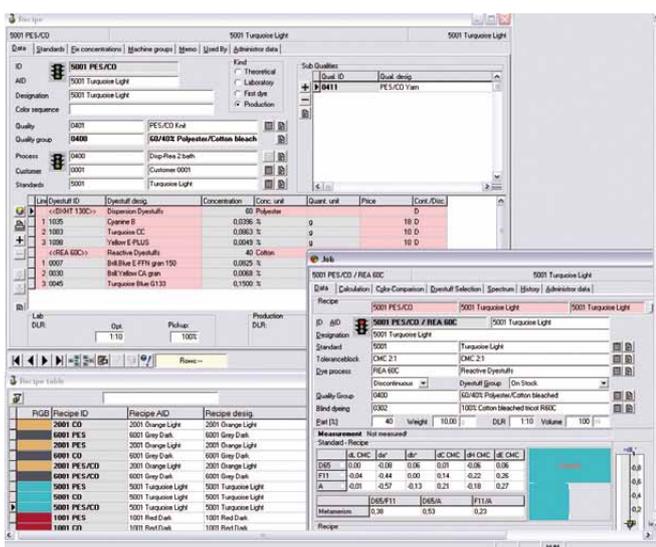
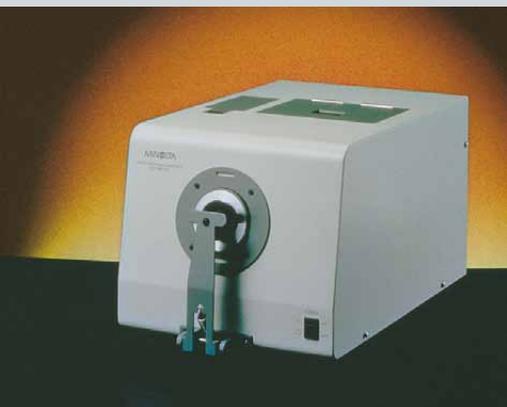
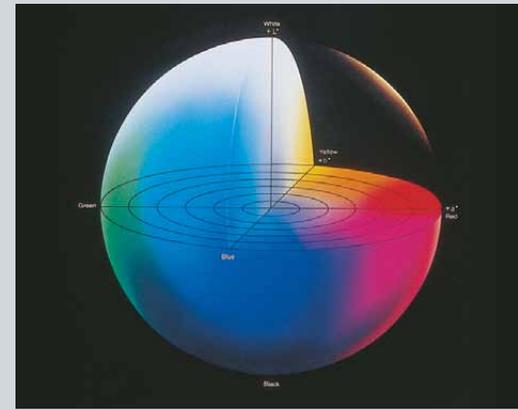
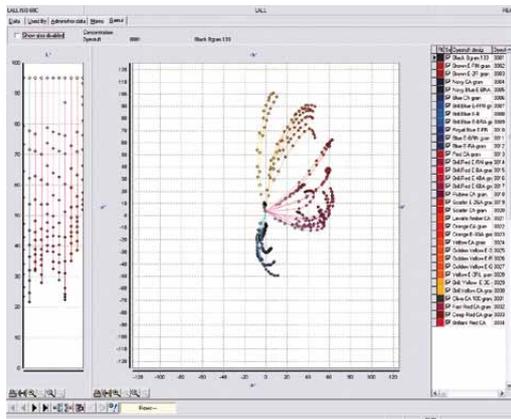


Optimized production, integrated color and recipe management

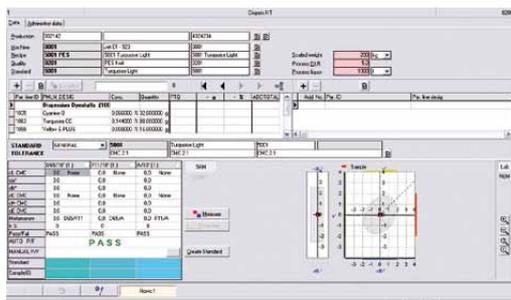


The Windows based software package ColorMaster is an expert system for recipe management and color measurement. In the laboratory ColorMaster allows the best and most cost-effective recipe to be calculated. For production the integrated processes within ColorMaster offer the best possible treatment and define the correct dye program. Colorimetric control for the different production steps and calculations of additions with addition treatments enhance the functionality of ColorMaster. To create a dye house with completely optimized automatic production, ColorMaster is, together with the management system SedoMaster, a powerful and necessary tool.

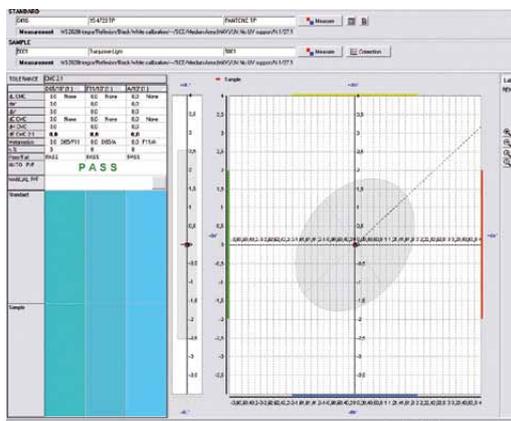
Color measurement



Available calibration series



Addition calculation



Pass/Fail

Material	Quantity	Price
AM01	1131.27 g	462.00
AM02	824.81 g	329.92
AM03	617.72 g	247.08
AM04	498.96 g	199.58
AM05	419.71 g	167.89
AM06	2462.21 g	984.88
AM07	4485.21 g	1793.29
AM08	1584.21 g	633.69
AM09	1002.21 g	396.88
AM10	474.21 g	189.69
AM11	8882.21 g	3513.69
AM12	2178.21 g	871.69
AM13	33.21 g	13.69
AM14	25402.21 g	10061.69
AM15	128.21 g	51.69
AM16	788.21 g	313.69
AM17	828.21 g	331.69
AM18	2138.21 g	854.69
AM19	8828.21 g	3531.69
AM20	482.21 g	192.69
AM21	1002.21 g	396.69
AM22	1002.21 g	396.69
AM23	1002.21 g	396.69
AM24	1002.21 g	396.69
AM25	1002.21 g	396.69
AM26	1002.21 g	396.69
AM27	1002.21 g	396.69
AM28	1002.21 g	396.69
AM29	1002.21 g	396.69
AM30	1002.21 g	396.69
AM31	1002.21 g	396.69
AM32	1002.21 g	396.69
AM33	1002.21 g	396.69
AM34	1002.21 g	396.69
AM35	1002.21 g	396.69
AM36	1002.21 g	396.69
AM37	1002.21 g	396.69
AM38	1002.21 g	396.69
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AM40	1002.21 g	396.69
AM41	1002.21 g	396.69
AM42	1002.21 g	396.69
AM43	1002.21 g	396.69
AM44	1002.21 g	396.69
AM45	1002.21 g	396.69
AM46	1002.21 g	396.69
AM47	1002.21 g	396.69
AM48	1002.21 g	396.69
AM49	1002.21 g	396.69
AM50	1002.21 g	396.69

Material consumption

Recipe development:

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

Tolerance block:

The tolerance block is defined with difference formulas like CMC, CIELAB or with absolute deviations. The free choice of three light sources with their own tolerance values controls all further colorimetric definitions. Using this, customer specific guidelines are saved

Calibration series and methods:

Calibration series are stored in calibration methods by dyestuff manufacturer and dye treatment. This organization permits easy and effective works with calibrations from different manufacturers.

Blind dyes:

Storage of information on the substrates from the calibration series and of the ready-for-dyeing qualities. For over-dyeing the over-dyer can be measured into the blind dyes.

Dye process:

The calibration division into groups like bright, middle, dark color or other dyestuff attributes like fastness simplifies the dyestuff selection for laboratory and production correction.

Standard:

The measurements are stored in freely definable groups, like production, final inspection, customer sample with a customer tolerance block. All applications with a standard are adjusted to the light source of their tolerance block.

Powerful recipe search:

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.

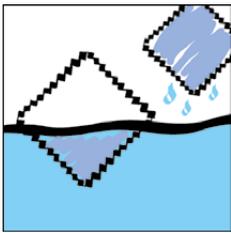
Quality for laboratory development:

The calculated recipe must match the color sample, must be metamery free, color consistent as well as inexpensive. The further intelligent graphical laboratory applications ensure that the found recipe is reproducible for production.

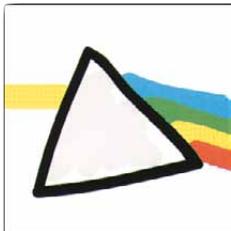
Production control:

Recipes with different samples are prepared for Pass/Fail controls for both finishing and final inspection. The production control is further supported by the integrated addition calculation. 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 makes the recipe correction, prior to a new order, easier and minimizes additions.





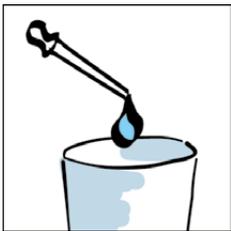
Production



Color measurement



Link to SedoMaster



Link laboratory dosing station

COLOR	CHEM	NR
1259	5967	5623
9123	2356	1012
7476	2288	1999
1010	6277	2468
5063	2601	3698
9603	3369	1917

Database access

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 (option)

Conclusion:

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. ColorMaster can be easily adapted according to the needs of new requirements.

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Technical specifications are subject to change without prior notice.

