sedo-treepoint.com](mailto:belgium@sedo-treepoint.com)

Sedo Treepoint, China  
[china@sedo-treepoint.com](mailto:china@sedo-treepoint.com)

Sedo Treepoint, India  
[india@sedo-treepoint.com](mailto:india@sedo-treepoint.com)

Sedo Treepoint, Singapore  
[singapore@sedo-treepoint.com](mailto:singapore@sedo-treepoint.com)

Sedo Treepoint, USA  
[usa@sedo-treepoint.com](mailto:usa@sedo-treepoint.com)

Technical specifications are subject to change without prior notice.