XPose! Secure^{Line}

Built for Highest Resolution in Security Printing

lüscher
Technologies

Advantages of the Patented Lüscher Laser Diode Technology

— **PROVEN AND TRUSTED TECHNOLOGY MADE IN SWITZERLAND**

— **MAINTENANCE-FREE FIBRE OPTIC COUPLED LASER DIODE TECHNOLOGY**

— **FULLY AUTOMATIC CALIBRATION OF LASER DIODES**

— **ULTRA-LONG LIFESPAN OF THE LASER DIODES WITH +15'000 IMAGING HOURS**

— **UPGRADEABLE — ADDITIONAL LASER DIODES CAN BE ADDED AT ANYTIME FOR FASTER IMAGING SPEED**

— **HIGH-ENERGY LASER DIODES FOR HIGHEST ENERGY OUTPUT, NO ACTIVE COOLING SYSTEM REQUIRED**

— **NO CONSUMABLES**

— **OPERATES VIRTUALLY MAINTENANCE-FREE**

— **LOW ENERGY CONSUMPTION, LOWEST COST OF OWNERSHIP**

Advantages of the XPose! Secure^{Line}

— **OPTIONAL FLEXTREME! OPTIC FOR MULTIPLE RESOLUTION UP TO 9'600 DPI**

— **EASY LOADING AND UNLOADING**

— **STANDARD RESOLUTION OF 5'080 DPI (SECURE)**

— **STANDARD RESOLUTION OF 8'000 DPI (SECURE^{PLUS}) WITH OPTION 9'600 DPI**

— **HYBRID MODELS AVAILABLE**

— **CUSTOM-BUILT REGISTERING SYSTEM**

— **SMALLEST ADDRESSABLE PIXEL SIZE OF 2.64 MICRON AT 9'600 DPI**

Technical Specifications
of the XPose! Secure^{Line}

Machine Type	Model	Resolution	fleXtreme!	Number of Lasers	Laser Diode Type
XPose! Secure^{Line} 330 UV	Secure	5'080 dpi	Multiple resolution up to 5'080 dpi	16 / 32 / 48 / 64 /128	UV, 405 nm
	Secure^{Plus}	8'000 / 9'600 dpi	Multiple resolution up to 8'000 / 9'600 dpi	16 / 32 / 48 / 96	UV, 405 nm
XPose! Secure^{Line} 330 TH	Secure	5'080 dpi	Multiple resolution up to 5'080 dpi	16 / 32 / 48 / 64 / 128	TH, 830 nm
	Secure^{Plus}	8'000 / 9'600 dpi	Multiple resolution up to 8'000 / 9'600 dpi	16 / 32 / 48 / 96	TH, 830 nm
XPose! Secure^{Line} 330 UV-Flex	Secure	5'080 dpi	Multiple resolution up tp 5'080 dpi	Combination upon request	UV, 405 nm / TH, 830 nm
	Secure^{Plus}	8'000 / 9'600 dpi	Multiple resolution up to 8'000 / 9'600 dpi	Combination upon request	UV, 405 nm / TH, 830 nm

General Information
of the XPose! Secure^{Line}

Feature	Specification
Maximum plate size	Offset 1'130 x 950 mm (44.5 x 37.4 inch) Letterpress 1'130 x 950 mm (44.5 x 37.4 inch) Flexo 1'150 x 950 mm (45.3 x 37.4 inch)
Maximum plate thickness	Offset 0.2 – 0.4 mm (0.01 – 0.02 inch) Letterpress 0.42 – 2.3 mm (0.02 – 0.09 inch) Flexo 0.76 – 6.35 mm (0.03 – 0.25 inch)
Dimension	2'940 x 1'367 x 1'645 mm (115.7 x 53.8 x 64.8 inch)
Weight	1'900 kgs (4'189 lbs)
Power supply	3 x 400 V + N + PE / 50 – 60 Hz / 32 A
Air supply	6 – 10 bar, 300 l/min
Power consumption	2 kW
Ambient conditions	50 – 65% humidity at 18 – 25°C (64.4 – 77 ° F)
Room conditions	vibration-free floor

For High Security Printing Applications

Lüscher Laser Diode Technology

The fibre-coupled laser diodes operate in the 405 – 830 nm range and are characterised by an ultra-long service life of +15'000 exposing hours. They are completely maintenance-free, no need for active cooling system.
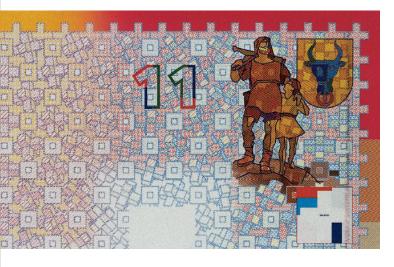
Fully Automatic and Continuous Calibration

XPose! Secure and XPose! Secure[Plus] both include the unique Continuous Calibration Technology (CCT). During the exposure, the performance of every laser is monitored and automatically adjusted if necessary. Costly incorrect exposures can be eliminated thereby.

Lowest Energy Consumption

Lüscher's patented laser diode technology ensures minimal power usage of 2 kW, reducing costs and providing lower cost of ownership. This promotes environmentally-friendly production for customers.

fleXtreme! Optic for Multiple Resolution

The optional fleXtreme! optic is an in-house development by Lüscher and allows the selection of any desired resolution. The changeover is fully automatic and tailored to requirements. This means that every job could be exposed in any resolution.

Leading System in Security Printing

With optical resolutions of 5'080 dpi for the Secure model and 8'000 dpi for the Secure[Plus] model (9'600 dpi as an option), XPose! Secure[Line] meets the highest requirements in security printing. Whether microtexts, complex guilloche patterns or any other security features have to be imaged: XPose! Secure[Line] complies with the most stringent security requirements.

Benchmark in Banknote Printing

Imaging systems for banknote printing with a resolution of 10'160 dpi are exclusively distributed by Koenig & Bauer Banknote Solutions SA, who has been serving the banknote printing market under its own name and its own machine design as exclusive CToP partner for Lüscher CtP systems. This cooperative mutual partnership was first established in 1995.

Also Available as Hybrid System

Any model of the XPose! Secure[Line] can also be configured as a hybrid system upon special request. XPose! TH, for instance, is the hybrid version to process thermal offset plates, conventional UV plates and letterpress plates as well as rotary screens. And XPose! UV-Flex is the hybrid version to process conventional UV and letterpress plates as well as rotary screens, such as Screeny® by Gallus, TecScreen® by Kocher + Beck or RotaPlate® by spg.

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