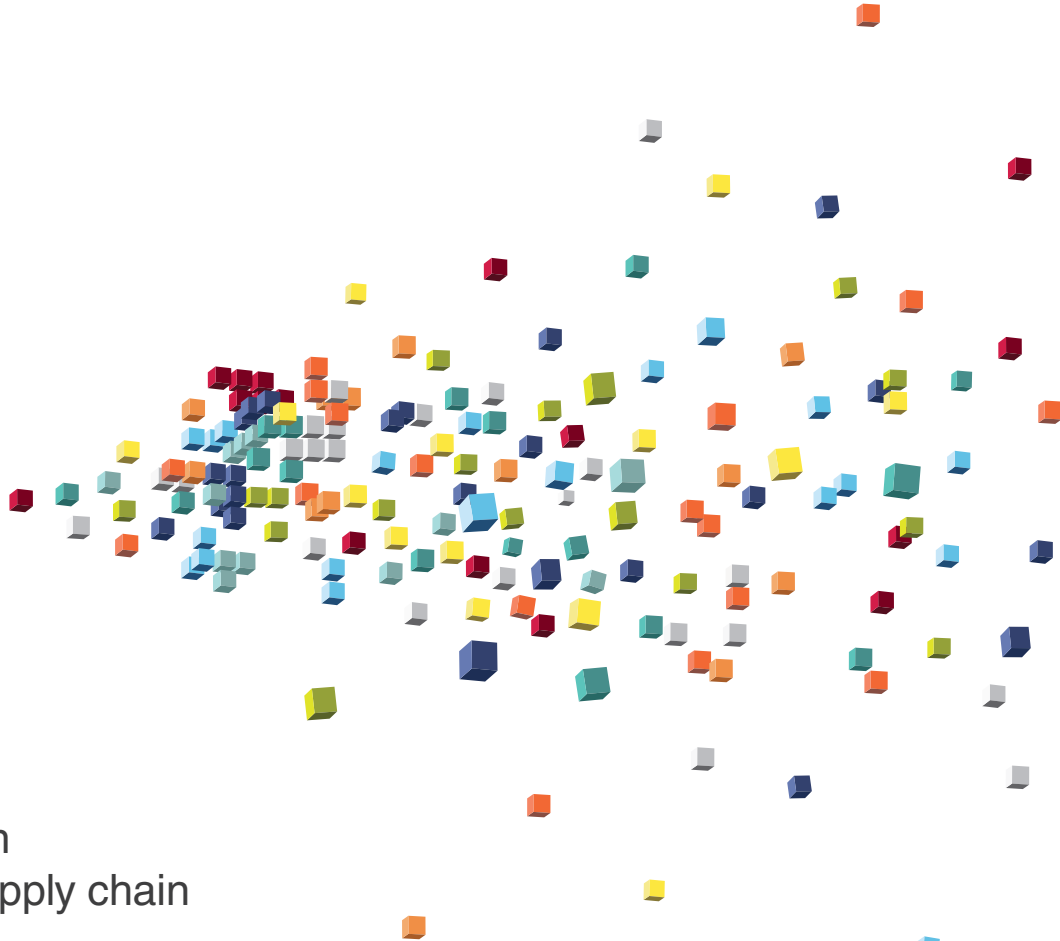




KONICA MINOLTA

Colibri<sup>®</sup> platform



One software platform  
for the global color supply chain

Giving Shape to Ideas



The Colibri® platform helps to specify, manage, formulate, produce and communicate color throughout all stages of the supply chain. With Colibri® users can have fast, secure and managed access to shared data from a central database and benefit from improved color communication, improving time to market and product quality.

### ColorSpec

For the specification of brands, designs and standards

### ColorMatch

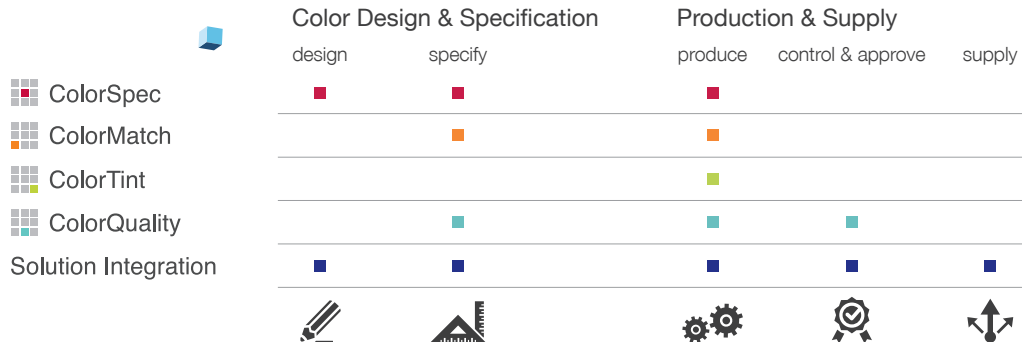
For recipe prediction of color and opacity in different applications and on a variety of substrates

### ColorTint

For dispensing of color recipes in Lab, production or at the POS

### ColorQuality

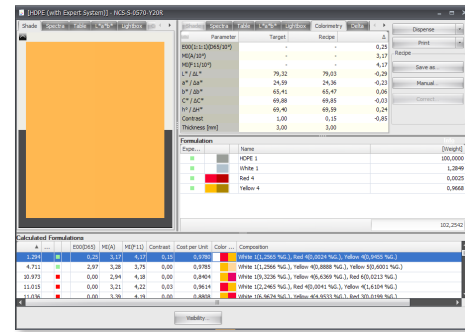
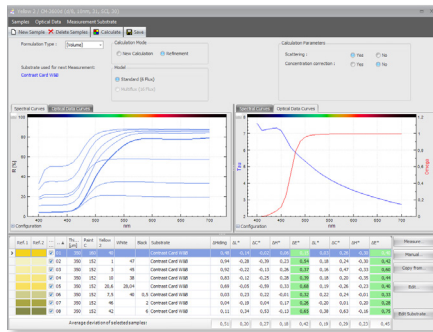
For monitoring, certification and final approval of colored products



Colibri® ColorMatch is powerful, intuitive, and easy to use. Using a proprietary algorithm, it ensures accurate matching of color and opacity of opaque, translucent and transparent colors, while reducing the number of correction steps to save waste and time. The unsurpassed accuracy of Colibri® (even for dark and saturated shades) and the straightforward correction routine helps reduce the time from match to production.

Customers can choose between four different products depending on the individual needs per installation. Later upgrades are possible should the requirements change.

All Products for ColorMatch include Quality Control and Tinting functionality, as well as the 3D Gamut Viewer allowing users to compare color collections and to discover gaps in the color space.





# ColorMatch

## ColorMatch Expert

This license includes the Colorantset Manager to store and update colorant data, calibration data and optical data for use in recipe prediction and correction. Users can easily switch between several base materials while using the same set of calibration data. Colorantsets can easily be exported for use in other Colibri® databases.

The versatile Expert System allows to define individual properties of the ingredients as base for the right pigment selection during recipe calculation.

ColorMatch Expert also offers options to calculate and store recipes for a large number of standards or entire color catalogues (Batch Recipe Calculation) using predefined Product Templates.

## ColorMatch Standard

Corresponds to ColorMatch Expert but does not contain the Batch Calculator.

## ColorMatch Light

Corresponds to ColorMatch Standard but does not contain the Colorantset Manager. This license is useful either in addition to a license of ColorMatch Expert or ColorMatch Standard, or it can be used with a Colibri® Colorantset delivered by a colorant supplier.

## ColorMatch Basic

For customers with limited requirements or seldom use of recipe calculation or correction, the ColorMatch Basic with reduced functionality can be an affordable alternative to ColorMatch Standard.

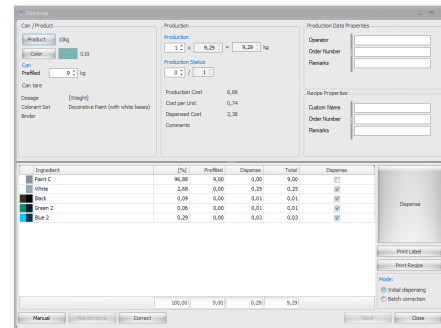
Colibri® ColorQuality enables manufacturers and their suppliers to manage and control color in the production process.

The Job function helps to organize quality control tasks, regardless of application or requirement. QC templates can be created with predefined settings to simplify workflows and prevent mistakes.

Job displays and job reports can be customized to meet all monitoring and reporting requirements. The software includes calculation of all common colorimetric values based on the standard illuminants or individually defined light sources. Tolerances can be defined based on several color difference equations linked to either the standard or the QC Job.

The 3D Gamut Viewer displays color points and hulls of color data from either color catalogues or standard collections in the CIELAB color space and allows users to compare color collections.

Customers can choose between two different products, [ColorQuality Standard](#) and [ColorQuality Basic](#), depending on the individual needs per installation. Later upgrades are possible, also to ColorMatch, should the requirements change.

The screenshot displays the ColorQuality software interface for production data. It includes a table for production data, a table for color difference data, and a summary of color difference data.

Production	Order Number	Operator
1	1	1

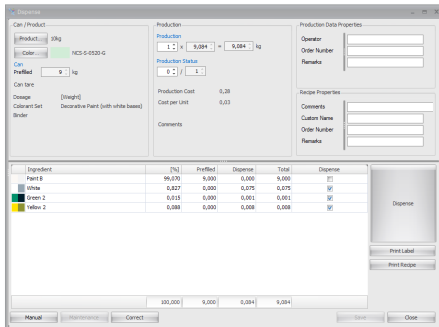
Production	Order Number	Operator
1	1	1

Ingredient	[%]	[dL]	[dL]	[dL]	[dL]	[dL]
Paint C	94.88	0.00	0.00	0.00	0.00	0.00
Black	2.68	0.00	0.00	0.00	0.00	0.00
White	0.09	0.00	0.00	0.00	0.00	0.00
Green 2	0.06	0.00	0.00	0.00	0.00	0.00
Blue 2	0.29	0.00	0.00	0.00	0.00	0.00

Colibri® ColorTint controls the dispensing of colorants on tinting machines either in the Lab, for bulk production or in smaller amounts at the POS. It helps to produce the quality expected in different amounts or can sizes and with different pre-fillings and fill levels. Interfaces to various tinting machines are available, either for volumetric or gravimetric and manually or based on recipes stored in the database. Produced amounts are saved as base for statistical analysis or for recipe correction and dispensing of batch corrections. Flexible label printing and recipe reporting is possible, based on predefined templates. Colibri® ColorTint is easy to learn, easy to use and can be operated by anyone with minimal support and training.

When using Colibri® ColorMatch for recipe prediction, having access to recipes in a central database offers time savings as data are available instantly for dispensing in production or at the POS.



**Dispense**

Car / Product: HCS-G-0520-G

Production: 1.2 \* 0.084 = 0.084 kg

Production Status: 0.2 / 1

Production Cost: 0.38

Cost per Unit: 0.03

Comments:

Car Size: [Image]

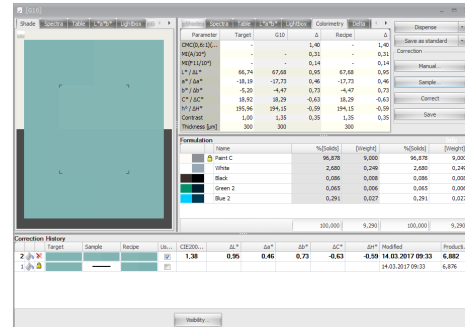
Dispense: [Image]

Decorative Part (both white base):

Ingredient List:

Ingredient	[g]	Pre-filled	Dispense	Total	Dispense
Part B	96.470	0.000	0.000	0.000	0.000
White	0.027	0.000	0.075	0.075	0.075
Green 2	0.051	0.000	0.001	0.001	0.001
Blue 2	0.001	0.000	0.000	0.000	0.000

Buttons: Dispense, Print Label, Print Recipe, Return, Correct, Close



**ColorMatch**

Parameters:

Parameter	Target	CM	Δ	Reprod	Δ
D50(2,2°)	-	1.40	-	1.40	-
M0(2,2°)	-	0.35	-	0.35	-
RP(1,0°)	-	0.14	-	0.14	-
L*	98.74	97.68	0.95	97.68	0.95
a*	-0.19	-0.73	0.46	-0.73	0.46
b*	0.30	-0.47	0.73	-0.47	0.73
C*	0.62	0.29	0.63	0.29	0.63
h°	195.96	194.15	-0.99	194.15	-0.99
Contrast	1.00	1.35	0.35	1.35	0.35
Thickness [μm]	300	300	-	300	-

Formulations:

Name	% (total)	(weight)	% (total)	(weight)
Part C	96.470	0.000	96.470	0.000
White	2.680	0.240	2.680	0.240
Black	0.000	0.000	0.000	0.000
Green 2	0.005	0.006	0.005	0.006
Blue 2	0.291	0.027	0.291	0.027

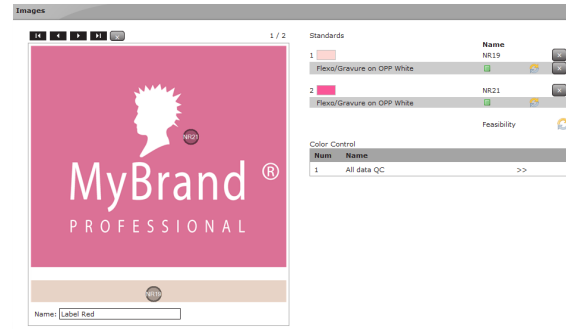
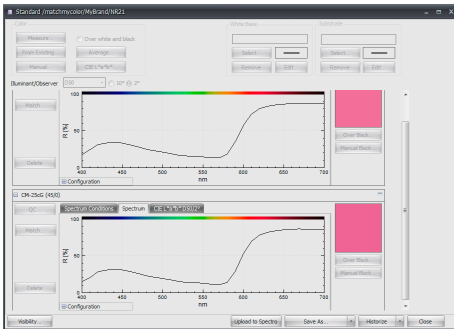
Correction History:

Target	Sample	Recipe	ΔL*	Δa*	Δb*	ΔC*	Δh°	ΔContrast	ΔThickness
2	1.38	0.35	0.45	0.73	-0.63	-0.59	14.03.2017 09:33	6.882	6.876

Buttons: Dispense, Correct, Close

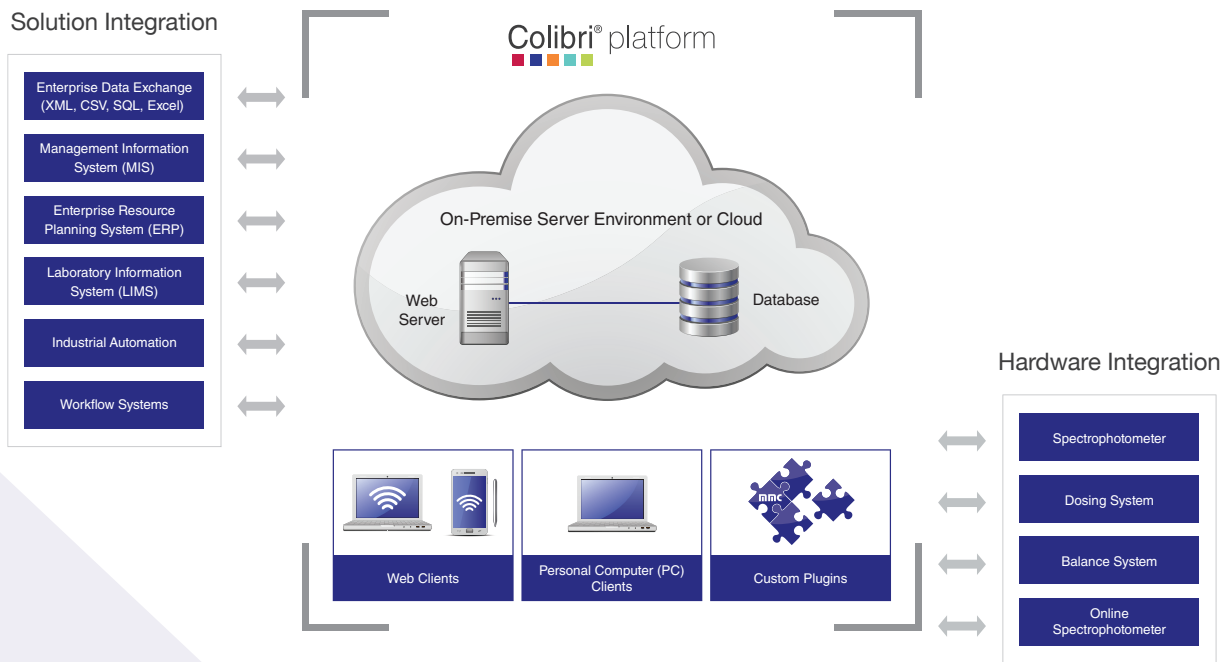
Colibri® ColorSpec enables designers, brand owners, manufacturers and material producers to use real colors in their artwork. Users can define color standards, dependent standards and related tolerances for their products and communicate these brands, designs and standards to their suppliers.

The ColorSpec features are an integral part of all ColorMatch and ColorQuality licenses but can also be beneficial as additional and separate license if managing standards has a high priority.



# Solution Integration

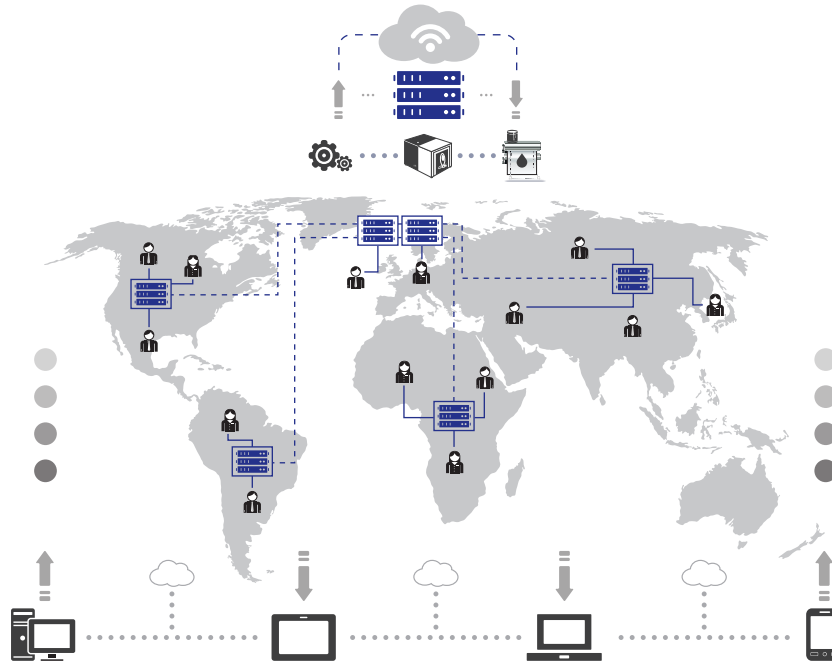
With its modern architecture and centralized data storage system, Colibri® can easily be connected with enterprise resource planning systems or any other 3rd party software using build-in or custom-developed data exchange interfaces. This allows seamless import and export of data such as color standards, recipes and Quality Control data.





# Enterprise Solution

Colibri® is suitable for single-client as well as for large global enterprise installations. Utilizing the latest technologies, the database can be hosted in the cloud or in your own network environment and can be replicated across servers. Colibri® is suitable for on-premise or web-based installation.



# More than just software

Colibri® offers features and solutions for all industries and applications, such as Paints, Plastics, Cosmetics, Ceramics and much more.

To implement and configure the software for your individual needs and in your special environment, a specialized Support Team only for Colibri® is rounding up our unique offer.

This support includes pre-sales consultancy, tests, installation, training and after-sales support and is not limited to the software itself, but also includes application support, which cannot be separated from the software.

Our Support Team consists of specialists from all main industries, as well as IT-specialists and is trained to support you in all stages of the color management process remotely as well as on-site.

The range of Konica Minolta benchtop and portable Spectrophotometers offers the right measurement device for all kind of applications. Powders, pastes, liquids and granules can be measured as well as solid samples of any size, shape, structure and opacity.

The unprecedented inter-instrument agreement as well as inter-model agreement of all Konica Minolta instruments makes it possible to exchange color data globally without compromise.

The Konica Minolta product range is rounded up by gloss and appearance meters as well as viewing booths.

Companies of world-wide reputation which have already made their choice:

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Phone: +1-888-473-2656 (in USA)  
Phone: +1-201-236-4300 (outside USA)  
Phone: +31 (0) 30 248-1193  
Phone: +49 (0) 89 4357 156 0  
Phone: +33 (0) 1 80-11 10 70  
Phone: +44 (0) 1925 467300  
Phone: +39 02 84948800  
Phone: +41 (0) 43 322-9800  
Phone: +48 (0) 71 734 52-11  
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Phone: +86-(0) 27-8544 9942  
Phone: +65 6563-5533  
Phone: +82 (0) 2-523-9726  
Phone: +66-2361-3730

marketing.SUS@konicaminolta.com

info.sensing@seu.konicaminolta.eu  
info.germany@seu.konicaminolta.eu  
info.france@seu.konicaminolta.eu  
info.uk@seu.konicaminolta.eu  
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hcn\_sensing@hcn.konicaminolta.cn  
cn\_sensing@hcn.konicaminolta.cn  
ssg@konicaminolta.sg  
sensing-gc@konicaminolta.jp  
sensing-gc@konicaminolta.jp

Addresses and telephone numbers are subject to change without notice. For the latest contact information, please refer to the KONICA MINOLTA Worldwide Offices web page:  
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