



# Durst Textile Application Center

# The Textile Application Center

Durst is a world-leading manufacturer of advanced digital production technologies. Throughout its history of 80 years and more, the company has reinvented itself time and again, constantly investing in new technologies and innovations. Since the digital age began in the early 1990s, the company from South Tyrol has focused its research and development work on digital printing.

Durst customers now benefit from this wealth of experience in the Application Center. Specialists support them in optimizing their printing processes and in dealing with the increasing complexity and diversity of materials.

*At Durst headquarters in Brixen, customers can test their digital textile printers and optimize their printing processes*



Digital printing has revolutionized the printing industry. It offers new technological possibilities for greater variety, flexibility and efficiency in the printing process, and also helps to save resources. Short lead times allow processes to be individualized and permit the printing of small series with unlimited options when it comes to motif selection, as it is now possible to do more than just print recurring patterns. Particularly in the textile sector, digital printing technology therefore still offers great future potential and opens up new market opportunities.

This is why it is important to build up the sector's knowledge about the possibilities and advantages of digital printing. Durst is not just a machine manufacturer but also a strong partner and advisor, helping customers to be successful.

*Digital textile printing is booming and offers huge potential when used properly*



# The objectives

- > optimized printing quality
- > true colors
- > brilliant colors
- > optimum coverage
- > detailed results

*Increased demands in terms of flexibility and quality require experience and expertise*

The complexity of the materials being used and individual customer requirements make sound sector knowledge essential in the textile printing sector.

Process know-how and knowledge about the consistency and behavior of the various materials are key success factors. Meeting the demands entails close cooperation between machine manufacturer and printing or production company. To this end, the Durst Application Center is an extension of the company's Demo Center set up in 2010 where customers could see a range of practical examples that showed the correct functionality of the machines, together with true-color reproduction and intensity etc. The new Application Center now takes things a step further, simulating real applications and processes so that individual solutions can be developed in cooperation with the customer, taking account of the particular materials, color shades, patterns and motives, as well as production methods and the inks being used.



# The specialists

**Durst has a team of specialists who work with every customer to develop individual solutions.**

Experienced application experts support and advise customers not just on site when installing the machines: they are also on hand in the Application Center to carry out tests on new inks, materials, chemicals and applications, as well as performing demonstrations for customers together with application consulting. Durst's team of specialists seeks specifically to address the needs of the customers. The application experts offer many years of field experience in the textile sector and with the printing machines. In some cases they have already worked in printing companies as machine operators or industrial chemists and are therefore well acquainted with the requirements, problems and challenges that occur in textile printing.

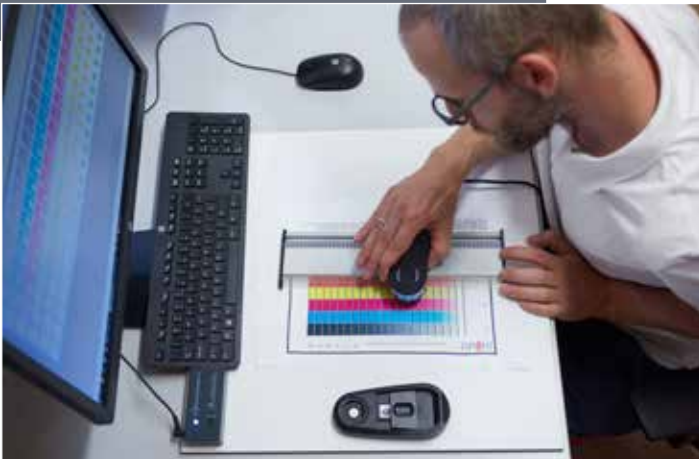
*The Application Center is located at the headquarters of Durst Phototechnik in Brixen, Italy.*



# The steps

*The Application Center offers a unique opportunity to run through all the steps involved in the production process in the textile industry*

- > Pretreating the materials with various chemicals to prevent the ink from running
- > Printing
- > Steaming
- > Washing to remove ink residues
- > Drying
- > Calendering
- > Ironing
- > Comparing results



The customer supplies fabrics, patterns and the required color shades. In the Application Center, the Durst Textile Team then tries out and develops the right composition of the chemicals needed for pretreating the materials, together with the inks, print settings, washing and drying methods at different temperatures, in order to adjust the printing software according to the special customer requirements. Firstly, pure colors are printed using different settings and mixtures; the best results are then refined and adjusted before producing a corresponding profile in the next stage. Furthermore, potential customers can obtain advice in the preliminary stages before taking crucial investment decisions, and see for themselves whether the required results can be produced with the machines, with scope for corresponding comparisons and evaluations. Customers can return at any time to attend training courses when expanding their range or using new materials, and work together with specialists to carry out tests and produce solutions.



# The training program

The training program at Durst is made up of the following packages, each on the basic or advanced level:

- Workflow training (2-4 days)
  - > Introduction to software, maintenance, printer and material set-up
  - > Color management, profiling, workflow from design to printing
  - > Workflow optimizations, color adjustments
  
- Chemistry & process (2-4 days)
  - > Introduction to pre- and post-treatment, chemistry and equipment
  - > Recipe development: theory and practice
  - > Optimizing the parameters, fixing, washing, finishing

Basic package courses are held during the installation process.  
To book advanced packages, please contact your sales partner.

The Application Center gives customers an opportunity to attend application-based training courses for learning, improving and perfecting the skills needed to handle the machines, including particularly how to set up the software and compose the colors, as well as developing pretreatment recipes, to obtain the best results for the particular requirements and purposes. Given the constantly growing competition in the branch, the only way to remain successful in the long term is to pursue a strategy of constant further development, with optimized processes and the ability to respond promptly to changing consumer demands.

*Significant improvements and savings can be achieved through training and process optimization*



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