

Rho 512R

The super-wide 12 picolitre roll to roll UV inkjet printer with Variodrop technology

The Rho 512R sets the quality standard for high end industrial inkjet productivity.

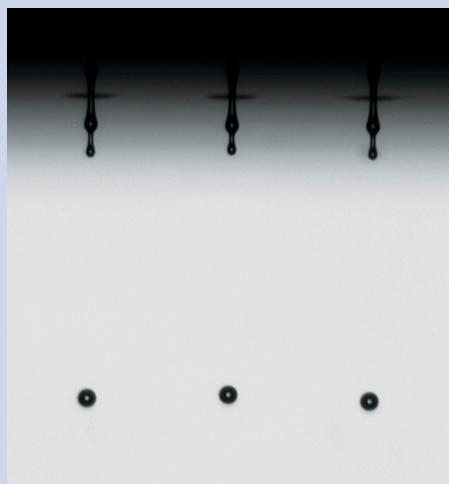
This is due to Durst's latest Quadro Array 12M printhead technology which features a very small ink drop size of only 12 picolitres. With its very small ink drop size it is capable of printing with unrivalled quality up to 800 dpi and a speed of up to 350 m² per hour. Furthermore, the Rho 512R is designed for printing a wide variety of large format advertising material. It will also print three 1.6 m rolls together. With the high precision of the carriage system, the linear motor drive technology, enhanced Quadro Array technology and a printhead with over 30,000 nozzles, it achieves optimum print quality without loss of speed. Unattended printing, extremely low production costs and low ink consumption make the Rho 512R one of the most economical printers ever.



Variodrop technology

Variodrop is an adjustable binary mode which uses multipulsing for drop size modulation. It combines two voltage pulses in such a way that the second pulse pumps precise dosage amounts of ink into the droplet before it detaches from the nozzle plate without forming any satellites. Compared to the often uneven droplets formed from a not well tuned greyscale waveform, the double pulse drop shape is perfectly uniform and its placement is always evenly spaced with Variodrop.

Variodrop increases productivity by up to 25% for the Rho 512R.



Features of the Rho 512R

- Latest Durst Quadro Array printhead technology
- Low ink consumption achieved by high pigmented inks providing low ink cost/m²
- Easy and fast media change with minimum media waste
- Unattended printing of large rolls
- User friendly operating software with management functions
- Maximised workflow from simultaneous ripping/transfer and printing of files through additional RIP workstation and hot folders
- The completely VOC free UV Rho Roll Ink, accredited with the Nordic Swan certification
- Highest reliability in the market (24/7 production)

Technical Data

General specifications

Dimensions:

Width: 850 cm (27.8 ft.)

Depth: 220 cm (7.2 ft.)

Height: 208 cm (6.8 ft.)

Weight:

approx. 7500 kg (16500 lb.)

Safety standards:

Complies with currently valid guidelines
Printing specifications



Printing specifications

Printing system:

- Roll to Roll transport system with Quadro® Array 12M Technology
- Motorized head media distance adjustment, controlled via user software with storage capability for each media channel
- Integrated border cutting system (optional)
- Textile printing option for printing on Mesh without a liner (optional)

Resolution:

800 dpi

Colours:

Standard: CMYK

Optional: Light Cyan and Light Magenta, White, selected spot colours (on request)

Inks:

Rho Roll Ink - UV-curable pigment inks accredited with the Nordic Swan certification, for indoor and outdoor applications. The Rho Roll Ink, pigments classified at Blue Wool scale 8. The inks are VOC free.

Ink drying:

UV-Lamp system with 2 independent air-cooled UV-lamps (7.2 kW), adjustable in 15 power steps

Ink supply:

Integrated ink tanks with 10 litre capacity per ink, refillable during the printing process. The refill inks are in 5 litre, non-returnable containers, easily disposed in collapsed condition, thus avoiding pollution to the machine and the environment.

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

- Glossy and Matte selectable printing option
- Simultaneous file ripping, data transfer and printing
- True Skip White (X and Y direction)
- Ink cost calculation
- Integrated cellular capability for SMS notification of printer status and maintenance - SMS alert for unattended printing (optional)
- Multi-roll Printing Option for 3 individual rolls (max. roll width: 160 cm/63 in.) via 3 individual print queues
- Software and hardware for creating media ICC-profiles (optional)

Productivity:

Up to 350 m²/hour (3767 sq.ft./hour)

No speed reduction when using the 6 colour

Media specifications

Media types:

Wide range of uncoated and coated roll media types like vinyl banners and mesh for facade cladding, tarpaulin, truck-banner, polyester, textiles, canvas, paper, self-adhesive PVC, PVC/PA-transparent media types, Mesh

Maximum printing width:

500 cm (16.4 ft.)

Max. printing length:

Only restricted by media length

Maximum thickness:

2 mm (depending on media)

Max. roll diameter:

350 mm (13.7 in.) outside diameter

Max. Media width:

520 cm (17 ft.)/resp. 3 x 160 cm (63 in.)

3-rolls side by side

Max. roll weight:

approx. 350 kg (800 lb.)

Ambient conditions

Space requirement:

approx. 13 x 10 m (43 x 33 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:

25 - 80 %, not condensing



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