

Digistar Bellagio

Reactive digital inks for direct printing

JK Group plays a central role in the digital textile market and is a point of reference for the development, production and sale of dye-sublimation inks. The endless attention to innovation along with vanguard technologies and capable technical know-how drive JK Group' actions in the markets.

JK Group operates worldwide through 3 commercial brands, designing advanced printing solutions matching the present and future expectations of the digital printing Industry.

Since its foundation in the Como district, Kian Digital (one of JK Group's commercial brands) has designed and crafted digital inks for the textile industry. Thanks to its attitude to put forward radical innovation, it has been able to respond to the digital printing challenges, becoming a benchmark. Kian Digital has moved its passion for "high quality" in its product portfolio: dye-sub, disperse, pigment and reactive inks designed for the Industrial textile market.

REACTIVE Inks



Reactive inks are chemically related to the cellulosic substrates. They are mainly used to print cotton, linen, viscose with whom they create a chemical bond (covalent bond between ink's reactive groups and hydroxyl groups of cellulose fiber). Thanks to this chemical bond they assure high general fastness.

Reactive inks are mainly used to print fabrics designed for: home textile, interior decoration, fashion apparel and accessories.



PRINTING
FABRICS DESIGNED
FOR HOME TEXTILE
& DECORATION

PRINTING
FASHION APPAREL
AND ACCESSORIES

PRINTING
ONTO COTTON,
LINEN AND VISCOSE

Technical Information

Chemical Nature
Reactive

Printheads
Kyocera

Where
Direct Printing onto cellulosic fibers (cotton, linen, viscose, etc.)

Features
Outstanding bright and vivid colors

High printability and reliability with industrial printing systems, limiting the downtime for cleaning operations

The selection conducted on the dyes allows to reproduce a wide range of colours (colour gamut)

The production processes' simulations, carried out during formulation, make it possible to fully exploit the high-productivity of the printing systems, constantly ensuring the high-definition of the prints

High general fastnesses: light-, washing- and perspiration-fastness

#Kyoceraprintheads



Digistar BELLAGIO R



Packaging 10 kg

Series specially developed for direct printing onto fabrics for apparel (Fast Fashion)

Series dedicated to Home Textile & Fashion markets

High concentrated inks offering very bright colours and great performance in the industrial printing

The blacks within the range are **neutral**

Blacks



Digistar BELLAGIO RCS



Packaging 10 kg

Series specially developed for direct printing onto cellulosic fibres, like cotton, viscose and silk

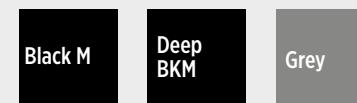
Series dedicated to Home Textile, Fashion & Accessories markets

Colours have a high definition for the best performance on the industrial machines

DEEP BKM has a higher concentration

The blacks within the range are **bluish**

Blacks



Digistar BELLAGIO RB



Packaging 10 kg

Series developed for direct printing onto cellulosic fibres, like cotton and viscose

Colours are consistent and highly concentrated

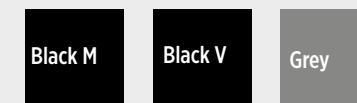
BLACK V has been developed for offering higher intensity, colour depth and brightness

The blacks in the range:

BLACK M (**reddish**)

BLACK V (**bluish**)

Blacks



Colours within the range



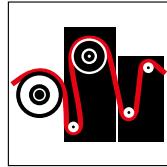
Printing Process

Digistar Bellagio Reactive digital inks for direct printing

#Fashion

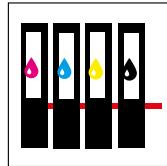
#Interiordecoration

PRE-TREATMENT



1 Printing by reactive inks, pre-treatment is crucial to activate the chemical reaction between inks and fabrics. This reaction ensures: dot-gain control, prints' definition, colour yield and printing quality.

PRINTING



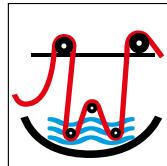
2 Digistar Bellagio has been developed for direct printing with machines equipped with Kyocera print heads. Digistar Bellagio guarantees high printability and reliability with Industrial printing systems, limiting the downtime for cleaning operations.

STEAMING



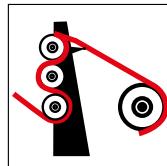
3 Steaming must be carried out in saturated steam [100-102°C for 10-15 min.] to develop the chemical bond between reactive ink and cellulosic fiber. The reaction is activated thanks to the chemical auxiliaries used in the pre-treatment.

WASHING



4 The washing step [water and detergent 80-90°C] is mandatory to remove the ink and the pre-treatment chemicals that did not react during the steaming. Washing ensures the achievement of colours' brightness and high general fastnesses.

FINISHING



5 Finishing can be mechanical or chemical. They are different and depend on the final use and/or the final desired effect.



Why to print with reactive inks

Reactive inks create a chemical bond with the cellulosic substrate. This bond ensures: vivid and bright colours, high general fastnesses and soft-touch.

#Digitalinks



JK GROUP SPA

Italy
JK GROUP SpA
SP32 Novedratese, 33
22060 Novedrate (CO)
P +39 031 2074400
info@kiiandigital.com

USA
JK GROUP USA Inc.
106 Industrial Park Drive,
Soddy Daisy, TN 37379
P +1 (423) 486 9376

China
KILIAN DIGITAL Inks
(Shanghai) CO.,LTD
6 Fl, Bldg. D, Suite 603,
New Bund World Trade Center (Phase II)
N. 6, lane 227, Dongyu Road,
Pudong New District,
200126 Shanghai, China
P + 86 21 60812890 / 88

www.j-k-group.com