

Rho 160R

Roll to Roll UV Inkjet-Printer

Durst introduces a new, compact high speed roll to roll UV inkjet printer to the market leading Rho range of UV inkjet printers. The Rho 160R is engineered with the same tried and tested technology as other members of the Rho family and offers exceptional productivity, quality and flexibility. Designed for use with both Rho Roll inks and 3M UV Premium inks, the Rho 160R provides extremely durable and vibrant images for indoor and outdoor applications, which are covered by an MCS warranty for up to 5 years!

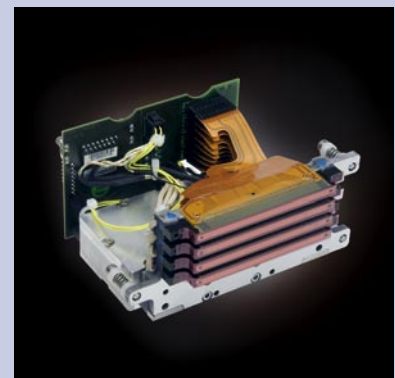


Quadro Array Technology

Durst's own revolutionary Quadro Array printhead technology achieves the combination of the highest productivity with the finest image quality and is featured in all the Durst Rho UV inkjets.

Advantages of the Rho 160R:

- High output speed – up to 65 m²/hr (700 sq ft/hr)
- 400/600 dpi (addressable)
- Maximum printing width 157,5 cm (62 in.)
- Maximum printing length – unlimited
- Integrated Cheetah PostScript RIP
- Durst Rho 160R proprietary user software based on Linux on-the-fly image processing (scaling, pixel interpolation, corrections, cropping, paneling, dithering)
- Unattended printing
- Scotchprint® Graphics brand eligibility
- Very good ink adhesion
- High flexibility of the ink and conformability of the inks around rivets and corrugations
- Fast media changing with min. media waste
- 4-color CMYK UV-Inkjet Printing System with Upgrade options for 2 spot colors



Technical Data

General specifications

Power supply:

120/208 VAC \pm 10 %, 3 phase, 3 wi, 60 Hz, or
230/400 VAC \pm 10 %, 3 phase + N/50 Hz

Power consumption:

Maximum: 12 KVA; average: 7 KVA
Max. amperage per phase:
208 VAC: 32 amp
230/400 VAC: 17 amp

Dimensions:

Width: approx. 505 cm (199 in.)
Length: approx. 201 cm (79 in.)
Height: approx. 212 cm (83 in.)

Space requirement:

Approx. 7 x 5 m (23 x 16 ft.)

Weight:

approx. 2000 kg (4400 lb)

Safety standards:

Complies with currently valid guidelines

Printing specifications

Printing system:

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

Resolution:

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

Finish:

no finish necessary

Colours:

Rho 160R: CMYK

Inks:

3M UV 2700 Premium Ink,
vibrant UV-curing, pigmented inks for indoor
and outdoor applications Solvent free (low VOC)
The Rho 160R can also be ordered with the
alternative Durst Rho Roll Ink.

Ink supply:

Continuous ink supply with 10-litre ink
reservoirs, refillable during operation for
large print processes. Refill ink in 5-litre
non-returnable containers, easy disposal in
collapsed condition, avoiding pollution to
the machine and the environment.

Software/RIP:

Durst Rho 160R Linux software with
on-the-fly image processing (scaling,
pixel interpolation, dithering/screening,
sharpness correction, trimming, panelling
and further corrections) for very fast
processing with minimum storage capacity
occupation on the hard disk. Integrated
PostScript Level 3 RIP Dice America Cheetah.
The function range of the Rho 160R software
reflects that of the Durst Lambda software,
which is regarded as both userfriendly and the
most powerful printer software on the market.

File formats:

- Grey levels CMYK and RGB TIFF, TIFF/
LZW, BMP and JPEG
- CMYK-Tiff
- PostScript Level 2 and 3
(PS, single or multipage documents, including
CMYK, RGB and grey level images),
only Type 1 typefaces
- PDF (single or multipage documents)
- EPS

Productivity

Rho 160R-8:

Up to approx. 26 m²/h (280 sq.ft./h)

Rho 160R-16:

Up to: 65 m²/h (700 sq.ft./h)

Printing modes:

Colour, gloss/matte, black and white, "backlit"

Front-end workstation

Type:

HP Worstation XW 4400

RAM:

2 GB

Hard disks:

3 x 73 GB SAS 3 GB/sec. with 15000 RPM Drives,
DVD-Rom/CD-RW

Operating system:

Pre-installed RedHat Enterprise Linux WS EM64T

Monitor:

HP TFT 19" Monitor L1955

Network Interface:

Ethernet 100/1000 Mbit

Printing specifications

Media types:

Wide range of all uncoated and coated 3M
media types and other media types with similar
characteristics.

Maximum printing width:

Up to 1575 mm (62 in.) with border and no edge
to edge option.

Max media weight:

Limited only by maximum outer diameter of
supply roll and/or max. weight.

- Lower position 1: approx. 35 cm up to
200 kg (445 lb. with pneumatic axle
(media feeding side) and with optional
accessory at the take up side Rho Axle
Pneu 76 74 to 82 mm (2.9 to 3.2 in.)
- Upper position 2 & 3:
approx. 25 cm (9.8 in.) up to 35 kg (77 lb.)

Max. medium thickness:

0.15 mm up to 2.5 mm

Medium cutoff:

Approx. 40 cm (16 in.) at the leading edge

Media cutting:

Mechanical guide for manual cutting of the roll

Location requirements:

Maximum height:

2,400 m (8,000 ft) above sea level

Temperature range:

+15 °C to +30 °C (+59°F to 86°F)
non-condensing

Relative air humidity:

25 - 80 %, non-condensing



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