



durst

# Rho 320R HS

## High-performance 3.2-meter roll-to-roll UV printer



### Time is money!

With the high-performance Rho 320R HS printer you can profitably and ecologically broaden your digital large-format business.

In the printing sector, a business is successful when it quickly responds to changing market demands while keeping service quality constant. Printing companies serving as global providers and offering the most varied types of products (from flyers to posters in DIN-A0 format to soft signage on textile supports and large-format posters) are the partners sought by brands and chain stores and shops that need to rapidly respond to offer variations.

It's not just the work done by creatives, it's also a question of hardware. In fact, you need to have high-quality printers optimized in color by other offset machines and able to offer immediate prints and the highest output without running long proofing tests.

Such as the Rho 320R HS, one of the models in the brand new family of Durst inkjet printers, which can print on paper, polyester fabric, vinyl, film, adhesive films and innumerable other supports with maximum print width of 320 cm and in 6 colors plus white. Thanks to smart software, you can print on selected surfaces in matt or glossy. The prints not only have impressive quality, with 600 DPI resolution, but are also turned out incredibly fast: 176 m<sup>2</sup>/h in POP mode thanks to its 12,288 nozzles, "magnetic rail" technique (friction-free and uniform in sled guiding), and vanguard electronics.

VOC-free ink, given Nordic Swan quality certification and conformant to German (AgBB) safe construction materials standards (tested on non-woven wallpapering cloth) has high pigment concentration and reaches high density with a reduced ink load, thereby cutting costs and environmental impact.

Roll-to-roll printing, even in different patterns, front/back printing, lengthwise piece cuts, integrated management software (IMS) and inline maintenance make the Rho 320R HS a reliable industrial printer.

### Durst's Rho 320R HS offers:

- High printing speed with photographic quality (138 m<sup>2</sup>/h at 600 DPI/6 colors)
- Automatic printing in shifts, sans operator, with jumbo rolls and 8-hour autonomy ink-feed system
- Eco-compatible printing with VOC-free UV inks
- Use of flexible materials (paper, film, polyester fabrics, vinyl, mesh)
- Roll-to-roll printing (with separate print queues)
- Matt/glossy printing, also partial or selective
- 24/7 running, thanks to its structure and maintenance software
- Integrated printing with IMS software
- Kit for ecological textile printing on mesh and loose weaves with no backliner

# Technical Data

## General specifications

### Size:

Width: 680 cm  
Depth: 167 cm  
Height: 198 cm

### Weight:

Approx. 4500 kg

### Safety standards:

Complying with EU standards  
(Machinery Directive 2006/42/EC)

### Feed:

380 V – 50/60 Hz, 26 KvA



## Printing specifications:

### Printing system:

Roll conveyor with Quadro®Array technology and software regulation of printhead distance from the material through the support channel.

### Resolution:

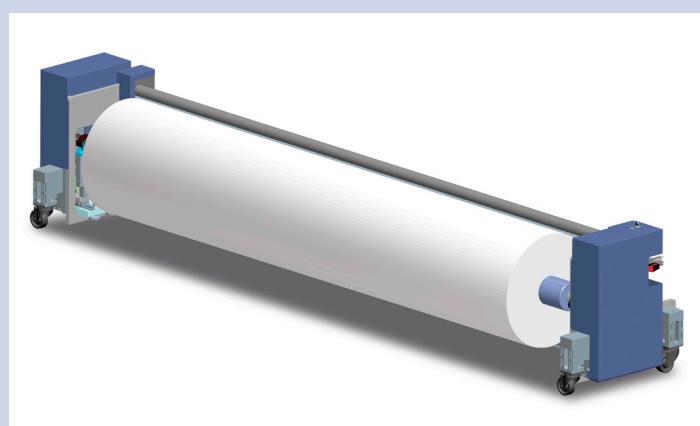
600 DPI

### Colors:

Standard: CMYK  
Optional: light cyan, light magenta, white  
PCA: orange, violet, green (optional)  
Spot colors on request

### Inks:

High-pigmentation Rho Roll DM Ink for indoor and outdoor uses. The inks are devoid of solvent (VOC-free) and certified by Nordic Swan.



Giant roll feeders with separate traction systems, dancing roller and sensor-controlled feed.

### Ink feed:

Incorporated 10-liter tanks for each color, reloadable during printing. The refill inks are supplied in 5-liter disposable tanks - easily disposed of when flattened - which avoids soiling the machine and contaminating the environment.

### UV drying:

Two UV bulbs (7.2 kW), with incorporated air-cooling and software-regulated intensity (16 degrees). Bulbs optimized to ink wavelengths.

### RIP software:

Durst's Linux Touchscreen software for the Rho printer makes for extremely fast processing and reduces hard disk occupancy space to the minimum.

- Selectable matt/glossy mode
- Simultaneous data and print rasterizing and transfer
- Skip White (XY) function
- Calculated ink consumption
- Selective glossy printing
- Software and hardware for ICC profile creation (optional)
- External Caldera RIP server with GrandRIP+ software

### Productivity:

High-speed POP mode: 176 m<sup>2</sup>/h;  
2-Pass mode: 138 m<sup>2</sup>/h;  
Backlit mode: 75 m<sup>2</sup>/h;  
no slowdown in 6-color printing.  
Output depends on the material.

## Support specification:

### Materials:

Broad range of materials in rolls, treated and not, such as banners, vinyl, tarpaulins, polyester, textiles, canvas, paper, self-adhesive film, PVC/transparent PA, mesh, etc.

### Maximum print width:

320 cm

### Maximum print length:

Limited only by roll length/diameter with respect to weight

### Maximum thickness:

2 mm (depending on the support)

### Max diameter/weight of the roll:

Standard version: external diameter, 450 mm; max weight, 300 kg  
Jumbo version: external diameter, 600 mm; max weight, 480 kg

### Space required:

Standard version: about 9 x 4 m  
Jumbo version: 9 x 8 m

### Max installation height above sea level:

2400 m

### Temperature range:

From 15° to 30° C (59° to 86° F)

### Relative humidity:

25% to 80%, without condensation

### Air discharge connection:

For hook-up with ventilation systems (about 4500 m<sup>2</sup>/h) for which the customer is responsible.

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