basysPrint

ENG

UV-Setter Series 460x
UV-Setter Series 860x

How to secure your CtP future? Profitably - Flexibly - Reliably?

In a competitive landscape, like the graphical industry, efficiency is extremely important.
Efficiency expressed in 3 questions:

- How profitable is your production?
- How flexible do you adapt to changes and challenges?
- How reliable are your processes?

How profitable?

Maximizing the use of your equipment will guarantee a quick Return on Investment.
The new basysPrint 460**x** and 860**x** series UV-Setters run 5 Cross Applications to secure your future with 5 revenue streams

- Expose offset plates
- Make coating plates
- Produce magnesium plates
- Image screen meshes
- Prepare die cut plates

Finishing your print products with an extra touch of varnish, hot foil impression or embossing is generally an expensive application. However, these Cross Applications now become much more accessible and affordable by benefitting from the flexibility of the basysPrint UV-Setter. It offers you the possibility to be unique in this commodity market.

UV-plates are the best priced plates, simply because more than 30 manufacturers, both leading and upcoming suppliers around the world, continue to develop and produce them.
UV-plates are the most economical plates to run, mainly because of the very low chemistry consumption and the smallest ecological footprint.
The highly productive basysPrint 460**x** and 860**x** UV-Setters present fast single or dual plate production and the lowest energy consumption.
Have your UV-CtP system grow along your own growth path and speed thanks to supreme modularity.

The new basysPrint UV-Setters do it all!

How flexible?

Choose between plates of more than 30 suppliers depending on your requirements! With multiple plate sizes on line, or easy to swap plate formats, flexibility is guaranteed.
Select out of 5 Cross Applications on the same machine, through the unique flatbed design and unequalled Dynamic Auto-focus. basysPrint's modular concept for 4-up or 8-up applications allows you to flexibly grow from manual to semi-automatic or full automatic production whenever your needs change. Reconfigure and adapt them to any new operational requirement at any time.

Professional remote control and remote service allow flexible supervision based on use of latest user interface technology (©iPad, ©iPhone, PAD).

How reliable?

Choosing for UV-plates guarantees most reliable plate supply.
UV-exposure is the proven and most stable plate processing, bringing highest chemistry latitude, long and stable run lengths, even unbaked and with UV-inks. basysPrint ensures product quality and a sturdy, durable construction by a completely controlled internal production from A to Z.

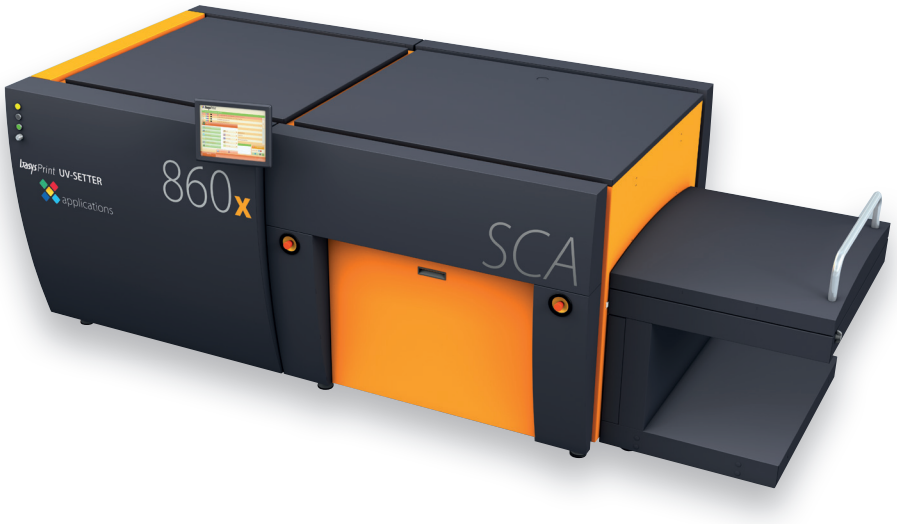
Cutting edge DMD exposure technology and long lasting DSI[3] diode modules deliver constant and stable exposure.

You and basysPrint: combined know-how.

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 extremely simple operation of the plate setters and their ultimate manufacturing quality are appreciated and renowned the world over.

applications

- **Offset plates**
- **Coating plates** for varnish printing
- **Photoengraving Magnesium** or **Copper plates** for hot foil stamping or embossing.
- **Screens** for silk screen printing.
- **Dies** for flexible die-cutting.



Secure investment thanks to modularity

With the UV-Setter 460**x** and 860**x** 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 trolley. 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 trolley
- Manual operation possible, if necessary
- Fully automatic paper removal
- Optional automatic punching

Fully automatic system with multi-cassette

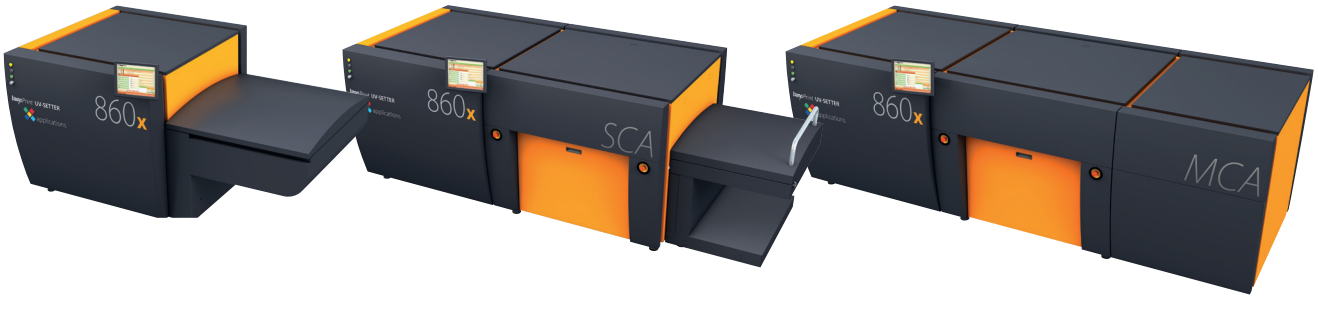
The MCA version (Multi Cassette Automation) accepts up to five different plate formats and automatically supplies the required format for exposure.

- Up to 500 plates in max. 5 cassettes
- Manual operation possible, if necessary
- Fully automatic paper removal
- Optional automatic punching

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.

The new speed
DSI3



Technology innovation

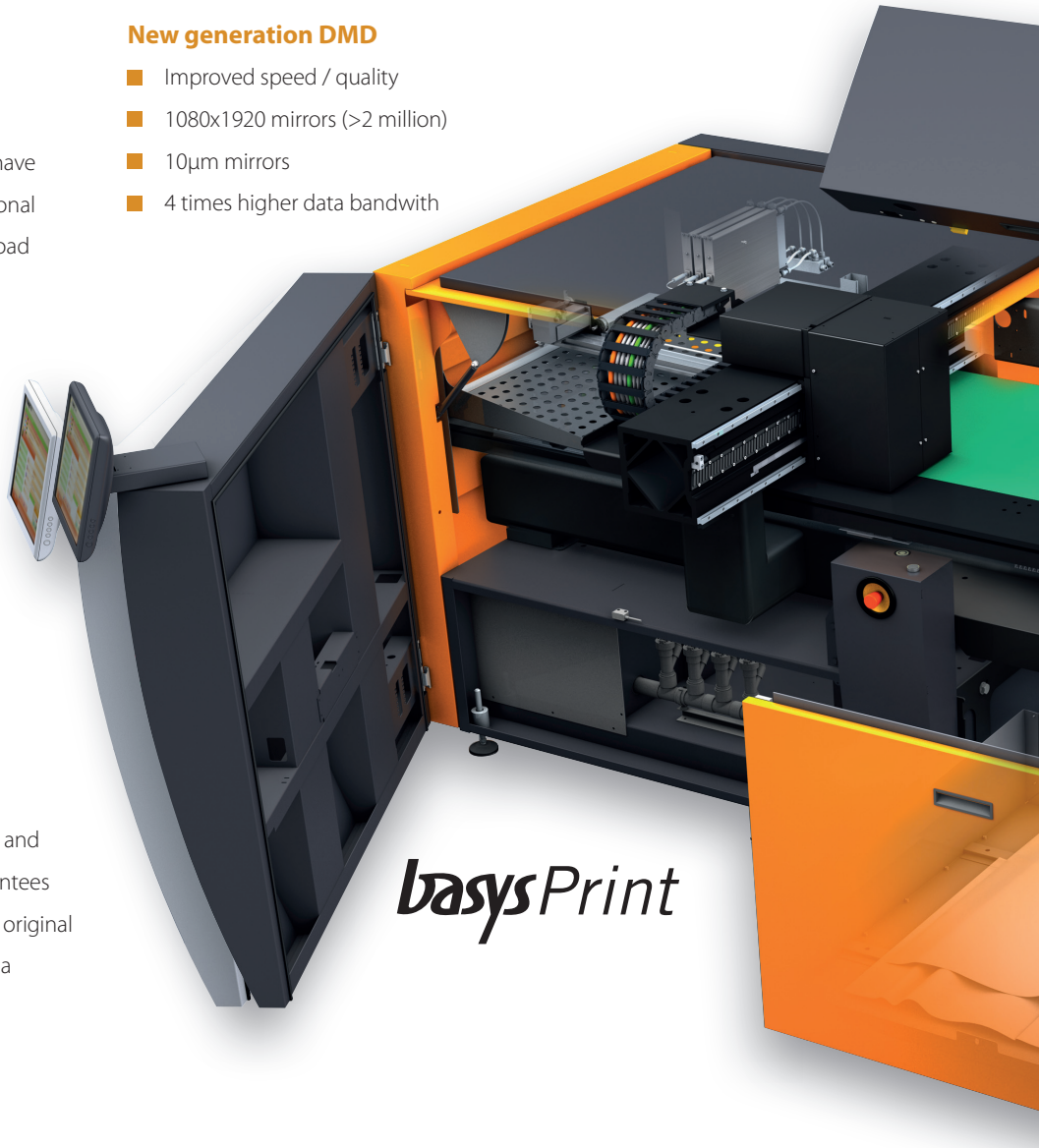
The basysPrint UV-Setter's flexibility is beyond compare. The elasticity of automation and productivity are very much appreciated by customers around the world. Customer driven technological innovation in every performance aspect is the foundation of this success.

Dual plate productivity

With the 460**x** and 860**x** you do not only have the possibility to use any type of conventional plate but we also offer you the option to load and image two plates at the same time, resulting in improved productivity.

New generation DMD

- Improved speed / quality
- 1080x1920 mirrors (>2 million)
- 10µm mirrors
- 4 times higher data bandwith



Unique exposure quality with Digital Micro mirror Device technology

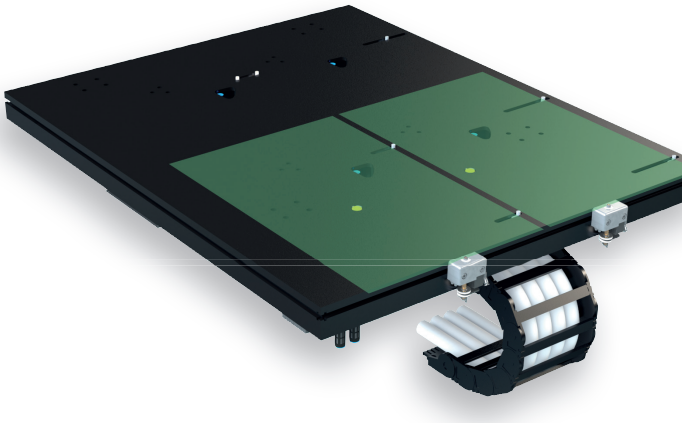
The heart of all basysPrint platesetters is the Digital Light Processing (DLP) with its Digital Micro mirror Device (DMD) by Texas Instruments™. During the exposure 2 mio micro mirrors are directing the bundled violet light on the printing plate. The micro mirrors are square and expose extremely sharp pixels (between 10 and 17 µm depending on the resolution). This guarantees that the exact image will be replicated from the original file. Only a basysPrint UV-Setter is able to image a 1-bit-Tiff one-to-one on the printing plate.

The new speed

DSI3

Add modules for increased productivity

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, the basysPrint UV-Setter uses the luminous power of several diodes which are installed on the outside of the exposure head in light modules. The light of the laser modules is channeled through optical fibers into an illumination optic.
The homogenized light is then directed through several optical components towards the DMD. Need more light? Just add more modules!



and efficiency result in cost saving

applications

5 Cross Applications in one engine

The unique flatbed design and Dynamic Autofocus offer the exposure of 5 different application types.

- UV-plates for offset printing
- Coating plates for varnish printing
- Photoengraving Magnesium or Copper plates for hot foil stamping or embossing.
- Screens for silk screen printing.
- Dies for flexible die-cutting.

Reliable, effortless paper removal

Years of experience, under different environmental conditions, resulted in an effective and problem free paper removal system.

Wealth of application specific UV-plate types available

Over 30 suppliers from around the world, both leading and emerging manufacturers, offer an up-to-date and quality range of negative and positive UV-plates.

Highest quality flatbed table and precision punching

Register quality and precision are guaranteed by aligning the UV-offset plates just once for both punching and exposure using the basysPrint VersaFlex system.

Professional control with cutting edge user interface

Highly intuitive graphic user interface for secure, simple and easy remote control

Functionality at a glance

1-bit TIFF for easy integration.

Irrespective of whether you are a newcomer to UV-CtP or switching from other solutions, the UV-Setter shows itself to be highly integrative. It can be delivered as a fully equipped standalone system or as the perfect exposure component inside your existing production. Thanks to its 1-bit TIFF compatibility, it can be placed behind any RIP or pre-press production workflow.

Flexibility of a flatbed system

The flatbed system of the UV-Setter 460**x** and 860**x** permits exposure of a wide variety of plate sizes, from formats as small as 200 x 200 mm up to a maximum of 680 x 830 mm (26" x 32") resp. 940 x 1150 mm (27" x 45"). When using the **dual plate loading** option on the 8-up platform, 2 plates with a maximum of 450 x 1150 mm can be loaded and imaged simultaneously. Thanks to our state of the art **VersaFlex** system we guarantee a fast, accurate and consistent registration. Years of experience, under different environmental conditions, resulted in an effective and problem free paper removal system.

Dynamic Autofocus

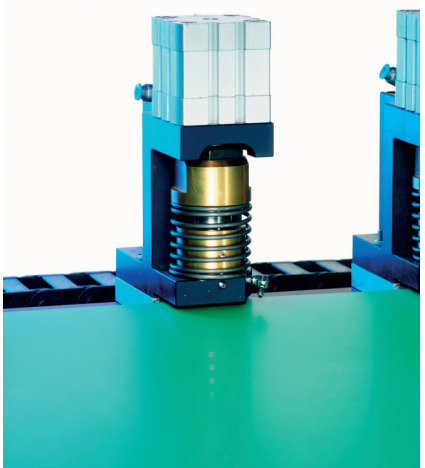
Different plate thicknesses or undulating plate surfaces? The UV-Setter Dynamic Autofocus guarantees a perfect focus depth over the total surface of the plate. The surface of the plate is scanned in real-time and optical compensation is applied on the fly when needed. The basysPrint UV-Setter's unique autofocus system copes seamlessly with variations as small as 1 µm and this for substrate thicknesses up to 10 mm.

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. Consequently, the plate image is always lined up exactly true to the punch. Our high efficiency in-line punching eliminates the need to adjust registration on the press. 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 405 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. (Check out www.basysPrint.com for a list of tested plates and exposure speeds).



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, your savings are in the right place: You can continue to use your conventional UV-sensitive plates, which will remain favorably priced for a long time to come and can be purchased worldwide 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 extremely economical in operation, with low energy consumption and affordable costs for chemistry and disposal.

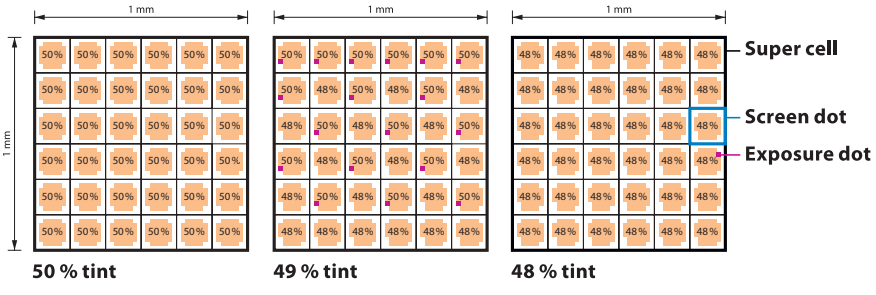
Brilliant screening thanks to Super cell technology

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 adjoining screen dots are produced with varying size compared to their neighbors. 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 grey levels).

Remote monitoring of production status

The UV-Setter 460**x** and 860**x** series feature a remote monitoring system that makes it possible to check the CtP system and production status using any kind of computer or PDA that has access to the network. If remote access is granted, our service engineers can access the UV-Setter for maintenance, repairs, and periodic inspections, ensuring that the CtP recorder is in optimal operating condition at all times.



The Future is UV-CtP

Thanks to the optimum ink-water balance maintained on the plate, users benefit from sharp reproduction of the image data, and a quick start-up on the press resulting in a minimum paper waste. 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.

Decisive advantages of UV-plates

- Stable and easy-to-maintain overall process offering consistent quality.
- Very wide processing tolerances with constant reliable output.
- Leading chemistry compatibility with multiple plate brands
- Extremely long lifetime of the chemistry in the processor (3 x longer than digital plates)
- High run length stability, even without baking
- Compatibility with UV-inks.
- Ecology friendly processing chemistry (low alkali, soap like solution that can be poured down the drain; no contamination with heavy metals, silicones or other hazardous components).
- Very low chemistry consumption (20-50 ml per m2).
- Very low energy consumption of the UV-Setter (2KWH versus 8,3 KWH for a Thermal system).
- Wide choice of plate types and plate suppliers (over 30 suppliers).
- Price advantage over other CtP plates.

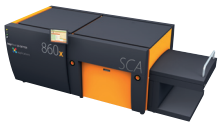
460x



UV-Setter 460x series	460x	460x SCA	460x MCA
Maximum material format in mm (inch)	680 x 830 (27 x 33)	680 x 830 (27 x 33)	680 x 830 (27 x 33)
Minimum material format in mm (inch)	200 x 200 (7 x 7)	200 x 200 (7 x 7) - manual 323 x 450 (12 x 17) - automatic	200 x 200 (7 x 7) - manual 323 x 450 (12 x 17) - automatic
Flatbed system with vacuum table	■	■	■
Variable registration system, 3-pin stops	□	■	■
Integrated punch	-	□	□
Exposure system	DSI³	DSI³	DSI³
Semi-automatic plate handling	□	■	■
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/hr (plate size in mm)	Up to 70 (605 x 745)	Up to 70 (605 x 745)	Up to 70 (605 x 745)
Approved plates	See website	See website	See website
Wave length	405 nm	405 nm	405 nm
Resolution in dpi	1500, 2400	1500, 2400	1500, 2400
FM Screening possible	■	■	■
Material thickness in mm (inch)	Offset plates: 0,15 – 0,40 - Other substrates: up to 10 mm		
Dimensions (W x D x H) in mm (inch)	2660 x 1665 x 1330 (105 x 66 x 52)	3975 x 1665 x 1330 (156 x 66 x 52)	4090 x 1665 x 1330 (161 x 66 x 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	2,3	2,3	2,3
Electrical connection	230 V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz

□ = optional ■ = standard - = not available

860x


UV-Setter 860x series	860x	860x SCA	860x MCA
Maximum material format in mm (inch)	940 x 1150 (37 x 45)	940 x 1150 (37 x 45)	940 x 1150 (37 x 45)
Minimum material format in mm (inch)	200 x 200 (7 x 7)	200 x 200 (7 x 7) - manual 323 x 450 (12 x 17) - automatic	200 x 200 (7 x 7) - manual 323 x 450 (12 x 17) - automatic
Dual Plate loading	□	□	□
Dual plate loading maximum plate format**	2 x 450 x 1150 mm	2 x 450 x 1150 mm	2 x 450 x 1150 mm
Dual plate loading minimum plate format**	2 x 250 x 450 mm	2 x 250 x 450 mm	2 x 250 x 450 mm
Flatbed system with vacuum table	■	■	■
Variable registration system, 3-pin stops	□	■	■
Integrated punch	-	□	□
Exposure system	DSI³	DSI³	DSI³
Semi-automatic plate handling	□	■	■
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/hr (plate size in mm)	Up to 45 (790 x 1030)	Up to 45 (790 x 1030)	Up to 45 (790 x 1030)
Exposure speed Dual plate loading (plate size in mm)**	-	Up to 130 (2 x 450 x 650)	Up to 130 (2 x 450 x 650)
Approved plates	See website	See website	See website
Wave length	405 nm	405 nm	405 nm
Resolution in dpi	1500, 2400	1500, 2400	1500, 2400
FM Screening possible	■	■	■
Material thickness in mm (inch)	Offset plates: 0,15 – 0,40 - Other substrates: up to 10 mm		
Dimensions (W x D x H) in mm (inch)	2660 x 1665 x 1330 (105 x 66 x 52)	3975 x 1665 x 1330 (156 x 66 x 52)	4090 x 1665 x 1330 (161 x 66 x 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	2,3	2,3	2,3
Electrical connection	230 V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz

□ = optional ■ = standard - = not available **dual plate loading only on 860 platform SCA/MCA

About basysPrint

The basysPrint UV-Setter series were the first systems for the digital exposure of conventional UV printing plates. basysPrint UV-Setters are successfully in operation worldwide for more than 15 years. These systems are characterized by a high level of economic efficiency for print companies of all sizes. basysPrint customers highly appreciate their quality and flexible handling of many plate sizes as well as the capability to combine different cross applications on one platesetter. Through the use of UV-plates, users are able to benefit from a stable, flexible and environment-friendly production process delivering ultimate imaging quality. basysPrint is a brand of Xeikon International BV. Detailed information is to be found at: www.basysprint.com

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