Durst Phototechnik AG

The industrial inkjet specialist

Market development

Durst Phototechnik was founded in 1936 and in these 75 years went through 6 phases:

1935 1940 1950 1960 1970 1980 1990 2000 2010

Analog Foto Segment

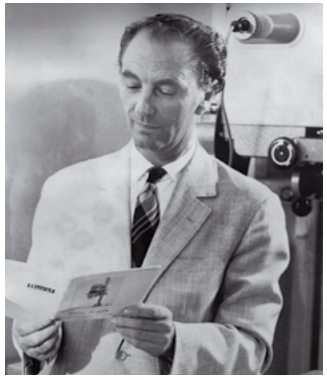
Digital Foto Segment
(1995-2006)

Large Format Printing
(since 2001)

Ceramic Printing
(since 2004)

Label Printing
(since 2009)

Textile Printing
(since 2010)



Julius Durst

Markt Segments

Large Format Printing
(since 2001)

- Roll-to-Roll UV Inkjet Printer
- Flatbed UV Inkjet Printer

Applications:
signage, billboards, luminous columns, shop displays, banners, flags, wallpaper, glass facades, packaging, road/street signs

Ceramic Printing
(since 2004)

High Performance Digital Ceramic Printing Systems

Applications:
ceramic tiles, laminated flooring, furniture, skirting boards and profiles

Label Printing
(since 2009)

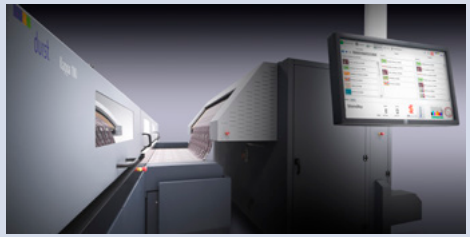
Digital UV Inkjet Label Press designed for short and medium run narrow web applications

Applications:
self-adhesive labels, converting & finishing

Textile Printing
(since 2010)

High Performance Inkjet digital printer for the textile industry

Applications:
apparel, home textile, display (indoor/outdoor), technical textiles



Technicon AG

Durst Phototechnik AG
Vittorio-Veneto-Strasse 59
39042 Brixen, Italy

Administrator: Dr. Richard Piock

Durst Phototechnik
Digital Technology
GmbH
Julius-Durst-Straße 11
9900 Lienz, Austria

alupress

Alupress AG
Kravogl Strasse 2
39042 Brixen, Italy

Administrator:
Dipl. Ing. Franz Wunderer

	Sector
Technicon AG	Investments
Durst Group	Highly specialized individual solutions for processing digital images in the photographic and printing sector
Alupress Group	Production and treatment of aluminum pressure castings, primarily for the automobile industry

Offices

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94656 Rungis Cedex

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39042 Bressanone (BZ)

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Durst Image Technology GmbH Deutschland
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Deutschland

Molander Sign & Display AB
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181 70 Lidingö, Sweden

Durst do Brazil Technologia Em Impressao Digital Ltda.
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São Paulo, SP Brazil

Durst Canada Inc.
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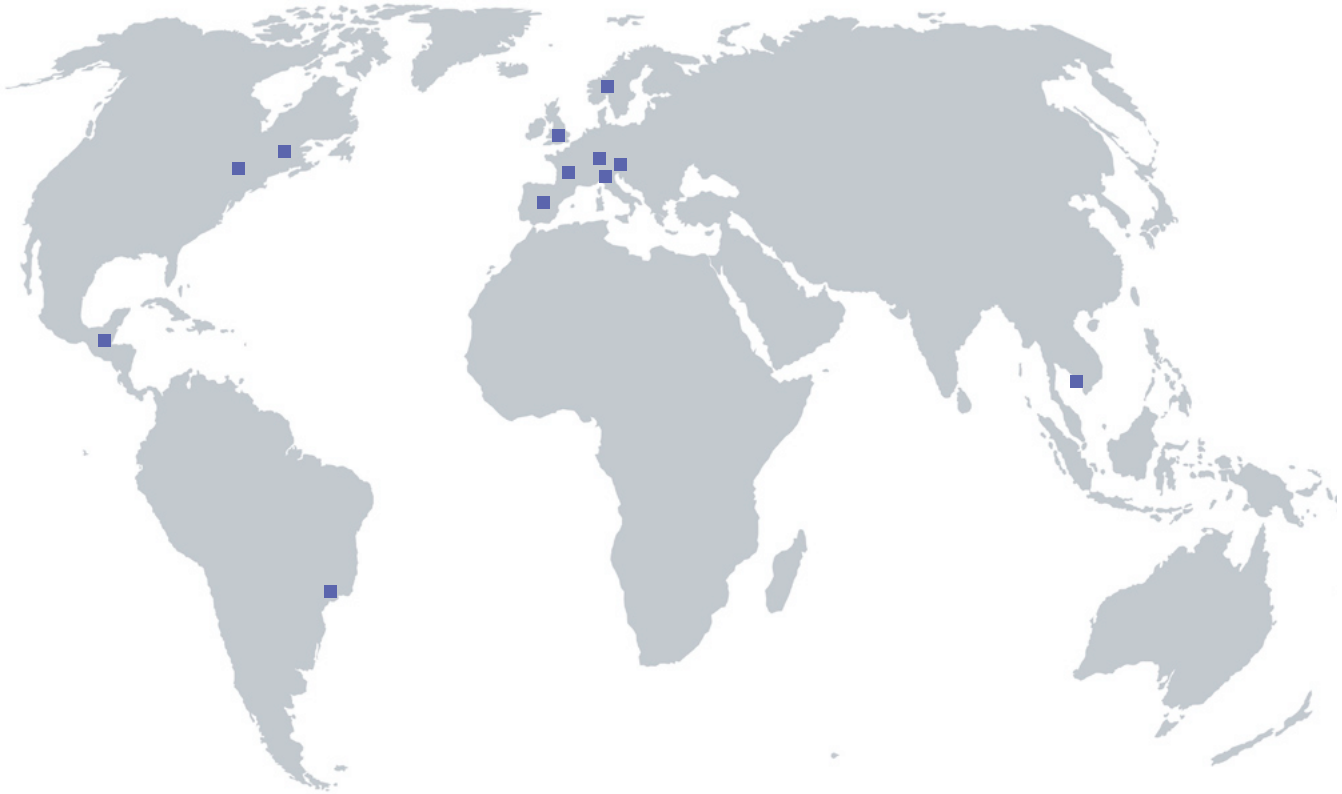
Dorval, QC, Canada, H9P 2T8

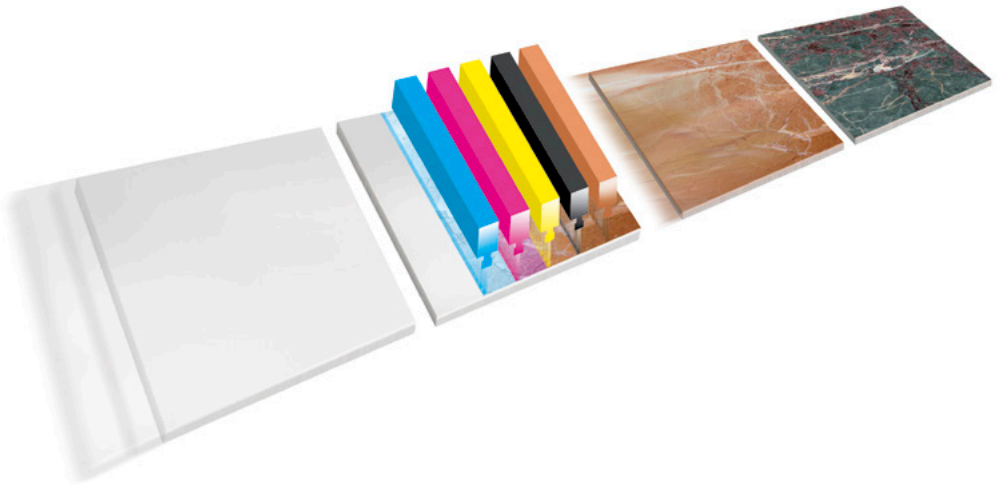
Durst Image Technology Latin Amerika SA de C.V.
C.P. 03810 México, D.F.
WTC Cd. De México, Montecito 38,
Piso 34 oficina 20, Col. Napoles, Mexico

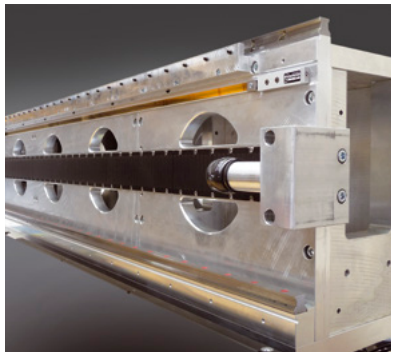
Durst Image Technology Asia Pte Ltd
609964 Singapur
No. 8, Boon Lay Way, #09-15 TradeHub 21

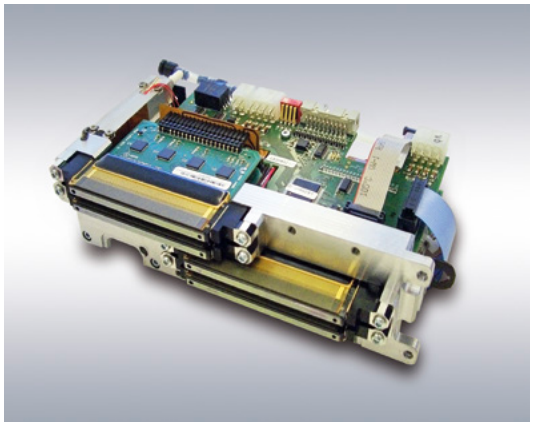


Technological expertise

- Multi-pass DOD piezoelectric inkjet systems as a physical-mechanical-electronic-chemical combination of polymers, for printing graphics with resolution of 600 to 1720 DPI, 8 colors, with 5-m width and speed of 4 m/min.
- Piezoelectric inkjet technology: drop output, nozzle array equipped with electronic firing impulse, fluids de-gasification and low-viscosity fluids circulation.
- Single-pass DOD piezoelectric multi-pulsing inkjet systems for rigid and flexible supports, max width 900 mm, max speed 48 m/min, up to 10 colors, in particular functional varnishes.
- Mechanical transport suitable for thin-band roll supports a tenth of a millimeter thick up to large-format glass panes 7 cm thick.
- XY printing with electronics and high-precision components.
- Drying techniques: UV and UV-LED technology with UV-drying inks, in particular combination with hot air and a pre-drying route.
- Ink development for special applications (glass, ceramic, brazing and etching pastes).
- Software for user applications and for equipment running, in particular for quick fiber-optic transmission; special incorporated functions such as variable data printing, random image data generation, online maintenance and functions correlated to services.
- Scanners for image reading, in particular for faster equipment checks.







Durst Research Center

On July 23, 2010, the Lienz research center was inaugurated
This new research center for inkjet technology, equipped with one of the most up-to-date chemistry-physics labs and a suitable scientific team, specializes in researching the bases for using inkjet printing in the energy technology, life sciences and health sectors and in security codes for brands – the products of 2018 and beyond...

Why Durst goes Textile

Durst has played a pivotal role in the adaptation of digital printing technologies in different sectors of business and industry and our investment in the digital textile segment is a logical consequence of our development as a company.

The benefits of digital printing technology are well known right across the market but lacking effective solutions, digital is simply not perceived as a genuine alternative to or as a supplement to traditional finishing processes.

Traditional manufacturer of textile printer were not able to develop the technology further since the introduction of digital printing machines at the ITMA in 2003, to fulfill the needs of the industry. The reason is, that most of the traditional manufacturer had and have no skills in the field of inkjet technology.

Our mission is to elevate digital printing from a sampling stage to a "real" production mode.

Expertise in Textile Application

Our first step in textile application was in the industrial soft signage sector, where we successful launched the Rhotex 320 dye sublimation printer.

In 2009 we made the decision to invest in a new Textile Business Unit and set up a development facility in Kufstein, Austria. The team combined textile professionals with Inkjet engineers to design a high-performance textile machine and to coordinate Durst's proprietary Quadro printhead technology with the relevant textile specifications. In parallel with this, specialists at the Research Center in Lienz, has developed high-grade inks and pre-treatment formulas for textile printing based on dispersion, reactive and acid inks.

It took us only one year to develop the Kappa 180 and we set the benchmark for speed, printing quality and reliability at the ITMA 2011 in Barcelona.
At the beginning we were noticed as a newcomer but the market quickly understood, that we are "the" specialists in industrial inkjet applications.

Kappa 180

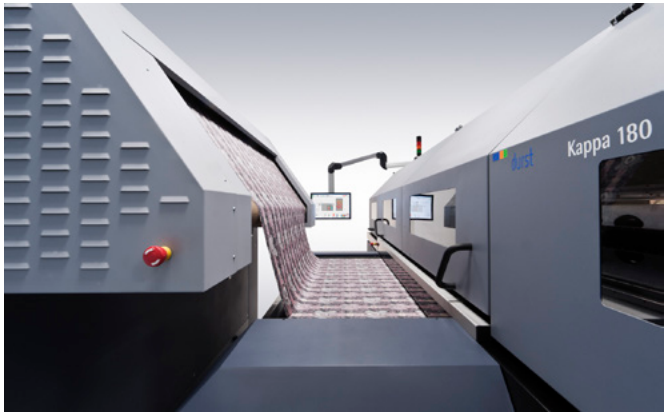
Productivity:

- HS Mode: Printing speed up to 580m²/h with an inking rate of 6,5 g/m² and a resolution of 1000x600 dpi
- HQ Mode: Printing speed up to 290m²/h with an inking rate of 13 g/m² and a resolution of 1000x1200 dpi

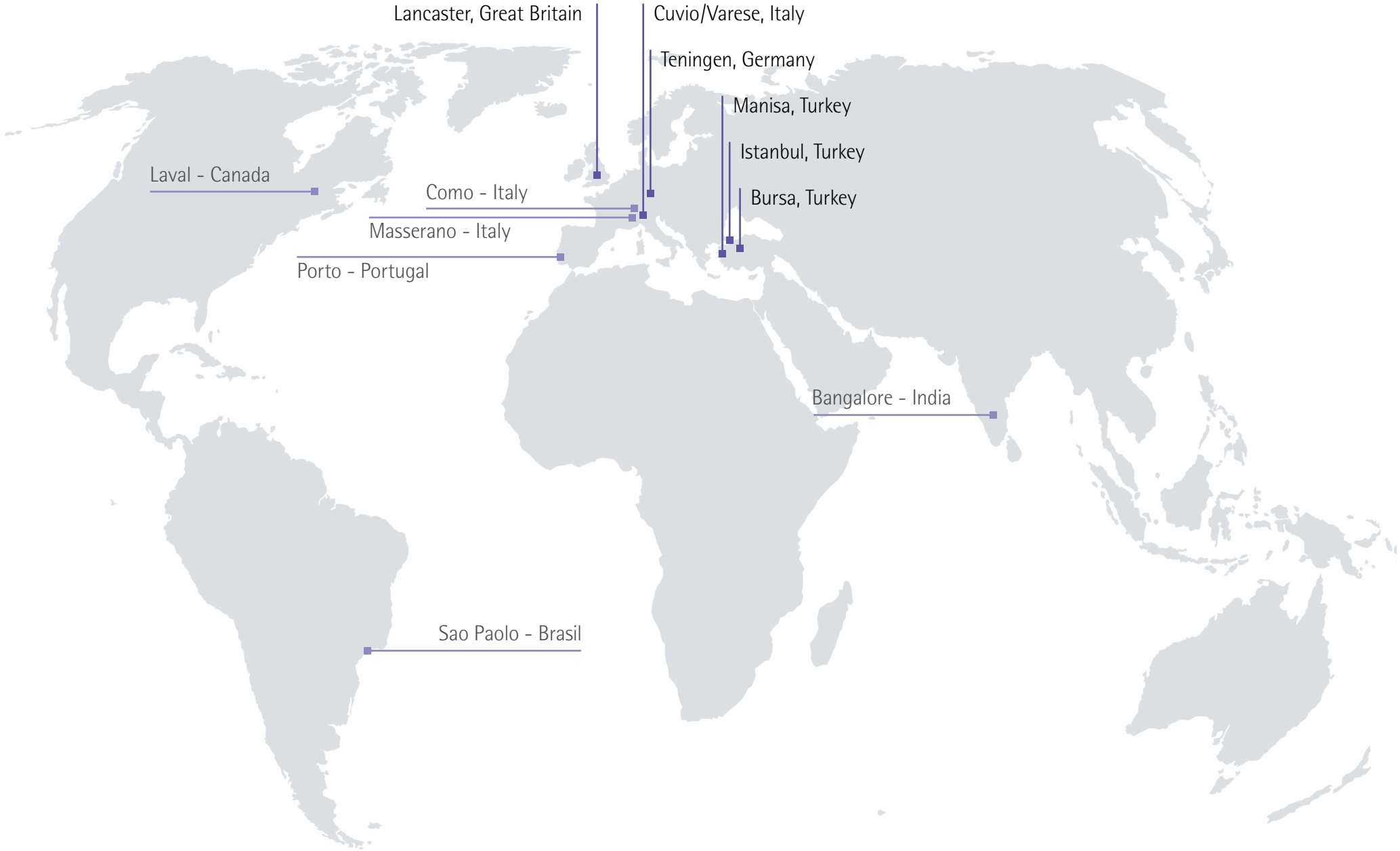
Inks:

The own developed Kappa Inks can be printed with absolutely environmentally friendly water-based dispersion, reactive and acid inks on the different textile fibers:

- Kappa Ink R (Reactive Ink System) for cotton and cotton mixtures with more than 60% cotton
- Kappa Ink D (Dispersion Ink System) for synthetic fibers, polyester and polyester mixtures with more than 50% polyester
- Kappa Ink A (Acid Ink System) for silk and silk mixtures



Kappa 180: Installations



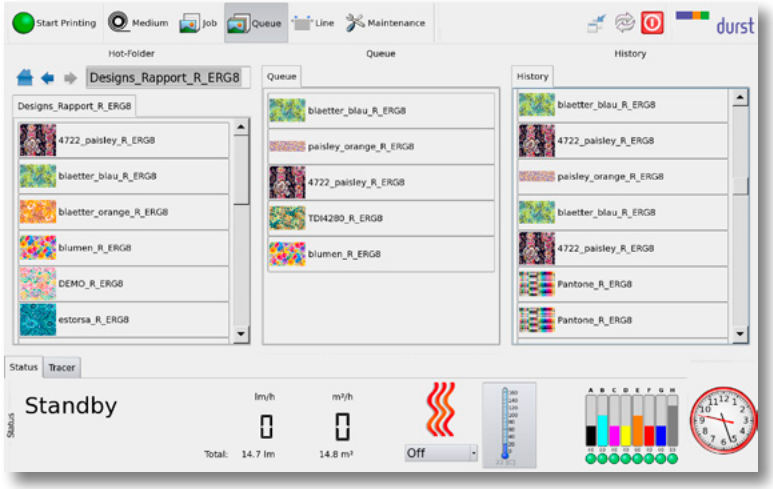
Expectations on Inkjet Technology

After extensive discussions with customers all over the world we feel safe to state that whoever adopts to digital inkjet technology does more than just change the production method - he secures and expands the most important thing - his business and the future of it.

Digital Technology is not like „push button and print" it needs in-depth knowledge in preparation of the fabrics, digital workflow, digital color management, ink lay down and post treatment.

Durst is not only delivering the best printing machines, we are the technology and supporting partner for our customer, to adapt successful new technologies.

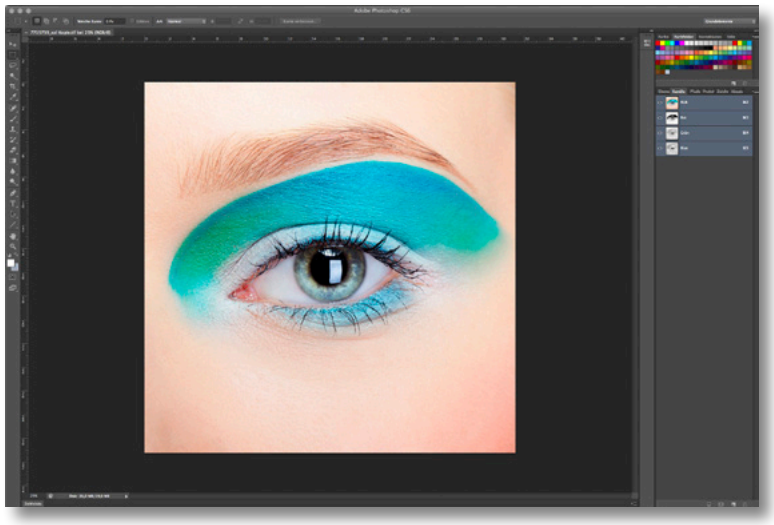
Our aim ist not just do deliver „a" machine, we are technology and research partners for the successful adoption and introduction of new technologies. Our research is not finished with creating a printing systems, but it extends into pre-treatment chemistry and application technology, ink chemistry and software technology - all synchronized and working together in your manufacturing plant.



Outlook

The digital textile print production is now capable of matching flat screen-printing performance and both technologies will co-exist together in the near future.
Both have their advantages and operational reason. But digital printing will bring new opportunities for design and color diversity and this will give an additional advantage beside the production values. To offer this advantage to the customer base, textile companies need to invest in technology and adopt to it.
There is a learning curve for the whole industry but to master digital textile printing is a competitive advantage today and a must in the near future.

The future is digital.



Thank you.

Christoph Gamper

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