

# Rho 350R

## Roll to Roll UV Inkjet-Printer

The new Roll to Roll printer Rho 350R, based on the Rho concept, is now available for printing on roll material with a media width of up to 350 cm (11,48 ft). UV ink, a development unique to Durst, which is adapted to the flexibility of the material, ensures perfect printing on textiles (polyester, canvas, cotton, rayon, banner material, etc.), vinyl, tarpaulin, paper (blue black), transparent films and much more. The printer is therefore ideal for the preparation of advertising material for hanging on office buildings, for the production of flags, advertising on vehicles/trucks, and similar areas of application.



The Rho 350R demonstrates a number of significant advantages:

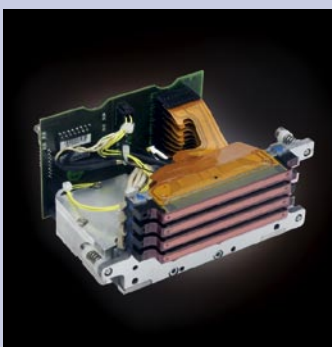
- 400/600 dpi resolution, CMYK – colour printing and 2 spot colours with a quick change system
- No subsequent drying times needed
- Quick material change times and minimal material waste
- Direct printing on untreated materials
- Specialised ink, odourless, and environmentally friendly
- Excelling ink adhesion
- Best possible resistance to weather conditions and light
- Unattended printing
- Maintenance friendly
- Precise registration for double sided printing

Rho 350R uses all of the new technologies which the Rho system offers. The revolutionary Quadro Array technology is therefore also included in this device. In four colour mode the device is able to print 120 m<sup>2</sup> (1292 sq.ft) per hour. The Ink's UV drying enables the material to be used directly after printing. 2 roll loading positions with a holding capacity of max 240 mm (9.5 in.) and 300 mm (12 in.) roll diameter. The roll wind-up unit is motorised.



### Optimized Workflow

With the built in Linux Workstation it is possible to prepare files completely during printing. Changes and corrections can be made without any time delay, „On-the-Fly“. The Printer is controlled with an ergonomic true touch screen software designed for easy operation.



**Revolutionary – The Quadro Array Technology**  
The Durst Quadro Array Technology is based on Spectra nozzle outlets. Four slots in an individually heated nozzle pallet with continuous ink flow in one array incorporate a total of 512 nozzle outlets.



# Technical data

## General specifications

### Dimensions:

Width: 210 cm (6.88 ft.)  
Length: 740 cm (24.28 ft.)  
Height: 220 cm (7.21 ft.)

### Weight:

Approx. 5000 kg (11000 lb.)

### Safety standards:

Complies with currently valid guidelines

### Printing system

Patented Durst Roll to Roll transport system with Quadro® Array-Technology

## Front-end Workstation

### Workstation:

Type: HP Workstation XW 8200 with dual Intel Xeon 3.4GHz processor

### RAM:

2 GB RAM

### Harddisks:

3 x 36 GB SCSI with 15.000 RPM

### Drive:

DVD Rom and CD-RW

### Operating system:

RedHat Enterprise Linux WS EM64T

### Monitor:

integrated 19 " Touch Screen Monitor

## Printing specifications

### Productivity:

#### Rho 350R-8

Draft mode: 65 m<sup>2</sup>/h (700 sq.ft./hour)  
Standart mode: 45 m<sup>2</sup>/h (484 sq.ft./hour)

#### Rho 350R-16

Draft mode: 120 m<sup>2</sup>/h (1292 sq.ft./hour)  
Standart mode: 85 m<sup>2</sup>/h (915 sq.ft./hour)

### Resolution:

400/600 dpi (addressable)  
800/1200 dpi (apparent)

### Colours:

Standard: CMYK  
Optional: CMYKW and 1 Spot color with Quick change system

### Inks:

Odorless for Roll media types optimized UV-resistant pigmented ink for indoor and outdoor applications. The pollution free ink are solvent-free (without VOC).

### Ink supply:

Integrated ink tanks with 10 liter (2.19 gal.) capacity per ink, refillable during the printing process. The refill inks are in 5 liter (1.09 gal.), one-way cubitainers, easily disposal in collapsed condition, thus avoiding pollution to the machine and the environment.

### RIP

Onyx® PosterShop® for Windows Computers  
Caldera® Grand RIP+ for Linux Workstations and Macintosh

### RIP-Input file formats:

All from ONYX® and Caldera® supported file formats

## Media specification

### Media types:

Wide range of uncoated and coated flexible media types like textiles (polyester, canvas, cotton, rayon, banner media etc.), vinyl, tarpaulin, paper, self adhesive foils and other media types.

### Maximum printing width:

350 cm (11.48 ft)

### Maximum printing length:

limited by media roll length

### Maximum media thickness:

2 mm

### Two media feed positions:

Pos 1:

For media rolls up to 240 mm (9.5 in.) outside diameter

Pos 2:

For media rolls up to 300 mm (12 in.) outside diameter

Automatic accurate registration for double sided printing with tracking control

### Medium cutoff:

Approx. ca. 60 cm (24 in.) at the leading edge of the roll

### Media cutting:

Mechanical guide for manual cutting of the roll

## Environmental requirements:

### Maximum height:

2.400 m (8000 ft.) above sea level

### Temperatur range:

+ 15 °C bis +30 °C (59°F to 86°F)

### Relative air humidity:

20 bis 80 %, non-condensing



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