



Rho 1000

Continuous inkjet production system

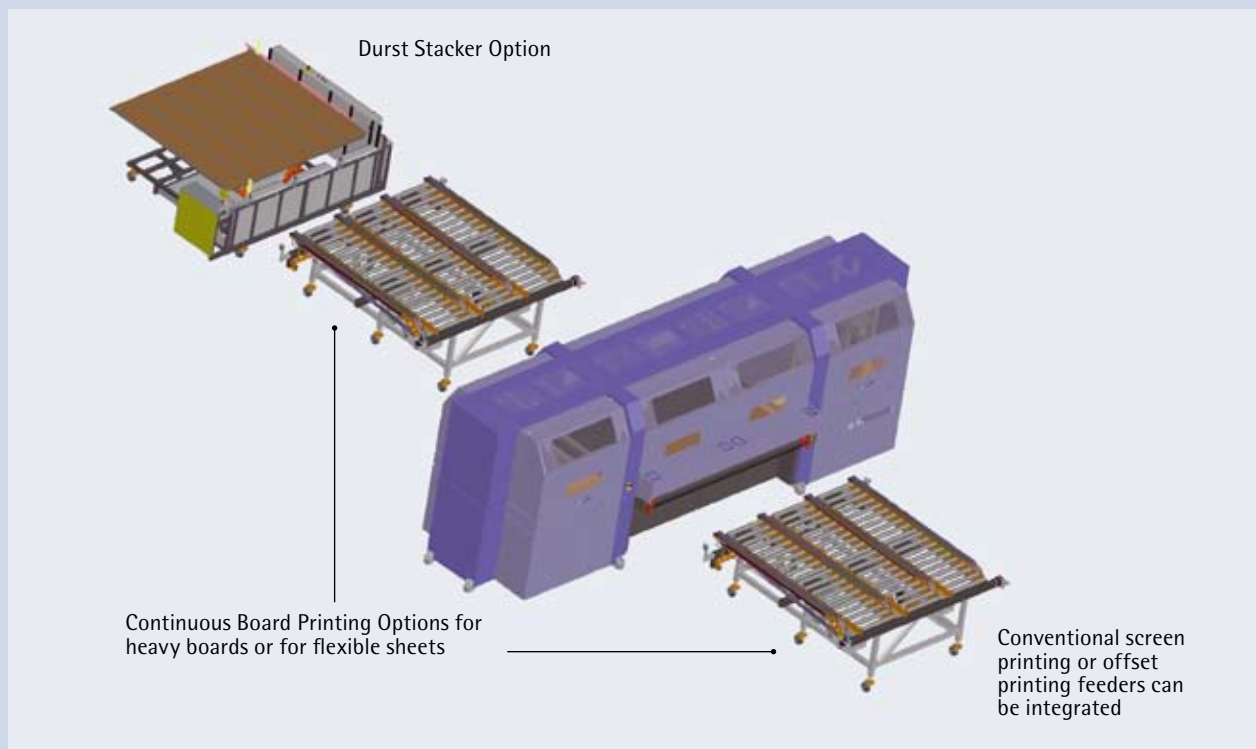


The new Rho 1000 is a continuous UV printer which can be integrated into existing manufacturing processes. That makes it unique. Durst's top model guarantees an impressive maximum output of up to 600 boards per hour (125 x 80 cm/4 x 2,6 ft.), without interruption, around the clock, while ensuring optimum quality. The two decisive factors behind this achievement are the further development of the revolutionary Quadro Array printhead technology and Durst's efficient workflow configuration which can integrate into existing manufacturing processes (screen and offset printing).

Benefits include:

- Continuous board printing
- Minimum set-up times (no "masking" required)
- Optimum material flexibility (sheets, heavy boards, roll media)
- Print orders for customers can be completed in one go using the widest range of media
- The Rho 1000 can be loaded and unloaded using screen printing methods and systems
- Outstanding reliability for 24/7 production

Fast cleaning combined with long cleaning and maintenance intervals, together with reliable service and in-house technical training also help to achieve the fast and cost-effective completion of print orders.



Technical Data

General specifications

Dimensions:

Width: 716 cm (282 in.)
Length with roll tables: 510 cm (201 in.)
Length without roll tables: 230 cm (91 in.)
Height: 258 cm (102 in.)

Weight:

Approx. 7.500 kg (16.600 lb)

Safety standards:

Complies with currently valid guidelines

Printing specifications

Printing system:

Patented Durst flatbed system with Quadro® array technology for the finest quality and the highest speed.

Resolution:

600 dpi

Colours:

Standard: CMYK
Optional: Light Cyan and Light Magenta, White, spot colours (on request).

Inks:

UV-curable pigment inks for interior and exterior applications.

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 Linux software for very fast processing with minimum storage capacity on the hard disk.
External Caldera RIP Server (GrandRip+)

Productivity:

up to 600 sheets/hour
(125 x 80 cm/4 x 2,6 ft.) with Continuous Board Printing Option

Media specifications

Media types:

Wide range of uncoated and coated materials – also textured surfaces such as hard foam sheets, soft foam sheets, aluminium, acrylic glass, polycarbonate sheets etc.

Maximum printing width:

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 120 kg (265 lb)

Smallest sheet size:

DIN-A3 – 29.7 x 42 cm (12 x 17 in.)

Registration of materials:

Materials are registered at the leading edge by means of fibre optic sensors or alternatively by mechanical front stops. Parallel and continuous loading of sheets is optional. An encoder measures the transport sequences, ensuring utmost precision in image alignment.

Location requirements

Space requirement:

Min. 10 x 8 m (33 x 26 ft.)

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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