

basysPrint

ENG



UV-Setter Series 400
UV-Setter Series 800



FINNCH | graphix

CtP has never been easier

Ready, steady, go!

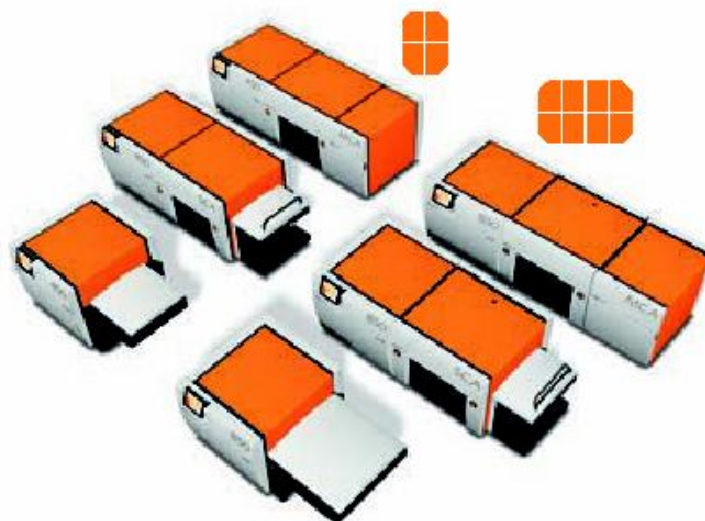
You want to experience uncomplicated and trouble-free CtP? Very good! In this case, the basysPrint UV-Setters are your perfect vehicle for a cost-effective and above all unproblematic entry into the world of CtP. With a UV-Setter from basysPrint, namely, you can continue to work with your tried and tested printing plates. That is more than just innovative, because there is at present simply no better plate on the market. After all, you rightly expect only the best: A stable, economical and perfectly exposed plate. Independent institutes have confirmed this in respect of UV-sensitive plates.

Thanks to the optimum ink-water balance maintained on the plate, users benefit from sharp reproduction of the image data. Unbaked negative UV-sensitive plates already achieve run lengths of 400,000 or more, while baked positive plates are even able to boost this figure as far as 1.5 million impressions, depending on the print substrate used.

Whichever plate you prefer, it can also be exposed on the basysPrint UV-Setters thanks to the UV technology. Combine your own knowledge of plate properties, chemistry and process stability with the technical know-how of basysPrint, the pioneer and market leader in the field of UV-CtP. The ex-

tremely simple operation of the platesetters and their ultimate manufacturing quality are appreciated and renowned the world over.

With the UV-Setter series 400 and 800, you can now become faster than ever before, and that with further savings on top! The two systems are designed for 4- and 8-page applications. Thanks to its modular platform, a UV-Setter is able to grow with your changing needs, and can be reconfigured and adapted to new operational requirements at any time. In short, it is simple to integrate, fast to install, and easy to operate.





Secure investment thanks to modularity



With the UV-Setter 400 and 800 Series your keyword is flexibility. An existing basic installation can be upgraded to become a fully automatic system at any later time, with either a single- or multi-cassette plate magazine.



Manual and semi-automatic

Even in its basic manual version, the UV-Setter stands out by way of its ease of handling and quality. The first option is to configure the UV-Setter as a semi-automatic system with automatic plate transport to the processor.



Fully automatic system with single cassette

The fully automatic SCA version (Single Cassette Automation) can hold up to 100 plates of a particular format in a cassette. Further plate formats can be made available by way of an additional trolley. The SCA version can be expanded quickly and inexpensively at any time later should you wish to upgrade to a multi-cassette.

- Up to 100 plates in a cassette
- Manual operation possible, if necessary
- Fully automatic paper removal
- Optional automatic punching
- Plates can also be loaded up during exposure



Fully automatic system with multi-cassette

The MCA version (Multi-Cassette Automation) accepts up to five different plate formats and automatically supplies the required format for exposure.

- Up to 500 plates in max. 5 cassettes
- Manual operation possible, if necessary
- Fully automatic paper removal
- Optional automatic punching
- Plates can also be loaded up during exposure



More light equals higher speed: DSI³ adapts to your increasing requirements

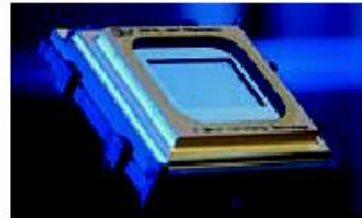
More light equals higher speed: DSI³ adapts to your increasing requirements

Only a basysPrint UV-Setter is able to image a 1-bit-Tiff one-to-one on the printing plate. The heart of all basysPrint plate-setters is the Digital Light Processing (DLP) with its Digital Micromirror Device (DMD) by Texas Instruments[®]. During the exposure 800,000 micromirrors are directing the bundled UV light on the printing plate.

The micromirrors are square and expose extremely sharp pixels (between 11 and 20 µm). This guarantees that the exact image will be replicated from the original file.

The key to an increased light exposure speed of UV-sensitive plates with DSI³ (Digital Screen Imaging) lies in the combination of violet diodes and the proven basysPrint exposure head technology. In contrast to the other CTP systems, UV-Setter uses the luminous power of several diodes which are installed on the outside of the exposure head in light modules. A light compensator collects the energy which is then channeled through optical fibers onto the DMD.

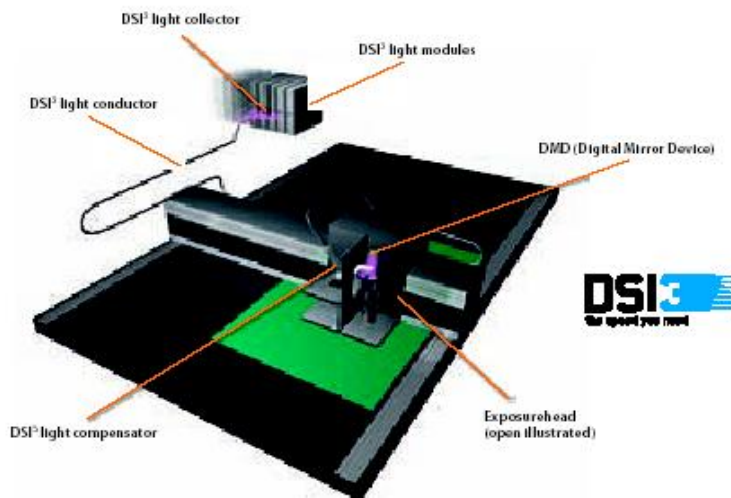
In comparison to its forerunner model this process accelerates the exposure time more than twice. Performance capability can be enhanced on site at any later time. The



formula could hardly be simpler: The more light modules you install, the faster the exposure. You can thus make your UV-Setter as fast as you actually need.

DSI³ diode modules are long-lasting and stable, maintaining a constantly high exposure quality even without calibration.

Should your present concern not be speed but a favourable entry price, our UV-Setters can still be supplied in a DSI² version as in the past.

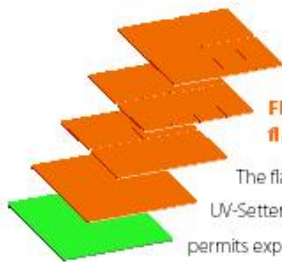




Bring out the best in your UV-sensitive plates

1-bit TIFF for easy integration

Irrespective of whether you are a newcomer to UV-CtP or are switching from other solutions, the UV-Setter shows itself to be highly integrative. It either uses existing resources, or else can be delivered as a fully equipped system. Thanks to its 1-bit TIFF compatibility, it can be placed behind any RIP, while inline punching provides for compatibility to all plate systems.



Flexibility of a flatbed system

The flatbed system of the UV-Setter Series 400 and 800 permits exposure of a wide variety of plate sizes, from small formats up to a maximum 680 x 830 mm (26" x 32") resp. 940 x 1150 mm (27" x 45"). When using smaller formats, e.g. 4 up, it is also possible to image several plates simultaneously.

Precision through punching and exposure on a single table

One major benefit of the basysPrint flatbed system is that the printing plate can be aligned once for both punching and subsequent exposure. There is no need for renewed positioning, as would be the case with a separate punch, for example. Consequently, the plate image is always lined up exactly true to the punch. The punching fixtures are set up individually for the customer and can be changed at any time. Alternatively, it is also possible to work with 3-point alignment.

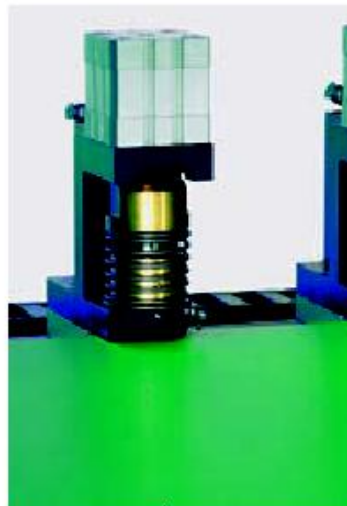


Plate variety for greater independence

The UV-Setters operate in the 360–450 nm wavelength range. As a result, you can choose from practically the entire range of UV-sensitive offset printing plates. Another advantage: Conventional printing plates are widely available from all suppliers. The basysPrint UV-Setters are especially quick in exposing the negative-process plates as only the printing elements of the plate surface need to be exposed. 60 printing plates from 15 different manufacturers have already been tested on the UV-Setters, and this list is growing constantly. We would be pleased to provide information on whether your preferred plate type has been tested successfully or not, and if it has been, what exposure speeds were achieved.



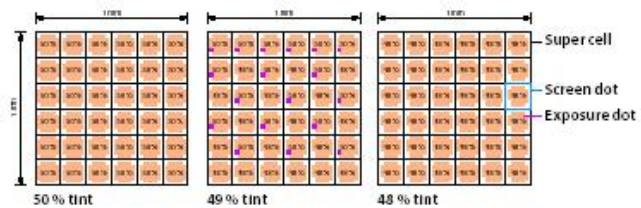


The UV-Setter makes CTP really cost-effective.

CTP eliminates work steps and thus cost factors. No films to produce, no film assembly and no plate copying. With most technologies, however, the financial benefits are immediately lost to the higher costs for materials (plates, chemicals, disposal). With the basysPrint technology, on the other hand, your savings are in the right place: You can continue to use your conventional UV-sensitive plates, which will remain favourably priced for a long time to come and can be purchased worldwide and at any time from a broad diversity of suppliers and independent dealers. Most users will be perfectly familiar with UV printing plates and their proven performance on the press. There is thus no need to invest in a costly test phase and extra staff training. Furthermore, the UV-Setter itself is pleasingly economical in operation, with a low energy consumption and affordable costs for chemistry and disposal.

Brilliant screening thanks to super cells

Super cell screening is a method to increase the number of greyscales in an image. The so-called super cells comprise a certain number of individual screen dots, depending on the resolution of the screening. Within each super cell, the constituent dots are produced with varying numbers of stochastically scattered exposure dots (shown as dark-red pixels in the diagram). In this way, it is possible to achieve greyscales in a super cell which could never have been attained with identical screen dots (up to 4096 greyscales).





The future is UV-CtP

Future-compatible modularity

You can grow and become faster together with your UV-Setter. The platform is designed to be fully modular, enabling you to retrofit automation, punch or cassette modules – at any time and directly on your premises. Or else add more diode modules to further increase your exposure speed.

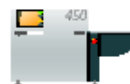
Simple integration and operation

The imaging quality of the UV-Setter is as brilliant as it is simple: The square pixels from the RIP are simply exposed 1:1 onto the printing plate. The flatbed accommodates also full-bleed plates or several plates of different formats simultaneously. The UV-Setter requires practically no maintenance.

Independence and reliable supplies thanks to UV-CtP

With its 1-bit TIFF interface and compatibility to standard processors, the UV-Setter is more cooperative than any possible alternative. Just remember that, over the process as a whole, UV-sensitive printing plates are the most ecological, most stable and, last but not least, the fastest printing plates in the world. And they are available always and everywhere at fair prices.

UV-Setter Series 400



	440 450	440 SCA 450 SCA	440 MCA 450 MCA
Maximum material format in mm [in inch]	680 × 830 [27 × 33]	680 × 830 [27 × 33]	680 × 830 [27 × 33]
Minimum material format in mm [in inch]	200 × 200 [7 × 7]	323 × 450 [12 × 17]	323 × 450 [12 × 17]
Exposes UV-sensitive offset printing plates	■	■	■
Flatbed system with vacuum table	■	■	■
Variable register system configuration, 3 pln stop system	■	■	■
Integrated punch	-	□	□
Exposure System	440: DSP ² 450: DSP ²	440 SCA: DSP ² 450 SCA: DSP ²	440 MCA: DSP ² 450 MCA: DSP ²
Semi-automatic plate handling system	□	■	■
Fully automatic cassette system/number of cassettes/automatic slip sheet removal	-	■/1/■	■/3 or 5/■
Maximum plate capacity of the automation	-	100	300 or 500
Exposure speed in plates/h (for plate size in mm), measured with basysPrint UV-N1	440: up to 15 [605 × 745] 450: up to 32 [605 × 745]	440 SCA: up to 15 [605 × 745] 450 SCA: up to 32 [605 × 745]	440 MCA: up to 15 [605 × 745] 450 MCA: up to 32 [605 × 745]
Approved plates	basysPrint UV-N1 and other UV-sensitive plates	basysPrint UV-N1 and other UV-sensitive plates	basysPrint UV-N1 and other UV-sensitive plates
Wave length	440: 360-450 450: 405	440 SCA: 360-450 450 SCA: 405	440 MCA: 360-450 450 MCA: 405
Resolution in dpi	1270, 1500, 2400	1270, 1500, 2400	1270, 1500, 2400
FM screening possible	■	■	■
Material thickness in mm	0.15–0.4	0.15–0.4	0.15–0.4
Dimensions (W × D × H) in mm [in inch]	2340 × 1605 × 1330 [92 × 63 × 52]	3670 × 1605 × 1330 [145 × 63 × 52]	3770 × 1605 × 1330 [149 × 63 × 52]
Operating temperature in °C [in °F]	18–24 [65–75]	18–24 [65–75]	18–24 [65–75]
Relative humidity in %	20–80, not condensing	20–80, not condensing	20–80, not condensing
Connected load in kW	2.5	2.5	2.5
Electrical connection	230V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz

■ = standard □ = optional - = not available

UV-Setter Series 800



	840 850	840 SCA 850 SCA	840 MCA 850 MCA
Maximum material format in mm [in inch]	940 × 1150 [37 × 45]	940 × 1150 [37 × 45]	940 × 1150 [37 × 45]
Minimum material format in mm [in inch]	200 × 200 [7 × 7]	323 × 450 [12 × 17]	323 × 450 [12 × 17]
Exposes UV-sensitive offset printing plates	■	■	■
Flatbed system with vacuum table	■	■	■
Variable register system configuration, 3 pln stop system	■	■	■
Integrated punch	-	□	□
Exposure System	840: DSP ² 850: DSP ²	840 SCA: DSP ² 850 SCA: DSP ²	840 MCA: DSP ² 850 MCA: DSP ²
Semi-automatic plate handling system	□	■	■
Fully automatic cassette system/number of cassettes/automatic slip sheet removal	-	■/1/■	■/3 or 5/■
Maximum plate capacity of the automation	-	100	300 or 500
Exposure speed in plates/h (for plate size in mm), measured with basysPrint UV-N1	840: up to 9 [790 × 1030] 850: up to 26 [790 × 1030]	840 SCA: up to 9 [790 × 1030] 850 SCA: up to 26 [790 × 1030]	840 MCA: up to 9 [790 × 1030] 850 MCA: up to 26 [790 × 1030]
Approved plates	basysPrint UV-N1 and other UV-sensitive plates	basysPrint UV-N1 and other UV-sensitive plates	basysPrint UV-N1 and other UV-sensitive plates
Wave length	840: 360-450 850: 405	840 SCA: 360-450 850 SCA: 405	840 MCA: 360-450 850 MCA: 405
Resolution in dpi	1270, 1500, 2400	1270, 1500, 2400	1270, 1500, 2400
FM screening possible	■	■	■
Material thickness in mm	0.15–0.4	0.15–0.4	0.15–0.4
Dimensions (W × D × H) in mm [in inch]	2660 × 1665 × 1330 [105 × 66 × 52]	3975 × 1665 × 1330 [156 × 66 × 52]	4090 × 1665 × 1330 [161 × 66 × 52]
Operating temperature in °C [in °F]	18–24 [65–75]	18–24 [65–75]	18–24 [65–75]
Relative humidity in %	20–80, not condensing	20–80, not condensing	20–80, not condensing
Connected load in kW	2.5	2.5	2.5
Electrical connection	230V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz

■ = standard □ = optional - = not available