Rho 351R
Roll-to-roll UV-Inkjet Printer

The Rho 351R, a further development of the Rho 350R, is a high-speed UV inkjet printer for roll media, including: paper, fabrics, vinyl and PVC films, up to a width of 3500 mm (11.6 ft). The high print quality, featuring fine text (as small as 4 point) and solid areas of colour with high colour gamut and density, is achieved using Durst Quadro Array print head technology, innovative European mechanical engineering and Durst's proprietary image software.
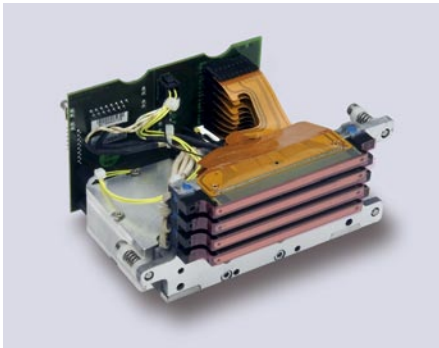
The Rho 351R uses Durst Rho Roll Ink, a virtually odourless, high pigmentation ink, which has been specially developed for excellent flexibility, adhesion and colour stability on flexible material. It is ideal for printing on such material as soft banners (fabrics) and backlit textiles, tents and awnings, truck side curtains, POP/POS signs, large format posters, building wrapping, wall paper and PVC films for backlighting, etc...

The high colour density of 2.25 D and the ability to underprint white or use it as a spot colour, enables both the printing of coloured media and the production of photo-quality backlits. The printing of backlits is automated by the special backlit function which applies double the ink coverage in one printing operation. The high productivity, up to 170 m^2/hr on mesh, for example, is further optimised by the ability to print two 1600 mm wide, different diameter rolls simultaneously, thus utilising the full width of the equipment. Productivity is enhanced still further by the stepless skip-white function in an XY direction.

The printing operation is enhanced by an integrated manual cutting device and the user friendly, industry standard LINUX operating software. The built-in security system allows for unattended printing of large rolls and double sided printing is made possible thanks to the laser driven registration.

Quadro® Array Technology

Technology

The Rho 351R uses Durst Quadro Array print head technology with 512 nozzles compactly arranged in an Array and continuous flowing, temperature controlled ink. Coupled with Durst's proprietary firing impulse software, which controls the precise setting of ink drops at high frequency, ensure the printing of fine text (as small as 4 point) even on polyester fabrics without wicking, as well as strong solid colours and step-free color shades. Brush-stretch rollers and a tension regulation device transport even thin fabrics precisely and crease-free through the printing equipment. The UV lamps, with dichroitic coated reflectors, are adjustable in steps and cure the UV inks even on temperature-sensitive media.

The touch-screen user software is based on printing experience and is driven by industrial standard LINUX operation software and ensures reliable, 24/7 production.
The software functions include:
- Media channel, archiving for the selected tension for each media the selected, UV lamp step, pass, tension selection, vacuum strengths, and "tuning option" to compensate temperature related media characteristics
- Skip white function (passes over unprinted areas in XY direction)
- Queue function with selection criteria
- Backlit function in order to print double ink layer in one printing process
- Interface to external order management
- Efficient workflow with color management based on external Caldera RIP Server
- Automated workflow using RIP-Job-tickets and hot folders with saved speed-passes, color management and simultaneous administration of queue and hot folders.
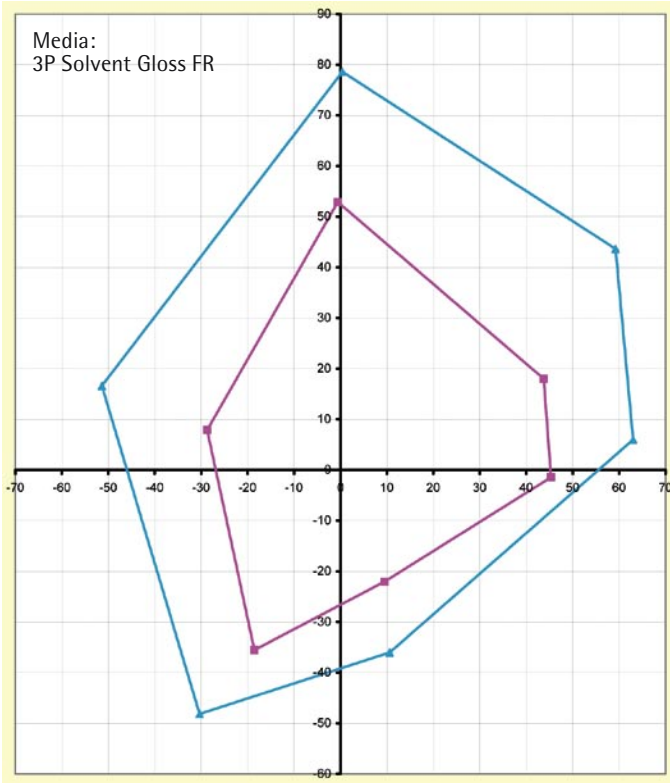
Advantages

Rho 351R product features:
- Addressable resolution 400 x 400, 400 x 600 dpi at your choice, in 6 passes according to the needs of quality and productivity
- CMYK Rho Roll Inks and 2 spot colours (white over/underprint, functional varnish, orange, green and ocean blue. UV curable inks allows for immediate use of printed material
- Low ink consumption achieved by high pigmented inks providing low ink cost/m²
- Environmentally friendly ("green technology"), no VOC's
- Easy and fast media change with max. 70 cm media waste/change
- Virtually odourless, high density inks with high flexibility, no wicking on fabrics, and high colour retention from the use of pigments with an 8 classification on the Blue Wool Scale
- Unattended printing of big rolls is provided due to the built in security system (GSM modul with error warning via mobile phone - optional)
- Simultaneous printing on 2 rolls (each 1600 mm/excluded fabrics) even of different diameter
- User-friendly operating software with management functions (ink usage/job, total ink consumption, print-time/job etc) and interface to external order check software
- Double sided printing with optical-based registration (single rolls)
- Highly productive workflow from simultaneous ripping/transfer and printing of files through additional RIP workstation
- Integrated manual cutting device
- Industrial standard LINUX operating software

Media:
3P Solvent Gloss FR

→ Rho Roll Ink
■— Solvent Ink

The Rho Roll Ink shows a far wider color gamut than solvent inks especially on polyester fabrics.

Rho-Roll Ink

Durst has developed for the Rho 351R a specific, virtually odourless UV curing acrylic ink which guarantees quick curing, high adhesion, even on uncoated surfaces and high flexibility. The high pigmentation of the ink provided high colour density with wide colour gamut. The output is immediately usable after printing without any post-treatment. The high flexibility of the ink ensures that uncoated fabrics can be printed without wicking and UV pre-coated fabrics show no white breaks.
Thanks to the properties of the Rho Roll inks flame-proof material retain their properties also after printing.

A special mechanical and electronic device (optional) allows the simultaneous printing on 2 rolls, each 1600 mm width, even of different diameter

The integrated manual cutting device secures operation-friendly cross cutting

Technical Data

Dimensions:
Width: 7400 mm (24.27ft)
Depth: 2720 mm (8,92.ft)
Height: 2480 mm (8,13ft)

Weigth:
4400 kg (9700 lbs)

Front-end workstation

Type:
HP Workstation XW 4400 with dual Intel
XEON 3.4 GHz. processor, 2 GB RAM,

Hard discs:
1 x 73 GB SCSI-10000 RPM,
2 x 146 GB SCSI-15000 RPM,

Drive:
DVD ROM and CD-RW

Operation SW:
Redhat Enterprise LINUX WS EM 64 T

Monitor:
19" touch screen

RIP Processor:
RIP Workstation with Caldera Grand RIP,
SW with integration (separate license)
for cutter (Esko-MGE, Fotoba) and ICC-
Profiling (Barbieri Spectrophotometer
– optional).

Printing Specification

Speed passes	linear speed cm/min	qm/hr*
Rho 351R-8		
Pass 1	45,5	85,5 m^2
Pass 2	29	52,5 m^2
Pass 3	19,25	36,5 m^2
Pass 4	16,25	28,5 m^2
Pass 5	13,6	23,2 m^2
Pass 6	11,4	19,8 m^2
Rho 351R-16		
Pass 1	91	171 m^2
Pass 2	58	105 m^2
Pass 3	38,5	73 m^2
Pass 4	32,5	57 m^2
Pass 5	27,25	46,5 m^2
Pass 6	22,75	39,5 m^2

*calculated on 3500 mm media width at
400 dpi bi-directional printing;
at 4oo x 600 dpi speed reduction
approx. 30 %

Resolution:
400 x 400 dpi or 400 x 600 dpi addres-
sable (apparent 800/1200)

Colours:
CMYK, optional 2 spot colours: white,
varnish, selected spot colours
Ink: Rho Roll Ink, pigments classified at
Blue Wool scale 8

Ink supply:
through integrated 10 l. tanks and Durst
pat. Cubitainer system is re-fillable during
printing without any contact with ink.
Corrugated Cubitainers with internal
shrinking plastic containers are environ-
mentally-friendly disposable

Media specifications:

All flexible media, including:
Blue back paper, Coated and uncoated
fabrics, (polyester, cotton, linen etc.)
Canvas, coated and uncoated
Vinyls, tarpaulin up to 980 gr/m^2
Self-adhesive PVC

Max. width:
3500 mm

Max. thickness:
2 mm (depending on media)

Max. length:
limited only by roll length

Max. roll diameter:
450 mm outside diameter (17,7 in.)
3500 mm width, resp. 2 x 1600 mm,
max. weight: 300 kg (661 lb).

Ambient conditions:

Max. sea level of installation:
2400 m above sea level (8000 ft)

Max. ambient temperature:
+15 °C bis +30 °C (59 °F to 86 °F)

Max. humidity:
20-80 %, not condensing

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