

NEW 8-UP CTP

...for a fraction of the price of a laser CTP?!

This flyer was printed with



DROPLET TO PLATE

It's possible.



laser quality

with innovative inkjet technology

large format

up to 770×1030 mm



low cost plates

similar price tag to thermal CTP plates

simple, small, reliable

footprint: 200×150 cm



conventional halftone

175 lpi, sharp dots

3-in-1

platesetter, filmsetter, proofer



impressive speed

15 A3 plates/hour on 2880×2880 dpi

all-inclusive

CTP, RIP, exposor, developer



Powered by



MODELS



- Epson SureColor T5200 inkjet printer
- StudioRIP XF Inkjet Edition with PC
- Full HD multi-touch monitor
- UV exposure
- positioning system (sensors & solenoids)
- plate storage
- semi-automatic plate processor unit (optional)
- up to 770×1030 mm plates
- 15 plates of A3 per hour in commercial printing mode (175 lpi)
- 16 plates of 770×1030 mm per hour in newspaper printing mode (85 lpi)
- can be used as CTF (films for screen printing or flexo), as contract proofer or as color printer

36" model | DTP 36



24" model | DTP 24



- Epson SureColor T3200 inkjet printer
- StudioRIP XF Inkjet Edition with PC
- Full HD multi-touch monitor
- UV exposure
- positioning system (sensors & solenoids)
- plate storage
- semi-automatic plate processor unit (optional)
- recommended for plates that fit into 610 mm in landscape mode (e.g. 525×459 mm)
- works with any plates with one side below 610 mm (e.g. 605×745 mm)
- 15 plates of A3 per hour in commercial printing mode (175 lpi)
- 25 plates of 605×745 mm per hour in newspaper printing mode (85 lpi)
- can be used as CTF (films for screen printing or flexo), as contract proofer or as color printer

- Epson SureColor P800 inkjet printer
- StudioRIP XF Inkjet Edition license without PC
- No positioning system, no plate processor, no exposure unit
- works with plates with one side below 432 mm (e.g. 400×510 mm)
- 8 plates of A3 per hour in commercial printing mode (150 lpi), 25 plates of A3 per hour in newspaper printing mode (85 lpi)
- the halftone quality is good, but slightly below the quality of the DTP 24/36, limited to 150 lpi
- due to the lack of the positioning system, the press will need wider registration tolerance
- can be used as CTF (films for screen printing or flexo), as contract proofer or as color printer

17" model | DTP 17



WORKING PRINCIPLE

1

inkjet coated conventional plates



The system works with StudioRIP DTP plates, which are conventional positive PS plates with a special inkjet coating. The coating is applied in the factory, the plates come in sealed boxes.

2

positioning and loading the plates



The plate is positioned precisely on the loading tray using the sensors and solenoids, then loaded into the printer.

3

printing the plates



The job is printed with black ink on 2880x2880 dpi in about 4 minutes for an A3 plate, using 4 channels of the EPSON printer for the highest possible speed, featuring StudioRIP's patented Dynamic Density Modulation, Edge Enhancement and Ink Spread Compensation technologies.

4

exposing the plates



The plate is exposed with low consumption UV LEDs, with a typical exposure time of 60-120 seconds.

5

washing and processing the plates



The ink and the inkjet coating is washed off with running water, processed with conventional plate developer, washed again, then dried. The semi-automatic plate processor, connected to the running water, drain and power, takes care of keeping the water clean and the chemicals fresh.

6

ready to go!



The result is a truly conventional plate – looks, feels and behaves as if it was made by a CTCP system. Differences, if any, only visible under a microscope.

DATA SHEET



CONSUMABLE COSTS

- **Inkjet coated conventional aluminum plate**
typical European end user price is
\$6.5/m² (0.15 mm), \$7.8/m² (0.30 mm)
prices for non-European countries may vary
- **Ink** about \$0.3/m², depending on coverage
- **Chemicals** about \$0.2/m²

SYSTEM COST

- The system cost varies by country (shipping costs, customs, infrastructure), but it should be a fraction of a laser CTP price
- As a rule of thumb: the cost of the CTP unit is similar to the cost of the printer, while the RIP and the plate processor have lower cost
- Low budget customers with A3 presses and with existing plate exposure and processing facilities can start plate production with an initial investment of less than \$2500

INSTALLATION REQUIREMENTS

- **Power for CTP** 2 plugs of 230V, low current
- **Power for the developer** 1 plug of 230V/20A
- **Water for the developer** washing machine type ¾" external thread, ideally warm (30–40°C)
- **Drain for the developer** 20 mm or wider, ideally at floor level, max. 40 cm height
- **Network cable** 100/1000 Mbps UTP (for access from workstations, optional)
- **UPS & stabilizer** not supplied, highly recommended if power peaks are possible

TECHNOLOGY

- **Plate loading** manual
- **Plate type** conventional positive UV-sensitive plate with extra inkjet coating, 0.15–0.30 mm
- **Ink type** water based UV-blocking dye and pigment inks
- **Exposure** 395 nm UV LEDs
- **Processing steps**
pre-washing ▶ processing ▶ washing ▶ drying
- **Processing chemicals** conventional plate processor (e.g. Fuji HD-P1)
- **Processing technology** manual plate move, automatic maintenance of chemicals and water

SIZES & WEIGHTS

- **CTP unit** 143×107×122 cm, 160 kg (DTP 36)
117×107×122 cm, 140 kg (DTP 24)
68×60×50, 20 kg (DTP 17)
- **Plate processor**
45×125×97 cm, 130 kg (normal version)
45×138×110 cm, 140 kg (extra large version)

PLATE SIZE

- **DTP 17**
width (head scan): 90 ... 432 mm
height (media feed): 150 ... 800 mm
- **DTP 24**
width (head scan): 400 (opt. 250) ... 610 mm
height (media feed): 365 ... 1030 mm
- **DTP 36**
width (head scan): 400 (opt. 250) ... 914 mm
height (media feed): 365 ... 1030 mm

IMAGING QUALITY

- **Resolution** 2880×2880 dpi (commercial quality) and 1440×1440 dpi (newspaper quality)
- **Line screen** 30–175 lpi; max. 150 lpi for DTP 17 (recommended: 175 lpi; 150 lpi for DTP 17)
- **Minimum dot size** 35 µm
- **Registration accuracy** typically 0.025 mm, max. 0.1 mm (below A2) or 0.15 mm (above A2)
- **Color accuracy** typically ±1.5%, max. ±3%

SPEED (DTP 24/36 only)

- **Newspaper quality**
16 plates of 770×1030 mm per hour on 85 lpi
- **Commercial quality**
15 plates of 400×510 mm per hour on 175 lpi
- **Maximum quality** (extra banding suppression)
8 plates of 400×510 mm per hour on 175 lpi
- **Other sizes** proportional with the plate size

RIP

- **Software** StudioRIP XF Inkjet Edition (proofing option included), controllable from PC and Mac workstations. Trapping, ink duct control, imposition available as optional features.
- **PC** (DTP 24/36 only) 4 GB RAM, Intel N3150 Quad Core CPU, 500 GB HDD, 15.6", Full HD (1920×1080) capacitive touch monitor

CONTACT US



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