To achieve the best and most efficient color result

ColorMaster

The expert system for recipe management and color measurement is suitable for production as well as laboratory. ColorMaster makes sure that the best and most cost-effective recipe is calculated. It offers the best possible treatment and defines the correct dye program. Colorimetric control of different production steps and calculation of additions for additional treatments enhance its functionality. The exact calculation of color recipes save a lot of dyestuffs, chemicals and costs. This makes ColorMaster a great tool for all dyeing and finishing plants.

Modules

| Production | Color Measurement | Link to SedoMaster | Link to laboratory dosing station | Database access |

Process and Recipes

ColorMaster creates intelligent production processes for all finishing types, mapping all production machines, used materials and different treatment routes. The control and administration of the entire finishing area is developed into three logical groups.

Definitions - DEF

Customers, suppliers, machine groups and the machines with key features such as minimal and maximum liquor are defined here. Type of distribution, weighing and dosing systems and all data of a connected production management system describe the production possibilities.

Process Management - PM

Dyestuffs and their classes, chemicals, parameters, and the process material based on fiber types are determined here. The dyestuffs to be used in the production recipes are selected in the dye processes.

Production - PROD

Recipes are based on an individual treatment. These are divided into production and laboratory treatments. A treatment (e.g., bleaching, dyeing, soaping and rinsing) consists of a sequence that describes the preparations, chemicals, dyestuffs, gradients (parameter) and manual instructions for the machine operator. By using rules for treatments, chemicals, parameters, and dyestuff requirements are calculated for production.

Features

- **Cost cutting** in production result in optimized recipes with consistent treatments.
- **Treatment safety and minimization of human errors** by taking deviations from the standard process into account in production calculations.
- **Environmentally friendly production** by adjusting the amounts of chemicals and water for different treatments depending on the material and color depth.
- **Connection** to a host system is possible and color recipes of external systems can be used.
- **Integrated, fully automatic production system** by integration of ColorMaster into SedoMaster or another central management systems.
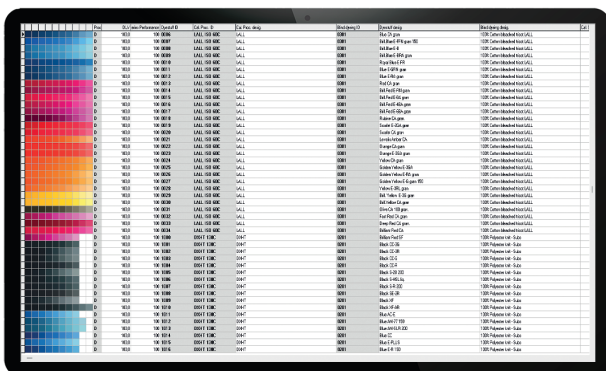
Color Measurement

The powerful colorimetric software supports the creation of recipes for laboratory and production. A clear administration of calibration series and the corresponding dye processes simplify the efficient color development. Integrated PASS/FAIL functions with calculation of additions makes ColorMaster a true expert system for the dyeing and finishing industry.
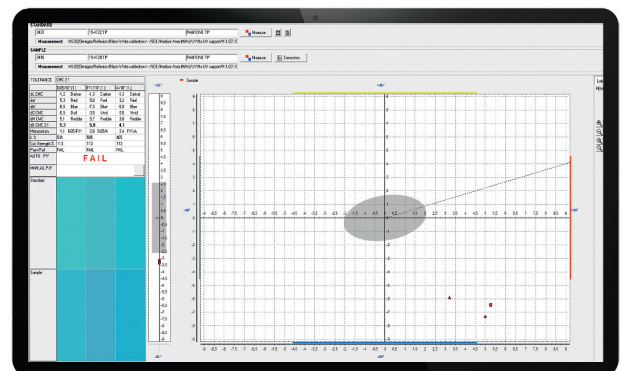
Features

- **Colorimetric search** with the customer sample supports easily finding a similar production recipe. In this way laboratory work is reduced and the transfer lab/production is greatly enhanced.
- **Reproducible recipes** due to the further intelligent graphical laboratory applications. It ensures that the calculated recipes matches the color sample, is metamerism-free, is color consistent and inexpensive.
- **Production control** is supported by the integrated addition calculation. At first, recipes with different samples are prepared for Pass/Fail controls for both finishing and final inspection. Correction treatments like additions and washing treatments are stored with batch data. The dyestuff and chemical consumption is exactly registered. The report of batch data assists in recipe correction prior to a new batch and minimizes additions.
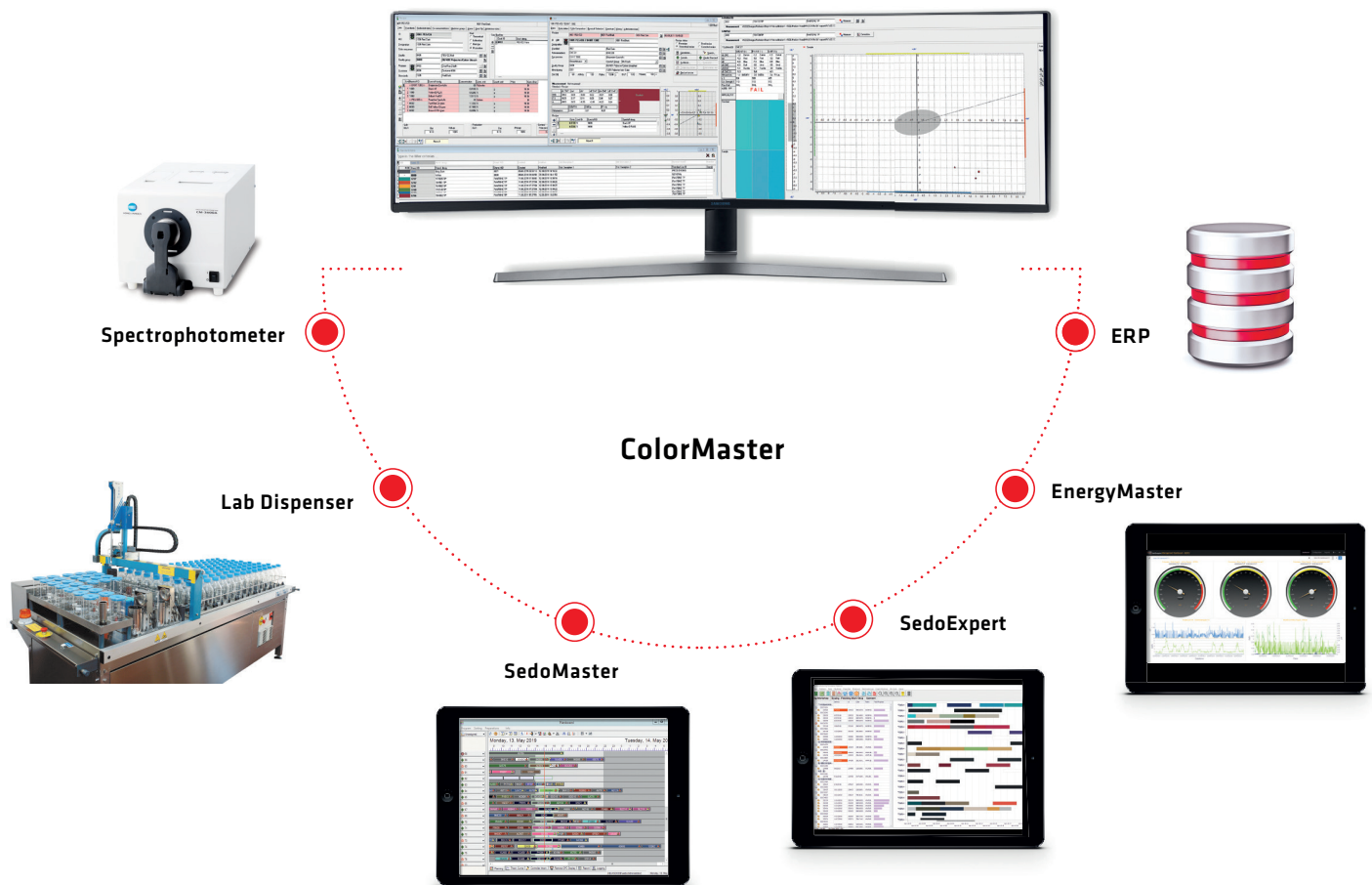
Colorimetric Reports

- Check fastness according to ISO grey scale
- Statistic evaluation
- Comparison of color strength and standard depth
- Color communication
- Whiteness according to Berger, CIE, or Ganz/Griesser

Calibration series

Color difference

ColorMaster

Spectrophotometer

ERP

ColorMaster

Lab Dispenser

EnergyMaster

SedoMaster

SedoExpert

ColorMaster is a modular system that can be set up for a simple recipe and quality control system or to a complete system with production management. All modules are connected to the same database. It can be easily adapted according to the needs of new requirements.

To create a dye house with completely optimized automatic production, ColorMaster is, together with the management system SedoMaster, a powerful and necessary tool.

SedoTreepoint

Experts in process optimization