



NEENAH COLDENHOVE

WHEN PAPER **MEETS...**

■ **Digital** Sublimation
Transfer Paper

ABOUT NEENAH COLDENHOVE

Neenah Coldenhove is the product leader in the Digital Transfer Paper industry and one of the oldest paper mills in the Netherlands. It has been founded in 1661 and has operated its business for over three centuries. Since the advent of digital sublimation paper in 1998, Neenah Coldenhove has played a leading role in the digital sublimation industry where innovation is crucial.

NEENAH COLDENHOVE SUBLIMATION PAPER

Digital sublimation transfer printing is a spectacular innovation in the digital graphic industry. The possibilities of this technology stimulate a variety of new applications. Our paper guarantees impressive reliability of the color rendering and the sharpness of patterns as well as a high level of runability and transfer yield. It allows printing companies to achieve consistent quality, brilliant colors, flawless blotches and geometric or organic patterns for their collections – resulting in satisfied end consumers.

NEENAH COLDENHOVE TRANSFER PAPER **ADVANTAGES**



Highest ink transfer % for brilliant colors

Neenah Coldenhove uses the most advanced coating available and is worldwide patented. The paper is designed to release the dyestuff from the ink as much as possible during sublimation process, resulting in brilliant colors. This makes the high ink load possible that is needed to meet the specific requirements of the business. Based on the knowledge of coatings, application specific paper have been developed to support your printing needs.



Consistent product quality for color calibration

Our papers are equipped with special coatings which enable you to transfer 97% of the ink on to polyester textiles. This results in a substantial ink reduction. The coating is applied inline. Therefore Neenah Coldenhove can guarantee an unravelled consistency leading to calibrated color for each different run.



Highest runability for higher production efficiency

Neenah Coldenhove has been there from the outset of digital sublimation paper. This is why we have more in depth knowledge of the whole printing process and interaction with the paper than anyone. The support and service we can give to printers worldwide is unmatched and makes your printer productivity go up. This results in less waste and the lowest costs per meter.



Most sustainable printing solution to achieve sustainable collections

Neenah Coldenhove's sublimation papers are 100% FSC certified, from recyclable pulp to end roll, the entire process happens in our factory on our own premises.

In addition to that the paper products of Neenah Coldenhove have been approved by well-respected companies to be used for Blue Sign and OEKO TEX certified collections. Neenah



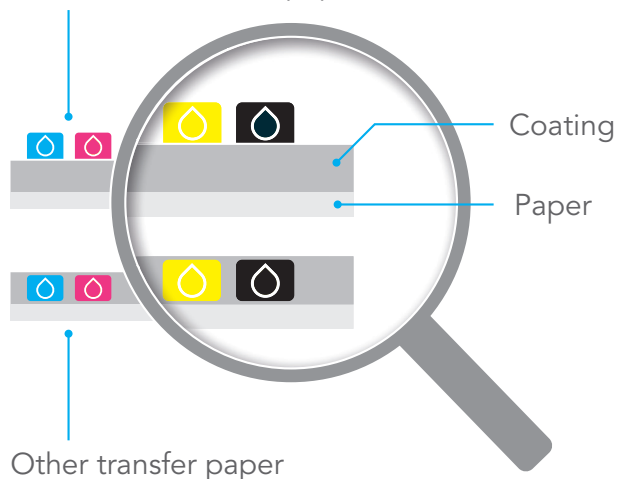
THE NEENAH COLDENHOVE TECHNOLOGY

The dye sublimation process allows dye particles to transform from a solid state into a gaseous state and sublimates a printed image from the transfer paper onto a substrate while in the transfer press. This results in the molecular chains of the polyester opening. The dye particles, in gaseous form, can now permeate the polyester or mixed polyester textile. Thanks to this high-tech process, printing can take place in a variety of applications such as fashion, sportswear, home furnishing and signage. It enhances trends as short run production and customisation and lets the textiles shine with brilliant, long-lasting colors.

Neenah Coldenhove

Sublimation transfer paper

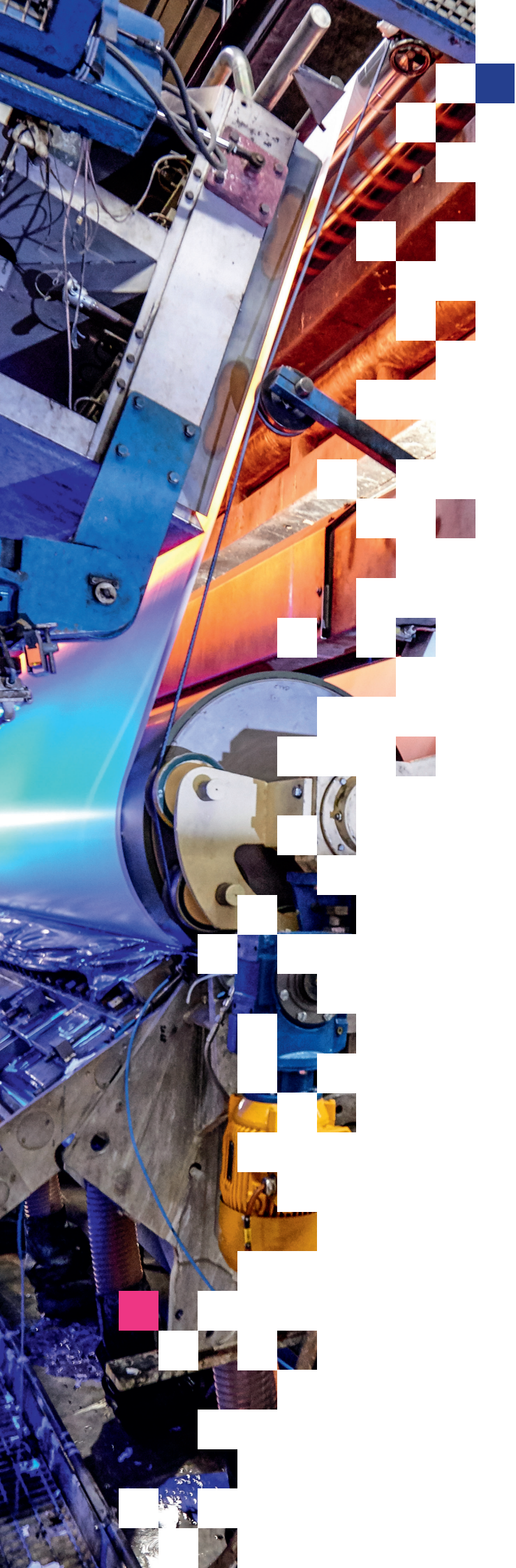
Patented



The innovation and development department is working continuously on the optimization of the portfolio of Neenah Coldenhove creating new and optimized products. Neenah Coldenhove complies with all Dutch and European environmental legislation and requirements for paper production.

SUBLIMATION PROCESS





OUR PRODUCTS

Jetcol® The original

The Neenah Coldenhove "Original" dye sublimation paper assortment can be characterized by its diversity. Diversity in paper thickness, diversity in the ability to handle ink quantities without cockling, diversity in roll widths but only characteristic always remains; a consistent quality. You know what you can expect from a Neenah Coldenhove "Original" and this paper will do exactly where you purchased it for!



Widest range of grades and sizes



Highest quality

Jetcol® Industrial

The industrialization of the dye sublimation market led to the introduction of high speed industrial plotters and single pass printers with Kyocera heads and matching sublimation inks. It resulted into new technological demands for sublimation papers. In answer to these needs, a tailor made assortment has been developed. In close cooperation with leading printer- and ink producers in the market, we developed the Jetcol® Industrial sublimation papers. The Jetcol® Industrial papers are dedicated to high speed production and higher glycol inks. With more meters on a roll, you will be able to generate a perfect quality, at lowest cost of use.



Jumbo reels



High speed

Jetcol® Special

The Neenah Coldenhove "Specialties" are developed to face the challenges that all printjobs sometimes have. The "Specialties" can contribute if you are looking for a faster drying paper, if you want the textile and paper to adhere during the sublimation process, if you are sublimating on a very closely knitted/stretchy textile which may cause some issues, if you sublimate on rigid materials or you just have to use a lot of ink to reach the required colours. Neenah Coldenhove has a dedicated paper grade for all applications which will make you live as a paper printer much easier.























































Special features



Raises the bar on standards

CHOOSE YOUR OWN...

Product Group	JETCOL® THE ORIGINAL		JETCOL® INDUSTRIAL		JETCOL® SPECIAL	
USP	Widest range of grades and sizes	Global standard	High speed	Industrial segment	Special features	Raises the bar on standards
Compatible printers	Plotter printers, including but not limited to: Epson, Mimaki, Mutoh, Roland, etc.		Industrial printers, including but not limited to EFI Reggiani, MS Italy, DGI, Durst, La Meccanica		Plotter printers, including but not limited to DGI, Epson, Mimaki, Mutoh, Roland Industrial printers, including but not limited to EFI Reggiani, MS Italy, Durst, La Meccanica	
Compatible inks	Water based		Water based		Waterbased Oil solvent	

JETCOL® HTR 1000 <ul style="list-style-type: none"> More meters/yards on a roll Good drying speed Easy handling on calander 	JET-X® <ul style="list-style-type: none"> One product for all applications More meters/yards on a roll Highest transfer yield 	JETCOL® TA <ul style="list-style-type: none"> Adhesive paper Suitable for various of elastic fabrics Avoids ghosting and shadow lines
  GSM 66 Ink coverage  Transfer yield  Dry speed 	  GSM 57 Ink coverage  Transfer yield  Dry speed 	 GSM 85 / 105 Ink coverage  Transfer yield  Dry speed 
JETCOL® HTR 1100 <ul style="list-style-type: none"> More meters/yards on a roll Good drying speed Easy handling on the calander 	XTREME® <ul style="list-style-type: none"> High ink coverage Contour sharpness 	JETCOL® HIGH SPEED <ul style="list-style-type: none"> Excellent drying speed High rub resistance of printed paper Available in wide range of specifications
  GSM 64 Ink coverage  Transfer yield  Dry speed 	  GSM 66 Ink coverage  Transfer yield  Dry speed 	  GSM 95 Ink coverage  Transfer yield  Dry speed 
JETCOL® HTR 3100 <ul style="list-style-type: none"> High print stability High transfer yield Suitable for higher ink volume 	XTREME® DRY <ul style="list-style-type: none"> Revolutionary drying speed Suitable for closed knitted textiles Anti-rivring 	JETCOL® DHS <ul style="list-style-type: none"> Ink savings upto 40% Transfer time reduction up to 50% Larger color gamut
  GSM 90 Ink coverage  Transfer yield  Dry speed 	  GSM 70 Ink coverage  Transfer yield  Dry speed 	 GSM 120 Ink coverage  Transfer yield  Dry speed 
JETCOL® HTR 3500 <ul style="list-style-type: none"> Suitable for closely knitted textiles Anti-rivring Easy handling on printer and calander 	XTREME® LIGHT <ul style="list-style-type: none"> More meters/yards on a roll High transfer yield Low transportation costs of printed paper* 	
  GSM 105 Ink coverage  Transfer yield  Dry speed 	 GSM 45 Ink coverage  Transfer yield  Dry speed 	
JETCOL® HTR 4000 <ul style="list-style-type: none"> High drying speed Suitable for hard substrates Stays flat under high ink volumes 		
  GSM 140 Ink coverage  Transfer yield  Dry speed 		

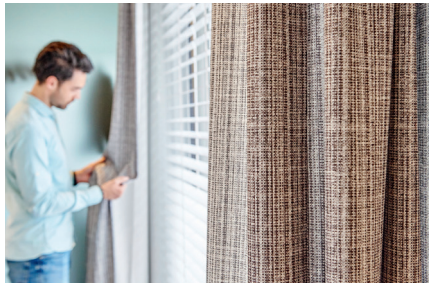
*Only available under specific terms & conditions

YOUR MARKETS



Fashion

The 'fast-fashion' market is rapidly growing and arose by the new generation of superfast digital printers which allows companies worldwide to produce at competitive total cost of use. Neenah Coldenhove offers special developed paper grades. These papers will allow you to service this market where high speed and high consistency are key words. ■ **Jetcol® HTR 1000** ■ **Jet-X®** ■ **Xtreme®** ■ **Xtreme® Light**



Home furnishing

This market is a fast growing part of the digital dye sublimation paper printing with end applications as pillows, blankets and curtains. Your order quantity can go as low as one piece or up to thousands of pieces and that the printing widths have a lot of variations. Neenah Coldenhove has developed tailor-made papers for this market. ■ **Jetcol® HTR 1000** ■ **Jetcol® HTR 1100** ■ **Jetcol® HTR 3100** ■ **Jetcol® HTR 3500** ■ **Jet-X®** ■ **Xtreme® Dry** ■ **Jetcol® High Speed**



Sportswear

Sportswear is the traditional market for digital dye sublimation paper printing. Neenah Coldenhove has met the demands of sportswear printers with dedicated paper grades from day one. The colours and contour sharpness are optimal and the digital sublimation paper printing is perfect for the personalization of sports garment. ■ **Jetcol® HTR 1100** ■ **Jetcol® HTR 3100** ■ **Jetcol® HTR 4000** ■ **Xtreme®** ■ **Jetcol® TA** ■ **Jetcol® High Speed**



Signage

This highly quality market defines itself by vibrant colours, very detailed- and mostly large format prints. In addition, flags and exhibition backdrops are also part of this market. Neenah Coldenhove offers you paper grades for any printer/ ink combination allowing you to print flawless and with results that will exceed your customers' expectations. ■ **Jetcol® HTR 1000** ■ **Jetcol® HTR 1100** ■ **Jetcol® HTR 3100** ■ **Jetcol® HTR 3500** ■ **Xtreme® Dry** ■ **Jetcol® High Speed** ■ **Jetcol® OS**



Hard substrates

This market can be divided in the market for personalized consumables like mugs, tiles, phone covers and a separate market for industrial applications like aluminium Chromalux panels. These markets have several different characteristics but also one distinctive similarity; the boundless creativity which results in extraordinary colourful products. ■ **Jetcol® HTR 4000** ■ **Jetcol® High Speed** ■ **Jetcol® DHS**

CUSTOMER EXPERIENCES

1. Inside Blinds, Belgium

Since 1992 Inside Blinds, a family owned and operated company in Roeselare, Belgium, has been producing quality window blinds. An international market leader in high quality textile roman blinds, they also produce curtains, panel curtains, roller blinds and wooden blinds. Since the very beginning they have been using Neenah Coldenhove Jetcol® HTR1000 digital transfer paper.

"We have never had the need to switch to another paper provider," explains Filip Duyvejonck, COO at Inside Blinds. "Jetcol® HTR1000 works flawlessly in our process. Even though we operate within a classic industry, textile, we continue to produce new and innovative products. Neenah Coldenhove always keeps up with our growth, by delivering the right paper for any printer/ink combination. Today, next month, next year, the quality of the product remains stable; an important aspect for a textile company like Inside Blinds." Reliable delivery is another major reason Inside Blinds chooses to continue using Neenah Coldenhove products. "Neenah Coldenhove is always consistent with their deliveries", Continues Duyvejonck, "We order on-call. This means that one day after we have received a delivery of Neenah Coldenhove paper rolls, we order another batch of digital transfer paper rolls. Four weeks later that delivery arrives, ready for use. Neenah Coldenhove continues to offer us tailored roll lengths of Jetcol transfer paper, delivered on time."

In short, we see Neenah Coldenhove as a highly reliable paper supplier who continues to ensure the quality of the paper at all times."



2. Creazioni Digitali, Italy

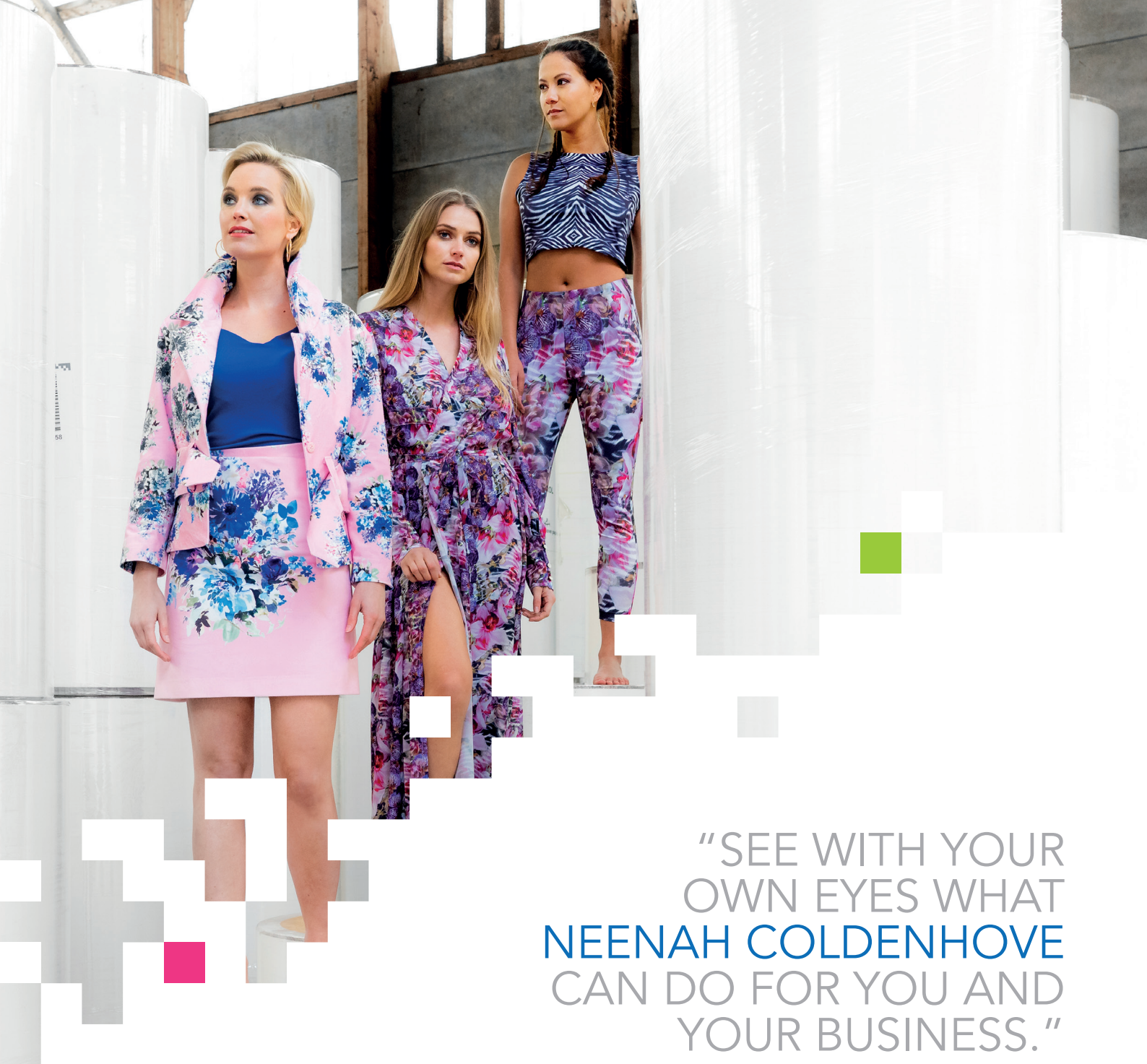
Creazioni Digitali was born on February 2006 in Como thanks to the intuition of its founder Mr. Roberto Lucini who was a firm believer in digital sublimation printing. Strong production capacity and a strong will to innovate led Creazioni Digitali to be a leader and one of the first digital reality in Como. "The secret of our textile printing success? Neenah Coldenhove sublimation paper!"

The main business of Creazioni Digitali is printing textiles for the fashion industry. "Our philosophy is to use excellent products to provide our customers qualitatively indisputable results, therefore we selected Neenah Coldenhove's Jet-X® for our production".

The fashion market is currently developing as a market full of fast printers where drying speed is crucial, Neenah Coldenhove papers allow us to achieve that speed and consistency we are looking for, while maintaining high transfer yield.

Innovation, research and development have always been a fundamental part of our business philosophy, these are the added values we require for our suppliers and that we found in Neenah Coldenhove."





"SEE WITH YOUR
OWN EYES WHAT
NEENAH COLDENHOVE
CAN DO FOR YOU AND
YOUR BUSINESS."