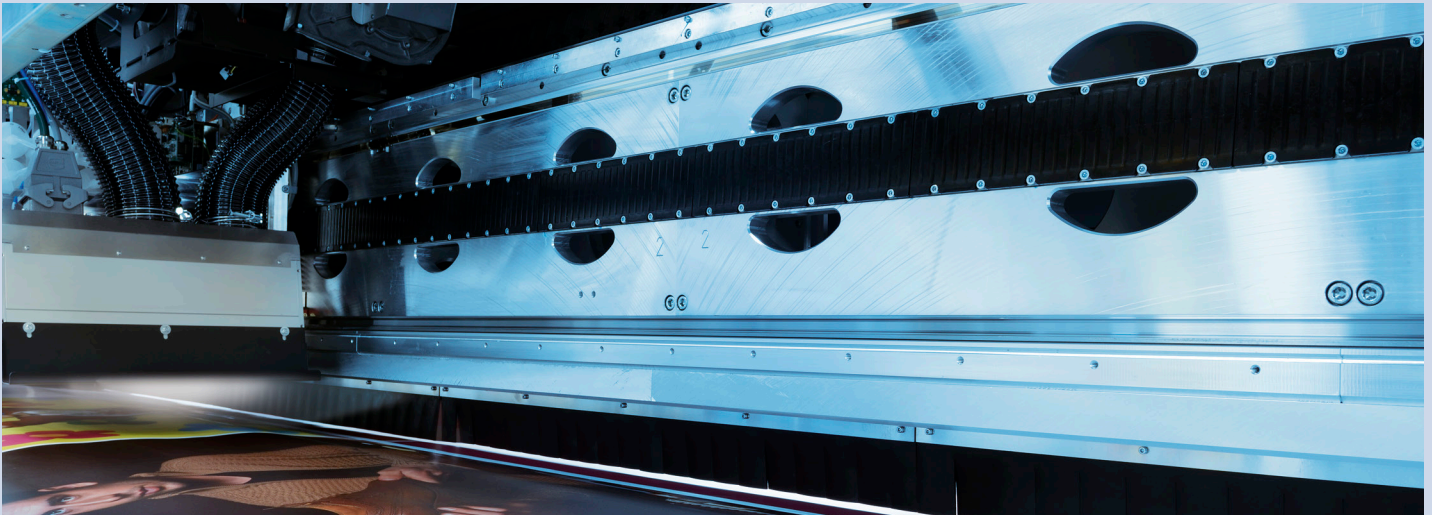


## The Rho P10 Series

The most versatile and productive  
10 picolitre UV printers in their class



The new Rho P10 Series of inkjet printers defines a new quality standard for industrial production level machines. There is no compromise between speed and quality with the new machines you have both. Added to that, as with other Durst flatbed and roll to roll printers, they provide unrivalled versatility thanks to their ability to print on the widest range of rigid and roll media.

The Rho P10 Series provides a range of machines designed to ideally suit a wide range of applications. The range includes the world's most versatile 2m wide UV flatbed, the P10 200, with its high level of modularity, and the P10 250 continuous industrial UV flatbed printer with unrivalled production efficiency and capability. The P10 320R UV printer offers a new quality standard for industrial roll to roll printers and has a maximum printing width of 3.2m (by any length).

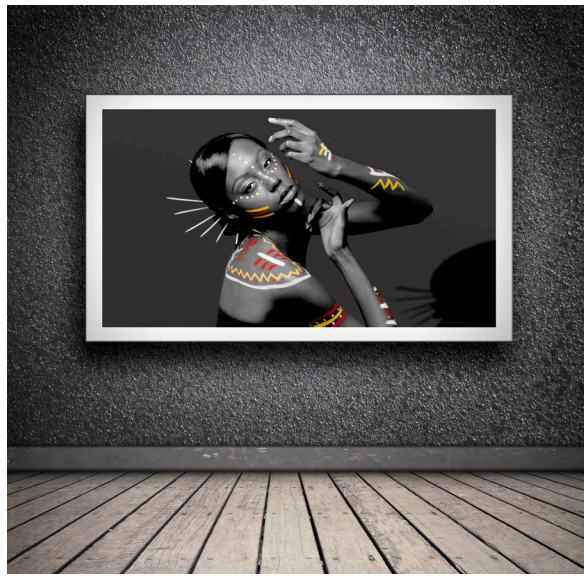
The new machines are designed for use by all large format printers who wish to provide a level of quality that will allow for close up viewing of a wide range of advertising and corporate promotional material. From indoor and outdoor signage to POP material, packaging and backlit luxury goods, the new P10 Series will provide a real business opportunity from their unrivalled versatility and productivity.

**Durst.** The industrial inkjet specialist

## Rho P10 200/250 UV flatbed printers

The most versatile and productive 10 picolitre flatbed printers in their class

The P10 200/250 inkjet printers are the most versatile and productive 10 picolitre UV printers available. With Durst's latest Quadro Array 10 printhead technology, they offer unrivalled print quality without loss of speed. The machines are manufactured with the finest components to Durst's own exacting standards. They combine compact, robust industrial design with production efficiency and reliability making them true industrial printers capable of the highest level of uninterrupted production with minimum downtime.



Engineered by Durst for performance, reliability and versatility, the key benefits of the P10 flatbed machines include:

- Latest Durst Quadro Array 10 printhead technology for outstanding print quality without loss of speed
- Continuous printing process maximises productivity (no pauses for masking found in a table system)
- Mechanical front stops enabling accurate parallel printing of boards side by side
- Perfect print registration on long boards due to mechanical front stops
- Roll to roll printing options
- Printing of light colours and process colour addition (orange and violet) without loss of speed
- Ease of use and fast maintenance optimises production efficiency
- Highest reliability in the market (24/7 production)



# Rho P10 320R UV roll to roll printer

## The fastest 10 picolitre UV printer in its class

The Rho P10 320R UV inkjet printer establishes a new quality standard for industrial roll to roll printing. Precision components developed by Durst, including the Quadro® Array 10 printhead technology and the magnetic linear drive carriage system, are essential innovations in the new machine.

The "Fine Art" quality is ideally suited for high visibility, backlit applications. It will also print directly onto textiles and stretch media.

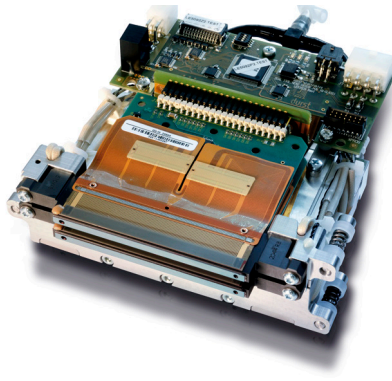
Productivity is enhanced by its ability to print 1.6m rolls of material side by side, with different images on each, and the use of the large roll option allows for unattended operation.



### Rho P10 320R product features:

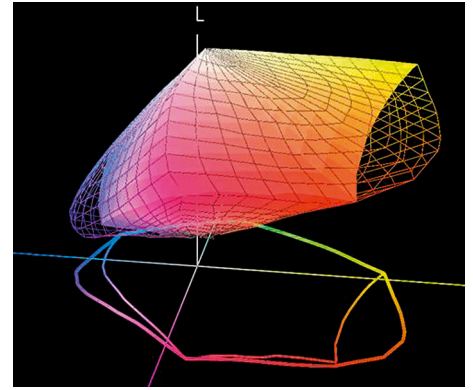
- Latest Durst Quadro Array 10 printhead technology for outstanding print quality without loss of speed
- Low ink consumption achieved by high pigmented inks providing low ink cost/m<sup>2</sup>
- Easy and fast media change with minimum media waste
- Unattended printing of big rolls is provided due to the built in security system (GSM module with status message via mobile phone)
- User-friendly operating software with management functions
- Highly productive workflow from simultaneous ripping/transfer and printing of files through additional RIP workstation and hot folders.

# Durst Rho P10 Series advanced printing technology



## Durst Quadro Array 10 printheads

At the heart of each printer are the new Durst 10 picolitre printheads. These create the stunning 'fine art' print quality with up to 1000 dpi resolution, finer tones and the option of additional light colours (light cyan and light magenta) for perfect colour reproduction, whilst maintaining Durst's outstanding levels of productivity and flexibility.



## Magnetic linear drive

The carriage transport is by advanced magnetic linear drive. This further ensures consistently accurate printing. Precision built by Durst for greater accuracy and reliability, the shaft on the Rho P10 320R is accurate to within  $2\mu$  tolerance, for example. The materials used in manufacture are of the highest quality which results in consistent high performance and the most reliable machines in the market. This ensures 24/7 production and minimum downtime.

## Durst Rho Inks

Durst Rho inks offer perfect performance to the widest range of media. Their high level of pigmentation provides excellent coverage and cost efficiency as a result of requiring less ink per square metre.

Rho Roll Ink is the most economic and technically optimized solution for flexible media. It is optimised for fabrics, vinyls, and other flexible material such as self adhesive foils/transparent film, papers fabrics and stretch material. They also have low odour and contain no VOC's.

Rho Roll Ink, has been awarded with the Nordic Swan Environmental Accreditation.

The Rigid Ink, used in the P10 flatbed printers, has the best adhesion on rigid board applications. It is designed for a wide range of board media such as soft and hard foam boards, polycarbonate, acrylics, metals and PVCs. The ink has also enough flexibility to be cut without chipping and to be used on flexible media.

## Rho P10 200/250

### Technical Data

#### General specifications

##### Dimensions:

###### Rho P10 200

Width: 540 cm (213 in.)

Length with roll tables: 455 cm (180 in.)

Length without roll tables: 180 cm (71 in.)

Height: 196 cm (78 in.)

Weight Approx. 3.500 Kg (7.800 lb)

###### Rho P10 250

Width: 585 cm (231 in.)

Length with roll tables: 455 cm (180 in.)

Length without roll tables: 180 cm (71 in.)

Height: 196 cm (78 in.)

Weight Approx. 3.700 Kg. (8.200 lb)

##### Safety standards:

Complies with currently valid guidelines

#### Printing specifications

##### Resolution:

1000 dpi

##### Colours:

Standard: CMYK

Optional: Light Cyan and Light Magenta, White, Process Colour Addition (PCA)

##### Inks:

UV-curable pigment inks for interior and exterior applications.

##### Software/RIP:

Durst Rho Linux software for very fast processing with minimum storage capacity on the hard disk.

External Caldera RIP Server (GrandRip+)

##### Productivity:

**Rho P10 200:** up to 205m<sup>2</sup>/hour (2.200 sq.ft./hour) – continuous printing at full width

**Rho P10 250:** up to 240m<sup>2</sup>/hour (2.500 sq.ft./hour) – continuous printing at full width

#### Media specifications

##### Maximum printing width:

**Rho P10 200:** 205 cm (6.5 ft)

**Rho P10 250:** 250 cm (8 ft.)

##### Maximum printing length:

Only restricted by media length

##### Maximum thickness:

Standard: 40 mm (1.58 in.)

Industrial Version: 70 mm (2,75 in.)

##### Maximum media weight on belt:

Standard: up to 50 kg (110 lb)

Industrial Version: up to 70 kg (154 lb)

##### Smallest sheet size:

DIN-A3 – 29.7 x 42 cm (12 x 17 in.)

#### Ambient conditions:

##### Space requirement:

Min. 8 x 6 m (26 x 20 ft.)

##### Max. sea level of installation:

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

## Rho P10 320R

### Technical Data

#### General specifications

##### Dimensions:

Width: 680cm (22.30 ft.)

Depth: 162cm (5.32 ft.)

Height: 215cm (7.05 ft.)

##### Weight:

approx. 4500 kg (9900 lb.)

##### Safety standards:

Complies with currently valid guidelines

#### Printing specifications

##### Resolution:

1000 dpi

##### Colours:

Standard: CMYK

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

##### Inks:

Rho Roll Ink – UV-curable pigment inks for indoor and outdoor applications. The Rho Roll Ink, pigments classified at Blue Wool scale 8. The inks are VOC free.

##### 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

##### Productivity:

up to 190m<sup>2</sup> (2.000 sq.ft)/hour – continuous printing 6 colour

#### Media specifications

##### Maximum printing width:

320cm (10.5 ft.)

##### Max. printing length:

Only restricted by media length

##### Maximum thickness:

2 mm (depending on media)

##### Max. roll diameter:

450mm (17.7 in.) outside diameter

##### Max. roll weight:

approx. 300 kg (661 lb.)

#### Ambient conditions:

##### Space requirement:

approx. 9 x 9m (30 x 30 ft.)

##### Max. sea level of installation:

2400m above sea level (8000 ft.)

##### Temperature range:

+15 °C to +30 °C (+59°F to 86°F)

##### Relative air humidity:

25 - 80 %, not condensing

# Durst. The industrial inkjet specialist

Since 1938 Durst has been responsible for pioneering better and faster methods of large format image reproduction. The company started with analogue photo technology and later moved into digital photo laser imaging. It was one of the first to develop large format inkjet printing, initially for the graphic arts market and, most recently, it successfully extended the technology to different industrial inkjet applications. Today, we see ourselves as an industrial inkjet specialist. Our new research building in Lienz, Austria, is evidence of our commitment to both the science of inkjet printing and our pursuit of new applications for inkjet printing.

Our systems have the ability to change existing markets and provide our customers with new business opportunities. We also make it our duty to ensure sustainable development, providing machines that are kinder to the environment and use much less ink and energy. We are concerned with minimising storage and wastage by providing the ability to print on demand across many different applications and industries.

By optimising the performance of our printers through both physical and chemical sciences, we succeed in providing our customers with a competitive and profitable edge. That is why we believe that Durst is: "The industrial inkjet specialist."



## durst

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