



## Rhotex 322

### The most productive soft signage industrial inkjet printer



The digital printing of textile promotional media continues to increase by more than 50% year on year. The Rhotex 322 is Durst's answer to the popularity of this growing market.

The Rhotex 322 is capable of printing up to 140 m<sup>2</sup> per hour. This is due to the latest 3 level greyscale printhead technology with a drop size of only 7 to 21 picolitres. This provides maximum productivity without compromising the exceptional quality with a resolution up to 1200 dpi at 7 picolitres.

The Rhotex 322 offers the highest environmental protection. Polyester fabrics printed with Rhotex water based dispersed dye inks are entirely environmentally friendly, recyclable and disposable. The dyes are harmless to the skin, completely odour free and produce no VOCs. In addition, Rhotex dispersed dyes followed by calendaring also provide bright, vibrant colours.

#### **Rhotex 322, the inkjet printer for the industrial soft signage sector**

The Rhotex is a true industrial printer, unlike many others used for printing onto polyester fabrics, which either use solvent based inks or are only capable of minimal run lengths. Its unrivalled reliability provides 24/7 operation and unattended printing, whilst its advanced software maximises workflow.

#### **Other features of the Rhotex include:**

- The Rhotex water based dispersible dyes all comply with the Blue Wool scale 5-6 enables outdoor application for up to two years, ideal for flags and banners
- The dispensing system also includes a fold-compensation device and an antistatic system
- Automatic, self-cleaning jet system for continuous industrial printing
- The controllable hot air drying system ensures consistent drying over the whole width of the printed material
- Material specific machine settings can be stored and recalled from the media channel
- Integrated, software controlled servicing instructions
- Caldera-RIP software with Adobe Creative Suite 5 integration optimises file handling and allows for continuous upgrading in line with new printing requirements

Rhotex has provided new and profitable business opportunities in large format printing. It enables the printing of textiles for use in the home, wall coverings, domestic textiles and interior design, as well as fashion applications. The Rhotex 322 further enhances Durst's leading position in the soft signage market.

# Technical Data

## General specifications

### Dimensions:

Width: 680 cm (22.30 ft.)  
Depth: 167 cm (5.47 ft.)  
Height: 198 cm (6.49 ft.)

### Weight:

approx. 4500 kg (9900 lb.)

### Safety standards:

Complies with currently valid guidelines:  
European Machine Rules 2006/42/EG (98/37/EWG)  
EG-Low Voltage Directive 2006/95/EG i.vs. 93/68/EG  
EG-Directive electromagnetic compatibility 2004/108/EG, vs. 92/31/EWG 2002/95/EC RoHS Directive



## Printing specifications

### Printing system:

- Roll to Roll transport system designed for textile printing with inline hot air dryer with temperature and air circulation control
- 3 Level Greyscale Technology designed for water based Rhotex inks with 7 - 21 pcl
- Motorized head media distance adjustment, controlled via user software with storage capability for each media channel
- Built-in ink absorbing system for textile printing without a liner -automatic printhead cleaning system

### Resolution:

Up to 1200 dpi

### Colours:

Standard: CMYK  
Optional: CMYKLMlClk (Light Cyan, Light Magenta, Light Black), and/or spot colors

### Productivity:

Up to 140 m<sup>2</sup>/hour (1,057 sq.ft./h)

### Inks:

Rhotex water-based, dispersed dyes inks, totally VOC-free and environmental friendly, blue wool rating 5-6, for indoor and outdoor applications. The following process of calendaring outside the printing station does fix the inks and create the brightness of colours. To reach the best weather fastness a washing off, including reduction clearing of all textiles, especially flags for outdoor applications after fixation is recommended.

### Ink supply:

Integrated ink tanks with 10 litre capacity per ink, refillable during the printing process. Integrated de-gassing system.

### Software/RIP:

Durst Rho Touch Screen Linux Software for very fast processing with minimum storage capacity on the hard disk. External Caldera RIP Server with GrandRip+ Software.

- Simultaneous file ripping, data transfer and printing
- Ink cost calculation
- Integrated cellular capability for SMS notification of printer status and maintenance
- SMS alert for unattended printing
- Software and hardware for creating media ICC-profiles (Optional)

## Media specifications

### Media types:

Wide range of uncoated and coated polyester fabrics and fabrics >50% polyester (dispersed dyes inks are optimized for polyester). Other fabrics printable with limitations.

### Maximum printing width:

320 cm (10.5 ft.)

### Max. printing length:

Only restricted by media length

### Maximum thickness:

2 mm (depending on media)

### Max. roll diameter:

500 mm (20 in.) outside diameter  
320 cm (10.5 ft.) media width/resp.

### Max. roll weight:

approx. 300 kg (661 lb.)

## Ambient conditions

### Space requirement:

approx. 9 x 9 m (30 x 30 ft.)

### Max. sea level of installation:

2400 m above sea level (8000 ft.)

### Max. ambient temperature:

+15 °C to +30 °C (+59°F to 86°F)

### Max. humidity:

>40 - 80 %, non condensing

The Durst logo, consisting of three colored squares (blue, orange, green) above the word 'durst' in a lowercase, sans-serif font.

Durst Phototechnik

AG

Large Format Printing

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