XPose! UV

UV offset plates

405 nm UV laser diodes

The CTP system for UV sensitive, conventional offset plates

The XPose! UV was developed for use in commercial and packaging printing. It is also ideally suited to service providers and printing in large formats.

The CTP system is based on proven UV laser technology. This technology is developed from thermal technology which was previously used widely. It is impossible to think of a world without UV technology, with its advantages such as durability, low heat emission, lack of requirement for expensive water cooling systems and improved UV offset plates. Since the beginning of 2007, we have been selling our CTP system, XPose! UV. Customers were immediately impressed by the quality of conventional offset plates and the reliability of the CTP system. With every XPose! UV system sold comes an open invitation to convert the lasers from UV to thermal, free-of-charge, if a customer is not satisfied. No one has yet taken us up on this offer!

UV offset plates are significantly cheaper than thermal offset plates and require fewer chemicals. The XPose! UV offers a quick return on investment and is cost-effective for plate production starting between 10,000 and 15,000 m^2 per year.

The XPose! UV model range images all required formats up to 1,650 x 2,900 mm (65 x 114 inches), the XXL plate format.

The following models are available:
- XPose! 230 UV
- XPose! 260 UV
- XPose! 260-L UV
- XPose! 260-XXL UV
- XPose! 290 UV (on request)

The number of lasers can be varied from 32 to 96 for an optimal price/performance ratio. For plates with high energy requirements, HiPower lasers can be chosen in order to enable high imaging speeds. With resolutions up to 12,000 dpi, the XPose! UV can handle all customer-specific demands.

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Lüscher UV technology is based on the high performance blue laser diodes. UV laser diodes only require minimum power consumption which guarantees a long service life for the lasers. Using less energy as compared to thermal lasers, the UV lasers are efficient and do not require any special water cooling systems.

UV offset plates

Lüscher UV technology makes it possible to use proven "conventional" UV plates. Both FOGRA and System Brunner have verified their outstanding quality. Cost-effective UV offset plates are available. The very large supply of plates, due in no small measure to emerging Asian markets, ensures free choice of plates and independence from plate suppliers.

Plate technology

Even without baking, conventional offset plates offer increased print runs and minimal waste thanks to the quick water/colour balance. In addition, the plates are very robust when printing UV colours.

UV offset plates are characterised by an exceptionally long shelf life and are much less sensitive to scratches and chemicals in the print shop. In addition, they offer a high processing margin of error and are therefore less sensitive to fluctuations in the whole processing sequence.

The plates use very few chemicals, and negative UV plates use significantly less than positive thermal plates. In addition, there is no ablation in the CTP system, which means that costly vacuuming is no longer necessary.

The entire development process is environmentally friendly and it is exceptionally easy to dispose of plate chemicals. Other benefits such as very low power consumption and minimal maintenance are also offered by XPose! UV.

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Highlights of UV technology

We offer our customers the possibility of imaging and manufacturing coating plates in-house. The procedure is a world first. It makes it possible to combine UV technology with our XPose! UV and its proven internal drum system, where the print form in use remains static during imaging. The new Accent coating plates developed with MacDermid increase production flexibility and reduce total operating expenses. More information can be found in the Accent brochure.

Technical specifications	XPose! 230 UV	XPose! 260 UV	XPose! 260-L UV	XPose! 260-XXL UV
Maximum plate size in mm (inches)	1130 x 950 (44.5 x 37.4)	1650 x 1370 (65 x 54)	1650 x 2260 (65 x 89)	1650 x 2900 (65 x 114)
Plate thickness in mm (inches)	0.2 – 0.4 (0.008 – 0.015)	0.25 – 0.5 (0.01 – 0.02)		
Standard resolution in dpi	2400, 2540			
Higher resolution in dpi	3200, 4000, 4800, 5080, 6000, 8000, 9600, 12000	3200, 4000, 4800, 5080	–	–
Laser type	UV, 405 nm			
Number of laser diodes	32, 48, 64, 80 or 96			
Productivity in plates/h [1)]	30	19	10	8
Dimensions (L x W x H) in mm (inches)	2908 x 1367 x 1627 (114.5 x 53.8 x 64)	3575 x 1565 x 1735 (140.7 x 61.6 x 68.3)	4647 x 1565 x 1900 (183 x 61.6 x 74.8)	5342 x 1565 x 1900 (210.3 x 61.6 x 74.8)
Average power consumption	1.5 kW	2 kW		
Power supply	3 x 400 V, 50 – 60 Hz + N + PE 32A			
Air supply	6 – 10 bar, 300 l/min (66 gal./min)			
Environment conditions	50 – 65 % humidity at 18 – 25 °C (64.4 – 77 °F)			

Note: [1)] Depends on material, resolution and number of laser diodes

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