

Rhotex 180 TR

Industrial Dye Sublimation



With the new Dye Sublimation printer Rhotex 180 TR, Durst is expanding its successful portfolio for high-performance inkjet printers. Durst now offers transfer printing for the textile industry in addition to digital direct printing systems. The major benefit of transfer printing is that no in-depth textile-knowledge of the pre-treatment and the finishing process of the print media is required and no further large investments are necessary for production. Printing on sublimation paper and the subsequent transfer process using a calendar, minimizes the production effort and therefore enables companies from other industries to enter into textile production. The trend towards individualisation of consumers, the growing number of textile solutions for POS, as well as web-to-print and print-on-demand requirements provide new market opportunities. The printer system is suited especially for polyester and polyester blends, as commonly used for sports wear, home textiles and soft-signage.

As you would expect, the Durst Rhotex 180 TR combines industrial production capabilities with the highest print quality and reliability.

The printer system was designed for non-stop production and achieves a production speed of 200 m²/h. The Rhotex 180 TR features a maximum print width of 1850 mm and is equipped with the latest QuadroS printheads. Durst offers a specially formulated Dye Sublimation Ink System, water-based, free of odors, skin-friendly and free of any volatile organic compounds (VOC).

The printer system is classified for all current transfer papers and quality levels. It creates brilliant colors, pin-sharp images and produces an impressive abrasion-resistant and water-proof result.

Durst also offers for the Rhotex 180 TR an optional „Direct Print Kit“ for flag fabrics and standard materials. The changeover time between transfer and direct printing is only a few minutes and can be performed by a single operator.

Examples of Use:

Clothing

Sports Wear, T-Shirts, Accessories

Home Textiles

Bed Linen, Upholstery, Table Cloths

Soft-Signage

Flags, Wall Decorations, Outdoor Advertising



Technical Data



Print Media:

Sublimation Paper

Optional: "Direct Print Kit" for printing on coated and uncoated polyester fabric with a polyester ratio of more than 50%. Other fiber mixtures are printable with restriction.

Print Width:

Max. Print Width 1850 mm

Material transport:

Integrated Feed-In System and Unwinder for rolls with a diameter of up to 400 mm

Dryer:

Heated Printing Table and Hot Air Dryer for rapid drying

Printheads:

Durst QuadroS Printheads

Print Mode:

Binary (7pl) and variable droplet size with 7/14/21 Picoliters

Resolution:

Standard 800 x 600dpi

Print Speed

- High Quality: 100 m²/h
- Production Quality: 200 m²/h

RIP:

Caldera Grand RIP+

Ink Tanks:

18 Liters per Color

Ink System:

8 channels easy to refill, with integrated Degassing- and Filter System

Inks:

Durst Dye Sublimation-Ink set, CMYK
Light Cyan, Light Magenta, Light Black
or special colors

Dimensions:

Height: 2500 mm

Width: 2100 mm

Length: 4800 mm

Production Parameters:

20 - 25 °C, relative humidity 45% - 55%
(non-condensing)

Connections:

3 Phase + N + PE 230/400 V (+/- 5%)

21 KVA 50/60 Hz

Air Pressure:

6 bar, dry and free of oil

The Durst logo, consisting of a blue square with a white 'd' and a green square with a white 'u' to its right, followed by the word 'durst' in a blue, lowercase, sans-serif font.

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