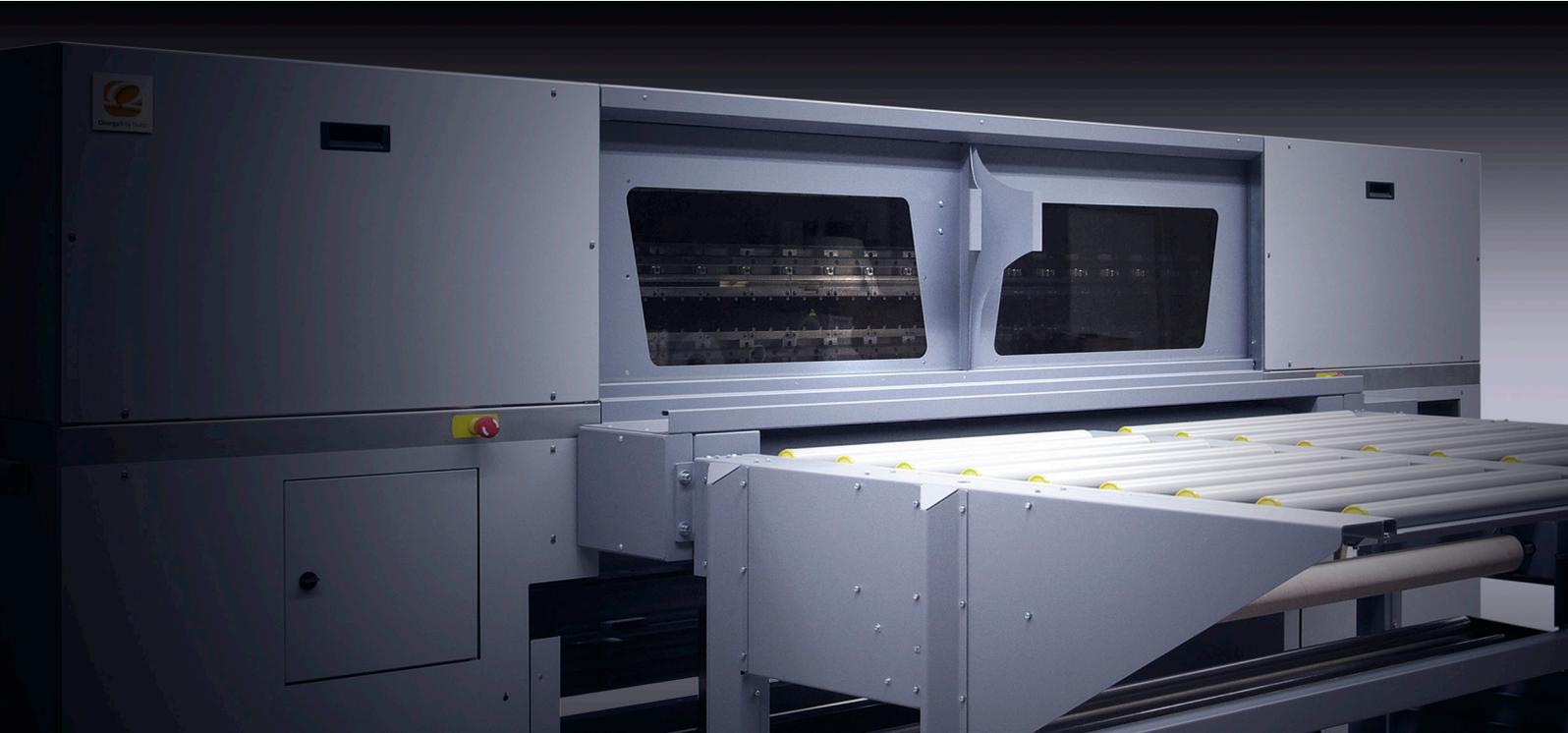# New industrial inkjet printer offering fine art quality and UV-LED drying

Omega 2 by Durst

The new UV Omega 2 inkjet printer lets graphic designers, sign makers, silk-screen print companies and photo labs get serial output with fine art print quality. The new Omega 2 ink-drying method using UV-LED technology makes it possible to print on heat-sensitive supports.

Designed with Durst's distinctive high precision and manufactured with the latest technology in the heart of Europe, like it's big sister Omega 1 the Omega 2 is fully in line with Rho tradition.

Both these printers are reasonably priced to suit the pockets and production volumes of entry-level customers.

Fine art print quality is achieved thanks to resolution up to 1728 dpi, grayscale print technology and a wider color gamut, thanks to the optional process colour additions (PCA) of orange and violet, gray, light magenta and light cyan. A magnetic linear drive system plus state-of-the-art sensors make for high-precision printhead transport, and the Omega 2 also features an electrostatic device on the printheads that in the continuous-printing mode ensures fine work on acrylic sheets and panels without depositing aerosol.

This makes the Durst printer eco-compatible and safer for operator health compared to bench equipment that has no covering and uncontrollably emits aerosol into the work environment.

The Omega 2 combines decades of experience in flatbed and roll-to-roll printing with the most up-to-date construction technology, providing extremely versatile flatbed and roll-to-roll printing.

The Omega 2 easily prints in both modes, not only on rigid supports like Kapa®, Forex®, Dibond®, acrylics and wooden panels with maximum thickness of 5 cm but also on self-adhesive sheets, paper, PVC vinyl, PE sheets or fabric with width up to 160 cm. All you need is a 15 square meter platform to be able to do great things: top-quality images 160 cm wide and with length limited only by the panel or roll, with output of up to 35 square meters per hour.

The Omega 2 LED-dried inks offer perfect adhesion even to the most difficult surfaces like metal, polycarbonate and acrylic, a feature very important for sign makers and graphic artists working in advertising. The inks' liter containers and great resistance guarantee optimal performance even at low production levels.

The Omega 2 is the ideal tool for graphic designers, silk-screen printers, sign makers, fine art print makers, photo labs and printing firms wishing to get into digital UV inkjet technology without taking any risks: now, with the new Omega 2 entry-level model from the biggest expert in inkjet printing they can do just that.
The double-white mode makes it possible to print white without any reduction in productivity.

High technology at an affordable price.

Printer features

Printing system:
Patented Durst UV inkjet flatbed and roll-to-roll: top quality prints and speedy output.

Resolution:
Up to 1728 DPI, grayscale 1200x900 DPI

Colors:
Standard version: CMYK
Plus version: CMYK, light magenta and light cyan
Optional: gray, white, double white

Inks:
Special UV-LED-dried inks, for indoor and outdoor uses.

Ink feed:
Incorporated ink tanks permitting top-up during printing.
The simple refill system using disposable 1-liter containers keeps the machine from being soiled and the containers are easily compacted for eco-compatible disposal.

Software/RIP:
The Omega 2's Linux software ensures very fast processing and occupies minimal hard disk space.
External Caldera RIP server (CopyRip)

Output:
Up to 35 square meters per hour.

Support specifications

Types of support:
A wide range of rigid and flexible supports. Coated and non-coated surfaces, such as hard or soft foam sheets, aluminum, acrylic, glass, poly-carbonate, self-adhesive sheets, paper, PVC vinyl, PE sheets and textiles**.**

Maximum print width:
160 cm, depending on the support.

Maximum print length:
Depends solely on support length.

Support thickness:
Roll-to-roll: up to 2 mm, depending on the support.
Panels: up to 50 mm.

Maximum support weight:
Roll-to-roll: up to 50 kg
Panels: up to 50 kg

Minimum panel size:
DIN-A3 (29.7x42 cm)
Using a template you can print several small panels (such as business cards) at the same time.

Table-Pro
Perforated vacuum tray for front-back printing, extremely precise on small posters (border length >10 cm). The fully equipped tray is rasterized by Caldera Compose software as a single file (Caldera RIP required).

Calibration:
The panels are calibrated by a mechanical frontal stop and a choice of left or right alignment.
An encoder gauges the transport sequences, ensuring maximum precision.

General specifications:

Size:
Printer: 380 cm long, 105 wide, 170 high

Weight:
About 2,000 kg (4410 lbs.)

Safety standards:
Conformant to currently valid European Directive 2006/42/EG

Location requirements
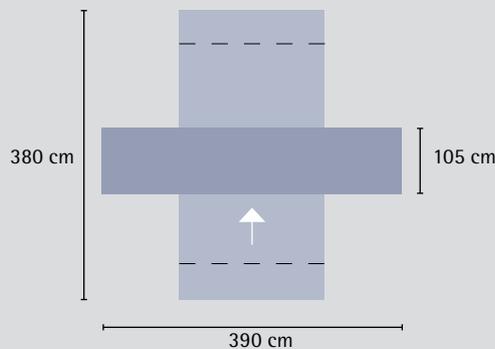
Space requirement:
See sketch below

Maximum height:
2.400 m (8.000 ft) above sea level

Temperature range:
+15°C to 30°C (+59°F to 86°F)

Relative air humidity:
25 – 80%, non-condensing

380 cm | 105 cm

390 cm

Omega 2 by Durst

Manufactured by

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Sales/Service