

Rho 700

A new generation of modular UV flatbed printers

The Rho 700 UV flatbed printers from Durst represent a new generation of modular, upgradeable flatbed printers which offer higher productivity and even finer image quality.

The outstanding performance and reliability is the result of the precision of key components developed and produced by Durst:

- Advanced and perfected Quadro® Array inkjet technology
- A new concept for the print carriage with a magnetic linear drive system
- More efficient workflow due the new Durst proprietary user software

Unique in its class:

The modular build concept

No other UV flatbed printers can be adapted to individual needs or be upgraded later in the field to the same extent. A number of optional features are available:

Ink variety:

- Special colours including white and special effect varnish
- Light colours for finer image quality
- Specific inks for rigid, flexible or absorbing media

Material flexibility:

- Printing of roll media including heavy roll option
- Special features for printing heavy and/or thick boards
- Corrugated print option

Productivity:

- Speed upgrade by doubling the number of Quadro Arrays from 4 to 8
- Mechanical front stops enabling parallel printing of boards side by side
- Automation for printing onto corrugated boards



Designed for high quality, industrial performance and able to be tailored to specific business requirements, the Rho 700 provides the perfect solution for screen printers, photo laboratories and digital printers.



Technical Data

General specifications

Dimensions:

Width: 540 cm (215 in.)
Length with roll tables:
460 cm (181 in.)
Length without roll tables:
190 cm (75 in.)
Height: 195 cm (77 in.)

Weight:

Approx. 3.300 kg (7.300 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, clear varnish for special effects, spot colours (on request)

Inks:

UV-resistant 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:

Rho 700 Basic:
up to 50 m² per hour on full width at continuous production

Rho 700 Presto:
up to 100 m² per hour on full width at continuous production

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:

205 cm (80 in.)

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
Industrial Version: up to 70 kg

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 (Option). An encoder measures the transport sequences, ensuring utmost precision in image alignment.

Location requirements

Space requirement:

min. 8 x 6 m (26 x 20 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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