

Rhotex HS

For industrial digital soft signage production



Soft Signage, or the utilization of textiles as a medium for advertising and as a source of information, is currently one of the growing areas in the print industry. The evolution of the digital inkjet technology, has helped soft signage products to conquer the traditional market areas of application, such as paper, PVC and vinyl. The benefits of soft signage lie in its versatility and its robustness. Which other large format product can be folded, is easily transported and installed, can be washed and even recycled?

Soft signage products are suitable for indoor, as well as outdoor applications, they offer an added ecological value and the print quality is on par with traditional materials.

As more companies and advertising customers are becoming aware of the advantages of soft signage products, there is a growing demand for their implementation at POS and trade fairs. So far, soft signage has mainly been a screen printing product, but changing market requests for unlimited colors, designs, photo-realistic print quality and rapid operational availability, independent of print run volume, are shifting the focus towards inkjet technology. Soft signage is opening new market opportunities for producers of print- and promotional material, because they provide the first points of contact for companies and advertising customers, while at the same time, controlling the digital workflow to effect the adaptation of textile materials.

With the Rhotex 320 and Rhotex 322, Durst has been supplying soft signage solutions, to complement producers' large format print portfolios, for some years now. The new Rhotex HS is Durst's solution to the increased market requirements, an industrial soft signage printer that combines the digital advantages with the efficiency of analogue textile printers.

The Rhotex HS achieves a production speed of more than 300m² per hour, which makes it the fastest digital soft signage printer on the market. Its resolution of 1200 dpi produces unrivaled print quality. The Rhotex HS comes with Durst's patented QuadroZ Printhead Technology, which is also utilized in the digital high performance printers of the Durst Kappa series, which was developed for the clothing and home textiles sector.

The print width of 330 cm and the usage of eco-friendly, water-based dispersion inks, that are odorless and free of volatile organic compounds (VOC), make it most suitable for a large range of soft signage applications, such as banners, displays, wall decorations, signage, parasols, flags, backdrops and outdoor advertisements. The productivity of the Rhotex HS enables the operator to quickly and efficiently react to customer requirements and to achieve profitable production independent of print run size, from the start.

Technical Data

Print width and material thickness:

Max. print width 3300 mm, print length limited only by media length,
max. material thickness 2 mm (dep. on the material)

Fabric materials:

Wide range of uncoated and coated polyester fabrics or cloth of a polyester content greater than 50% (dispersion ink for Polyester optimized). Other fiber mixtures with restriction printable

Fabric feed-in:

Fabric feed-in for roll size up to 500 mm

Printing blanket:

- With permanent adhesive and integrated washing system
- Heated roll

Dryer unit:

Horizontal dryer: hot air dryer with 3 passages up to 90°C

Fabric take-up:

Reel for roll size up to 500 mm

Printheads:

28 Durst QuadroZ printheads, 7 colors (4 printheads per color)
symmetrically (opposing) aligned on the printheads

Print mode:

Binary (7pl) and variable droplet size (7-14-21 pl)

Resolution:

Standard 1000 x 600 dpi, up to 1000 x 1200 dpi

Print speed:

- High-Quality production at 230 m²/h
- High-Speed production at 430 m²/h

RIP:

Caldera Grand RIP

Features:

- DASC – Durst Advanced Stroke Control
- ONC – Online Nozzle Control



Ink container:

18 liters per color

Colors:

- Standard: CMYK
- Optional: Light-Cyan, Light-Magenta, Gray

Dimensions: Feed-in + Printer + Dryer + Take-up

Length: 9200 mm

Width: 6810 mm

Height: 2700 mm

Production parameters:

20 - 25 °C, rel. Hum. 45 % - 60 % (non-condensing)

Connections:

- Rhotex HS Printer + fabric feed-in unit + take-up:
3 Phase + N + PE 230/400 V (+/- 5%) / 25 KVA 50/60 Hz
- Rhotex HS Horizontal-Dryer:
3 Phase + N + PE 230/400V (+/- 10%) 50 kVA 50/60 Hz



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