Pictocer HD
Ceramic Lab Printer

Durst Pictocer HD is a compact digital ceramic inkjet printer which uses pigmented ceramic inks for firing temperatures up to 1250°C and therefore the ideal printer for different small run printing applications, such as:

- Developing new ceramic tile designs at design bureaus and ink manufactures
- In-house developing and testing new designs/products at ceramic tile manufacturing companies with High-Performance Digital Printers (such as Durst Gamma) in operation at their main stream factories.
- Third fire applications (ceramics and glass decoration)
- Printing small runs and custom products, photoceramics, etc.

Digital ceramic inkjet print

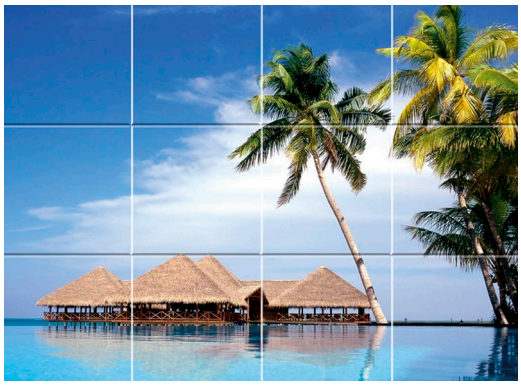
Durst Pictocer HD uses exactly the same pigmented ceramic inks as used with Durst Gamma, the new standard for the digital decoration of ceramic tiles and used by all the leading ceramic tile manufactures in the world.
By using the same inks Durst Pictocer HD can simulate the final ceramic tile, such as floor and wall and tiles (porcelain, single and double fire) as well as decorative listellos produced afterwards with Durst Gamma and anticipate the production costs.
The unique continuous tile transport system allows to decorate different type of ceramic products and tiles from very small decorative trim pieces (listellos/photoceramics, etc.) without any size limitations and up to a max. thickness of 50mm.
To assure a reliable, long-term operation the Durst Pictocer HD features a permanent ink recirculation in the ink circuits and print heads with automatic maintenance cycles, proven in more than 100 Durst Gamma printers in operation.

Key Advantages/Benefits:

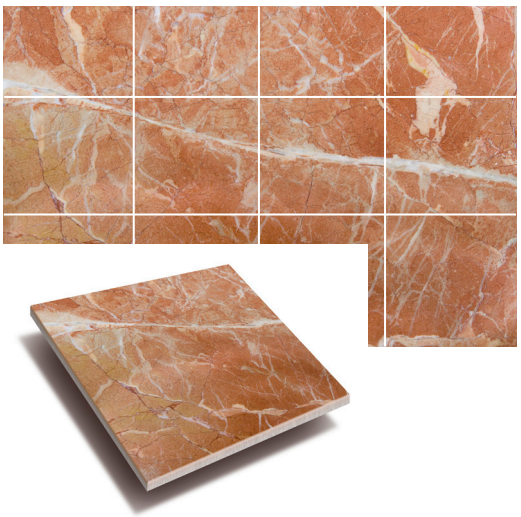
- Continuous transport system with hand fed manually pre-loaded trays to easily handle small and larger parts without size restrictions and limitations
- Max. printing width of 155cm (61 in.) by any length
- Maximum tile or trim piece thickness: 50mm (1.98 in.)
- Main ink tank capacity of 1.5 Liters (0.4 US gal) to assure always fresh ink also with small runs and sporadic operation
- Same ink set as Durst Gamma
- Permanent ink recirculation in all ink circuits and the print heads with automatic maintenance cycles for long-term reliability
- Productivity of approx. 7-10 m^2 per hour
- Patented „Ringaround" function for fast and automated testing for new designs and when repeating jobs, thanks to the Durst proprietary and patented On-the-fly image processing technology
- Integrated ink cost and ink consumption calculation per design and sqm to anticipated the production costs for a new product prior to start production

Porcelain House Numbers

Photoceramics

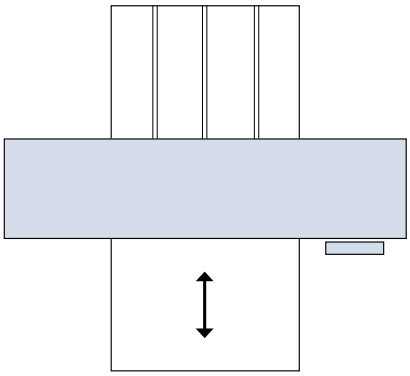


Mosaics

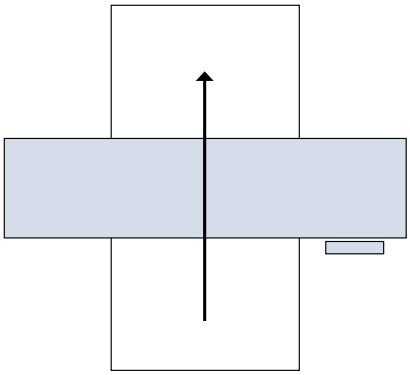


Developing new ceramic tile designs

Media transport options with the printing plate

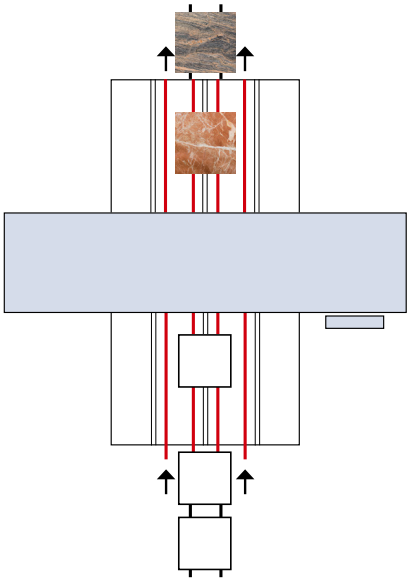


Printing plate returns to the loading position after printing is completed



Printing plate is transported through the printer to the other side.

Automatic tile feeding and unloading system with conveyor belt (Optional)



For integration of the Durst Pictocer HD in a production line with automatic tile transport.

Technical Data

General Specifications

Power Supply:
Single phase +N + PE 230 V (+/- 10%) 3,7KVA 50Hz,
Max. Ampere: 16
Max. Power Consumption: 3,7KVA 50Hz
Average Power Consumption 1,5KVA
Power Outlet Protection: 2x16A

Dimensions (L x W x H)
Without front and back tables:
3800 x 1250 x 1800mm (150x49x71 in.)

With front and back tables:
3800 x 4050 x 1800mm (150x160x71 in.)

Space requirement (Pictocer HD with tables):
Min. 6 x 4m (20x13 ft)

Weight:
Approx. 1800 kg (4000 lb) divided to 4 legs (without tables)

Safety Standards:
complies with currently valid guidelines

Printing Specifications

Printing System:
Flatbed printer/plotter with patented Durst Durst HD – High Definition Technology

Printing modes:
Simulation of different printing technologies/ print qualities:
- Durst Gamma 60/70 – High Speed Multidot Grayscale Printing Technology
- Durst Gamma 75 HD – Advanced High Definition Contone Grayscale Technology @ High Speed Printing
- Pictocer HD proprietary printing quality

Resolutions:
Max. resolution 400x600 dpi

Colors:
4, 5 o 6 colors at your choice and upgradable

Inks:
Special, Patented Pigmented Ceramic Inks for decorating floor and wall tiles, as well as third fire applications. Same inks as used with Durst Gamma

Firing Temperatures:
From 500°C to 1250°C depending on glaze used

Main Ink Tank Capacity:
1.5L (33.8 fl oz (US) per color

Ink Supply:
Ink supply system designed for continuous, non-stop operation with user-friendly refill system.

Software:
Proprietary and patented 64 Bit LINUX based Durst Pictocer HD software with intuitive workflow and sophisticated, powerful job preparation and print controls for fast and easy operation.

Native File Format:
CMYK-TIFF

Productivity:
7-15 m^2/h (75 – 162 sq ft)

Media Specifications

Ceramic Tile Types:
Wall and floor tiles (ceramic and porcelain tiles) in form of
- Green tile bodies (monocottura – fired once)
- Fired bisque (bicottura – fired twice)
- Ceramic trim pieces – Listello (terzo fuoco – third fire)

Tile Thickness:
3 to 50 mm (0.12 – 1.96 in.)

Max. weight-loaded:
70kg (155 lb) distributed on printing plate

Environmental Requirements

Temperature Range:
+15°C to +30°C (+59°F to 86°F) without tile condensation

Relative Humidity:
25-80 % non condensing

durst

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