

Rhotex Series

The most productive printing systems for industrial soft-signage.



With the Rhotex 322 and the Rhotex HS, Durst offers two industrial soft-signage inkjet Printing Systems for a successful entry into the expanding textile market. The versatility and robustness (durability) of advertising and informational media made from textiles, such as banners, displays, wall decorations, signage, parasols, flags, backdrops and outdoor advertising is impressive. They can be folded, easily transported and mounted, washed and even recycled. As a result of the Durst inkjet technology, the quality and efficiency of the finished print is on par with traditional production processes. The Rhotex Series offers unlimited colors, designs and photo-realistic reproductions. It also provides quick turnaround times for soft-signage products, on-demand and independent of job volume. Durst water technology also guarantees clean and sustainable production processes, allowing for environmentally friendly products and promoting the responsible use of natural resources. The ecological and economical benefits of the Rhotex Series grant their users access to new market opportunities and offer a diversification of products, resulting in a competitive edge.



Technology

Durst Technology - 24/7

Durst incorporates high-end components in all its Rhotex Inkjet Printer Systems, to guarantee consistent and durable quality, high performance capabilities and reliability.

The Printing Systems provide an unrivaled versatility; they are low maintenance and are designed for non-stop production.



Durst QuadroZ Printhead-Technology

The Durst QuadroZ Printhead-Technology arranges the colors on the 8-channel printheads symmetrically, to ensure precise color application for bi-directional printing and to prevent streaking. This creates color conformity across the entire printing width, without reducing production speed. The QuadroZ Printhead Technology allows for droplet sizes of between 7-21 picoliters on textiles. The 32 printheads print 8 colors without modulation or density fluctuation. 6,144 nozzles achieve a resolution of up to 1,200 dpi while the automatic nozzle cleaning system provides constant operational readiness.



Durst Water Technology

Durst has developed its own eco-friendly, water-based Rhotex Dispersion Ink, especially for digital print on polyester. This ink is odorless and can be recycled; it is skin-friendly and free of volatile organic compounds (VOC). On the Blue Wool Scale it reaches a light fastness of 5-6, it creates vibrant colors, a high resolution and is capable of through-print for flags. The Rhotex Dispersion Ink is available in the colors CMYK, light-magenta, light-cyan, gray and further process colors (PCA).



Precise Fabric Guidance

The Rhotex Printing Systems feature encoders with a precision, down to the micrometer and a roll system with torque-controlled winding- and unwinding motors, that ensures perfect handling of various textiles. The new Rhotex HS also features a transport belt with a permanent adhesive and the approved fabric guidance system that is used in the industrial clothing and home textiles printers of the Kappa Series, to print on gauzy or elastic fabrics with pinpoint accuracy.

Dryer Unit

The Rhotex Thermal Air Dryer is equipped with a special insulation that provides a thermal insulation efficiency of more than 80%. A constant speed control with infrared sensors and homogeneous air speeds guarantee uniform drying results. There is a choice of 1-3 passages to determine the drying cycle.

Rhotex HS

The fastest Digital Soft-Signage Inkjet Printer on the Market

The production speed of up to 400 sqm per hour makes the Rhotex HS the fastest digital soft-signage printer on the market. Its resolution of up to 1,200 dpi produces unrivaled print quality. The Rhotex HS is equipped with the same-patented Durst QuadroZ printhead technology that is used in the digital high performance textile printers of the Durst Kappa Series for production in the clothing- and the home textiles sector.

Its print width of 330 cm and the use of eco-friendly, water-based dispersion inks make the Rhotex HS the perfect solution for a range of soft-signage applications, such as banners, displays, wall decorations, signage, parasols, flags, backdrops and outdoor advertising.

The Rhotex HS printer's production efficiency allows the operator to quickly adapt to new customer requirements and to realize a profitable production from the start, on demand and independent of job volume.



Rhotex 322

The industrial Inkjet Printer for Soft-Signage Applications

The Rhotex 322 is the perfect solution to initiate industrial soft-signage production. The Rhotex 322 creates an excellent print quality at a rate of 140 sqm per hour. The new Grayscale-Printhead-Technology with three production levels can print variable droplet sizes between 7-21 picoliters.

This ensures maximum output without compromising the quality. Its print width of 320 cm and the utilization of eco-friendly, water-based inks make the Rhotex 322 ideal for a range of soft-signage applications, such as banners, displays, wall decorations, signage, parasols, flags, backdrops and outdoor advertising.

The Rhotex 322 is the ideal solution for large format specialists that would like to diversify their portfolio with high-grade textile applications.



Soft signage – Ready for the mainstream

Today, digital soft signage is consolidating applications which used to be the domain of other materials and production methods. Nowadays, soft signage means more than just flags for outdoor use produced via offset printing. Soft signage is the expansion of advertising, decorating and sign applications using textiles as the medium. Previously, point of sale, point of purchase and banners were classic areas of application dominated by paper, PVC and vinyl. Thanks to its brilliant colors, elegant look, odorless inks, low environmental impact and flexible (even elastic) materials, soft signage presents new opportunities for both indoor and outdoor signage, whether it's in store windows, museums, trade shows or entire shopping centers.



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Potential areas of application of soft signage:

- Banners
- Posters
- Point of sale/point of purchase displays
- Shop decoration
- Wall decoration
- Trade show displays / Trade show stand construction
- Flags
- Sun umbrellas
- Facades
- Outdoor advertising
- Backdrops (theater, television etc.)



Technical Data

	Rhotex HS	Rhotex 322
Media width, thickness	Max. printing width: 330 cm Max. thickness: 2 mm	Max. printing width: 320 cm Max. thickness: 2 mm
Feed-in options	Integrated feed in unit for roll diameter up to 500 mm	Integrated feed in unit for roll diameter up to 500 mm
Printing blanket	<ul style="list-style-type: none"> • With permanent adhesive and integrated washing unit • Heating-roller 	n/a
Dryer	Rhotex HS Horizontal Dryer: Thermal air dryer up to 90 °C and 1 or 3 passages	Integrated thermal air dryer up to 90 °C
Exit options	Roll up unit - for roll diameters up to 500mm	Roll up unit - for roll diameters up to 500mm
Printheads	32 Durst QuadroZ heads, 8 colors (4 heads each)	16 Durst QuadroZ heads, 8 colors (2 heads each)
Resolution	Standard 800 x 600 dpi, up to 1000 x1200 dpi	Standard 400 x 600 dpi
Printing speeds	High quality mode: 230 m ² /h High speed mode: 430 m ² /h Maximum speed: 905 m ² /h	High quality mode: 80 m ² /h High speed mode: 140 m ² /h
RIP	Caldera Grand Rip + Easy Media License	Caldera Grand Rip + Easy Media License
Ink tanks	18 liters per color	18 liters per color
Colors	CMYK, Light Cyan, Light Magenta, Gray, PCA	CMYK, Light Cyan, Light Magenta, Gray, PCA
Space Requirements:	Length: 920 cm; Width: 681 cm; Height: 270 cm Weight: 15000 kg (approx.)	Length: 167 cm; Width: 680 cm; Height: 198 cm Weight: 4500 kg (approx.)
Production parameters	20-25 °C, relative humidity 45 %-60 % (not condensing)	20-25 °C, relative humidity 45 %-60 % (not condensing)
Connections	<ul style="list-style-type: none"> • Rhotex HS: 3 Phase +N +PE 230/400 V (+/- 5 %)/25 KVA 50/60 Hz • Rhotex HS Horizontal Dryer System: 3 Phase + N + PE 230/400 V (+/- 10 %) 50 kVA 50/60 Hz 	Rhotex 322, incl. dryer: 3 Phase +N +PE 230/400 V (+/- 5%)/25 KVA 50/60 Hz



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