



Digital
Sublimation Inks

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's 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.

Digital SUBLIMATION INKS



The sublimation ink technology is based on the property of certain dyes to sublimate at warm temperature and to permanently colour textile fibers or synthetic materials with which they are in contact during sublimation. The application of the inks is made by means of inkjet printing on sublimation paper followed by drying, coupling with the support on which you want to get the color effect, and heat transfer of the color, by means of a calender or a flat press. In case you want to decorate rigid materials which, by their nature, are not consistent with sublimation inks, you must apply a pre-coating on the surface you want to decorate.



**PRINTING
OF SPORTSWEAR
AND SPORTS
EQUIPMENT**

**PRINTING
OF HOME TEXTILE,
FASHION
AND ACCESSORIES**

**PRINTING
OF PROMOTIONAL ITEMS,
FLAG & BANNER
AND CURTAINS**

Technical Information

#EPSON

Compatible with DX3, DX4 and DX5 printheads

Digital
SUBLIMATION INK FOR
TRANSFER PRINTING

Digistar PES HD ONE



Packaging 1 - 2 L

TRANSFER PRINTING

Sportswear, promotional items, curtains, flag & banner, interior decoration

Ideal for transferring onto synthetic fabrics (polyester) and onto rigid substrates (pre-treated)

WHY TO CHOOSE IT

The chromatism: colour brightness and extent, allowing the reproduction of a wide colour space during profiling

The good images quality: obtained thanks to the advantageous compromise among colour saturation, outline definition and release while transferring

The reliability: the perfect balance achieved during the years between ink and printheads allows long runs and repeated results over time

The blacks

Black Plus

Deep Black

Colors within the range

CMYK

Light CM

Fluo BPYG

Orange

Blue

Turquoise

Gray

Digistar HI-PRO



Packaging 1 L

TRANSFER PRINTING onto light and/or low coated papers

Sportswear, interior decoration and fashion

Ideal for transferring onto synthetic fabrics (polyester) and onto blended fibres (min 80% PES)

WHY TO CHOOSE IT

Industrial production: ideal on medium and large format machines, it fully exploits their productive capacities

Drying speed: this is the result of a study conducted on the combination of next generation plotters and untreated papers; allowing the enhancement of its performances compared to the standard parameters

Chromatism: colour extension and brightness, allowing the reproduction of a wide colour space during profiling

The blacks

Black

Deep Black

Black Plus

Colors within the range

CMYK*
*Eco K

OEKO-TEX®
CONFIDENCE IN TEXTILES
ECO PASSPORT
17EP00002 CERTIFICOAT
Textile chemicals. Tested and verified.
www.oeko-tex.com/ocpassport

Light CM

Fluo BPYG

Orange

Blue

#EPSON

Compatible with DX7 printheads (and previous ones)

#Transferprinting

#Sublimation



#PRINTHEADS EPSON

DX7 and previous ones



Digistar DISPLAY



Packaging 1 L

DIRECT AND TRANSFER PRINTING

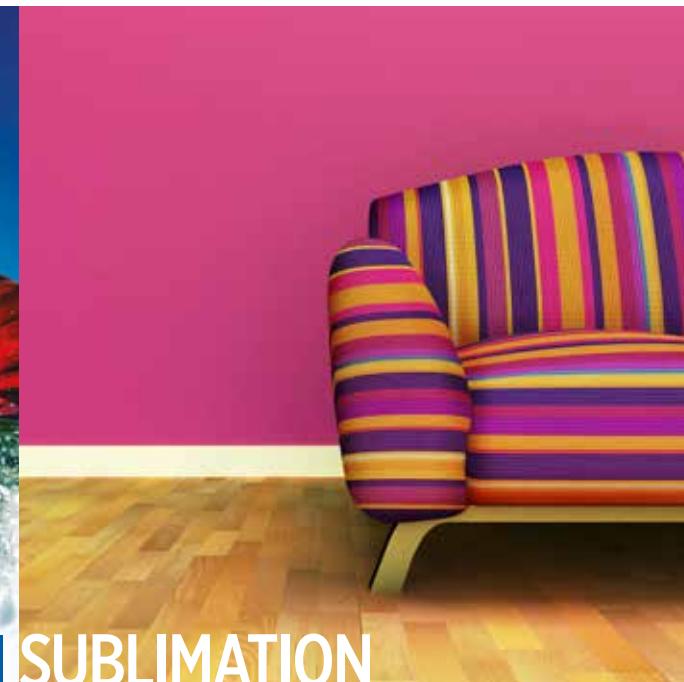
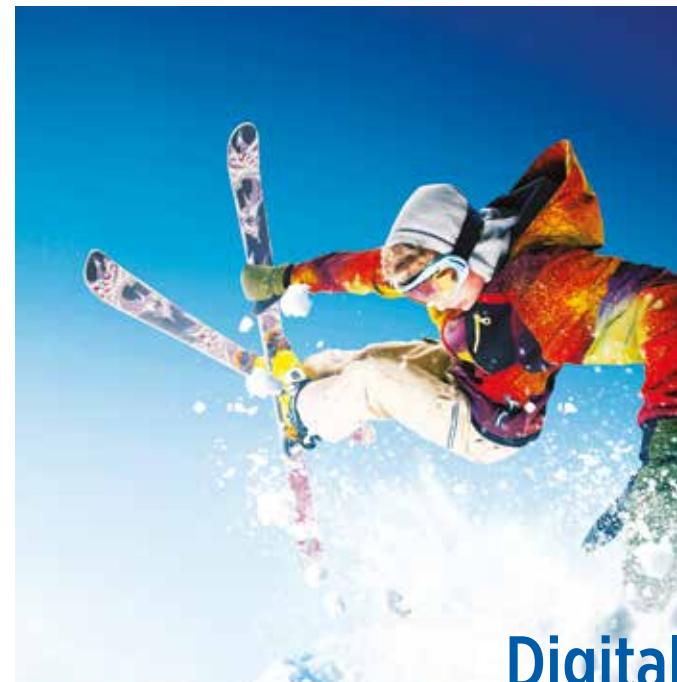
Ideal for **direct printing** onto synthetic fabrics (polyester) and for **transfer printing** onto synthetic fabrics (polyester) and blended fibres (min 80% PES)

WHY TO CHOOSE IT

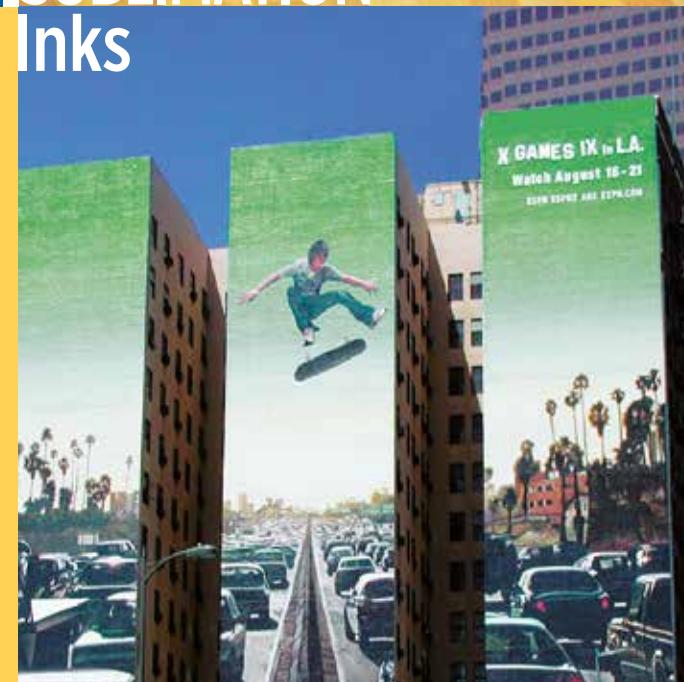
Excellent performance in direct printing

Application versatility: printing both directly and transfer halves the stock management costs

Colors within the range



Digital SUBLIMATION Inks



#PRINTHEADS RICOH



DIGISTAR GEN-R



Packaging 5 Kg

TRANSFER PRINTING

Sportswear, promotional items, banners and interior decoration

Ideal for transferring onto synthetic fabrics (polyester) and onto blended fibres (min 80% PES)

WHY TO CHOOSE IT

Multipurpose: it is possible to print onto various substrates for the most different uses

Drying quickness: excellent for long runs; it allows the processes standardization, reducing the operating costs

Good image quality: obtained thanks to the advantageous balance among color saturation, outlines definition and release (transfer) capacity

Colors within the range



DIGISTAR AIR



Packaging 5 Kg

TRANSFER PRINTING onto light and/or low coated papers

Sportswear and interior decoration

Ideal for transferring onto synthetic fabrics (polyester) and onto blended fibres (min 80% PES)

WHY TO CHOOSE IT

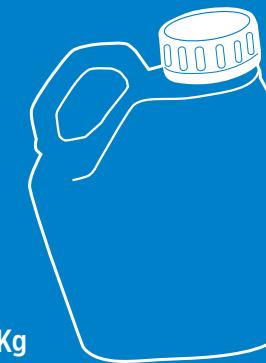
Drying quickness: excellent for long runs; it allows the processes standardization, reducing the operating costs

Chromatism: colour extension and brightness, allowing the reproduction of a wide colour space during profiling

Colors within the range



DIGISTAR TUNE



Packaging 5 Kg

DIRECT PRINTING

Flag & Banner, backlit decoration, large format advertising e outdoor decoration

Ideal for direct printing onto synthetic fibres (polyester)

WHY TO CHOOSE IT

High light fastness of the prints
High duration of outdoor exposure
High rubbing fastness (if post-treated)

The perfect balance between the brightness of the colours and the general fastness makes it possible to create eye-catching and durable prints for outdoor decorations

Colors within the range





Digistar K ONE

Packaging 5 Kg

Colors within the range



#KYOCERA

#Transferprinting

#Sublimation

TRANSFER PRINTING

Sportswear, fashion, promotional items and interior decoration

Ideal for transferring onto synthetic fabrics (polyester) and onto blended fibres (min 80% PES)

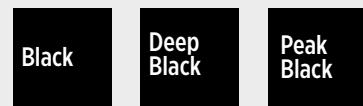
WHY TO CHOOSE IT

It is possible to print onto various substrates for the most different uses

Ideal on large-format printers, it fully exploits their productive capacities

Drying quickness: excellent for long runs; it allows the processes standardization, reducing the operating costs

The blacks



#PANASONIC

Printheads



DIGISTAR SUBLI-SONIC

Packaging 5 Kg

TRANSFER PRINTING

Sportswear, promotional items, curtains, flags & banners and interior decoration

Ideal for transfer printing onto synthetic fabrics (polyester)

WHY TO CHOOSE IT

Drying quickness of the printed paper

Bright and vivid colors, allowing the reproduction of a wide colour space during profiling

Multipurpose: it is possible to print onto various substrates for the most different uses

Colors within the range



#PANASONIC

Printheads



DIGISTAR T-SONIC

Packaging 2 L

TRANSFER PRINTING

Sign & display, fashion, sportswear, flag & banners and interior decoration

Ideal for transferring onto synthetic fabrics (polyester) and onto blended fibres (min 80% PES)

WHY TO CHOOSE IT

Very vivid and bright colors allowing to achieve a wide color-space during profiling and to enlarge endlessly colors shades reproducibility

High color concentration, allowing to reproduce even smallest details offering high-quality prints results

Outstanding printability in any printing conditions, providing best value for money and efficiency

Colors within the range



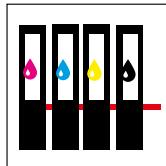
Printing Process



Digital SUBLIMATION INKS

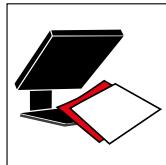
Transfer printing

INKJET PRINTING



1 It is recommended to let the product reach operative conditions in terms of temperature and humidity at least 24 hours prior to use, taking care not to stir it.

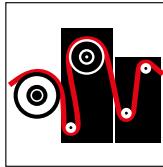
TRANSFERRING



2 The printed paper must be transferred hot, through calender or flat press. Time and temperature may vary, depending on the type and nature of the material, which the transfer is made onto.

Direct printing

PRE-TREATMENT



1 To obtain particularly sharp images and a high details' definition, it is necessary to pre-treat the fabric, generally by impregnation with a foulard.

INKJET PRINTING



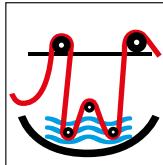
2 It is recommended to let the product reach operative conditions in terms of temperature and humidity at least 24 hours prior to use, taking care not to stir it.

DRY HEAT or STEAM



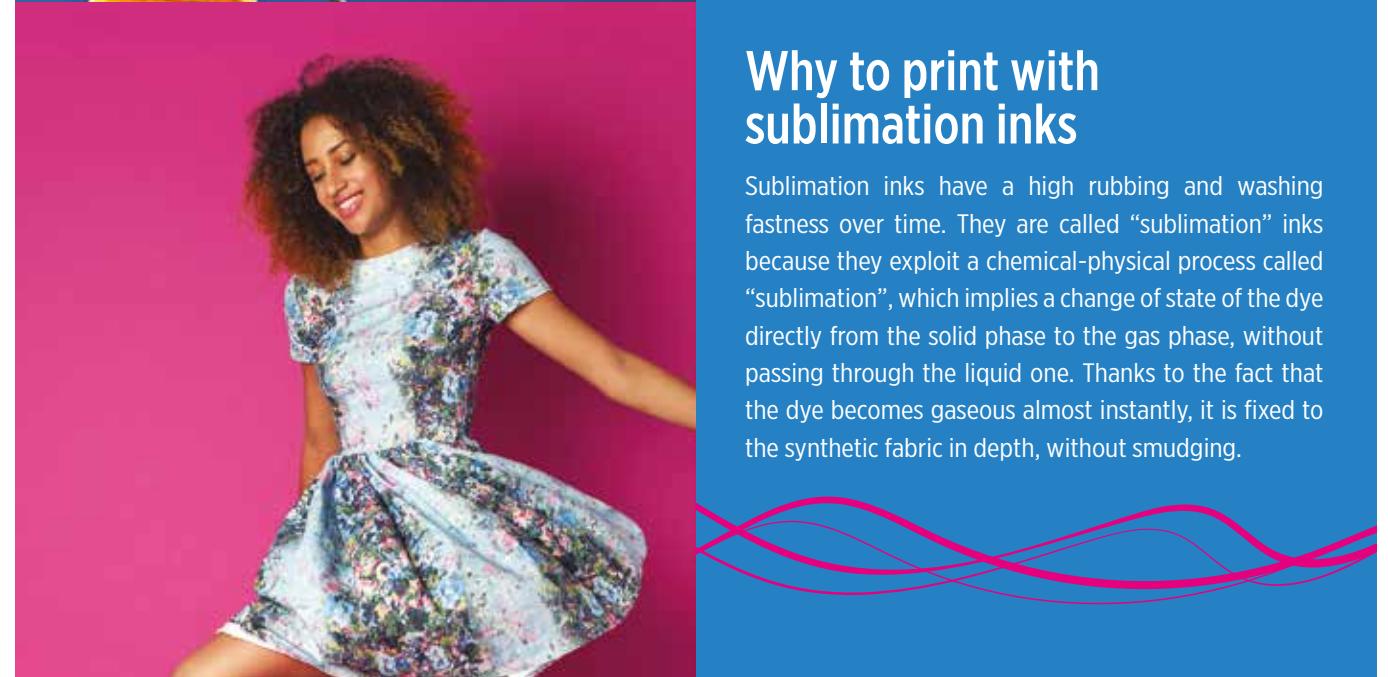
3 The heat fixing can be IN LINE (calender or flat press) or through VAPORIZING (steam).

STRIP & WASH



4 The final washing is important to improve the touch and the color fastnesses. It is generally carried out in three steps: PRE-WASHING, STRIPPING and RINSING.

Often, the above described operations (except for the final washing) are concentrated into one single step, thanks to the use of specific plotters, dedicated to the textile industry, which are equipped with specific in-line fixing units.



Why to print with sublimation inks

Sublimation inks have a high rubbing and washing fastness over time. They are called “sublimation” inks because they exploit a chemical-physical process called “sublimation”, which implies a change of state of the dye directly from the solid phase to the gas phase, without passing through the liquid one. Thanks to the fact that the dye becomes gaseous almost instantly, it is fixed to the synthetic fabric in depth, without smudging.

#Sustainability

Sustainability is an aptitude

JK Group has always believed in a sustainable printing approach, for this reason it has chosen to be compliant to International and European (Reach) regulations and directives related to chemicals hazards and to the most well-respected textile standards of a sustainable production chain. We are committed to achieving this goal by means of a team devoted to the study of legislation to be always in line with the evolution of the potential risks' classification inherent to the use of the inks, giving clear and transparent information to our clients.

#Reliability

Reliability is our signature. It's how we ensure both printing systems' regular operation and production efficiency. We have engineered a forefront plant in terms of both automation and structural design and we have set up an advanced process monitoring system to ensure reliability, making our clients' choices more profitable.

K//AN
DIGITAL

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