

XPose! Secure^{Line}

Built for Highest Resolution
in Security Printing



BASED ON INNOVATION.

luscher
Technologies

Advantages of the Patented Lüscher Laser Diode Technology

- PROVEN AND TRUSTED TECHNOLOGY MADE IN SWITZERLAND
- MAINTENANCE-FREE FIBER-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 ANY TIME FOR FASTER IMAGING SPEED
- HIGH-ENERGY LASER DIODES FOR MAXIMUM 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}

MachineType	Model	Resolution	fleXtreme!	Number of Laser Diodes	LaserType
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 to 5'080	Combination opon 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
Max. Plate Size (L x W)	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 1'200 x 950 mm (47.2 x 37.4 inch)
Max. 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 6.35 mm (0.25 inch)
Machine Dimensions (L x W x H)	2'940 x 1'367 x 1'645 mm (115.7 x 53.8 x 64.8 inch)
Weight	1'900 kg (4'189 lb)
Power Supply	3 x 400V + N + PE / 50 - 60 Hz / 32 A
Air Supply	6 - 10 bar, 300 l/min
Power Consumption	approx. 2 kW
Ambient Conditions	40 - 65 % humidity at 18 - 25 °C (64.4 - 77 °F)
Room Conditions	vibration-free floor

For High Security Printing Applications

Lüscher's Laser Diode Technology

The fiber-coupled laser diodes operate in the 405- 830 nm range and are characterized by an ultra-long service life of +15'000 imaging hours. They are completely maintenance-free, no need for an active cooling system.

Fully Automatic and Continuous Calibration

XPose! Secure^{Line} and XPose! Secure^{Plus} both include the unique Continuous Calibration Technology (CCT).

During imaging, the performance of each laser is monitored and automatically adjusted if necessary.

Costly incorrect imaging can thus be avoided.

Lowest Energy Consumption

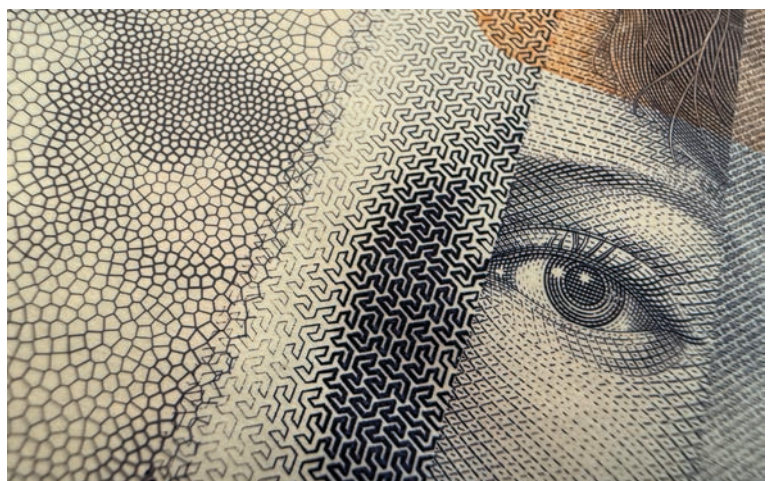
Lüscher's patented laser diode technology ensures minimal power usage of approx. 2 kW, depending on laser type, reducing costs and providing a lower total cost of ownership. This promotes environmentally friendly production for customers.

Virtually Maintenance-free

XPose! Secure^{Line} system operates efficiently without the need for any wear parts or consumables, ensuring minimal maintenance and long-lasting performance. Lüscher's maintenance software guides the operator through the simple maintenance tasks and guarantees high reliability. XPose! Secure^{Line} is equipped with a port for Remote Support Service, which can be directly linked to our technical support via the internet.

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 each job can be imaged in any desired 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.

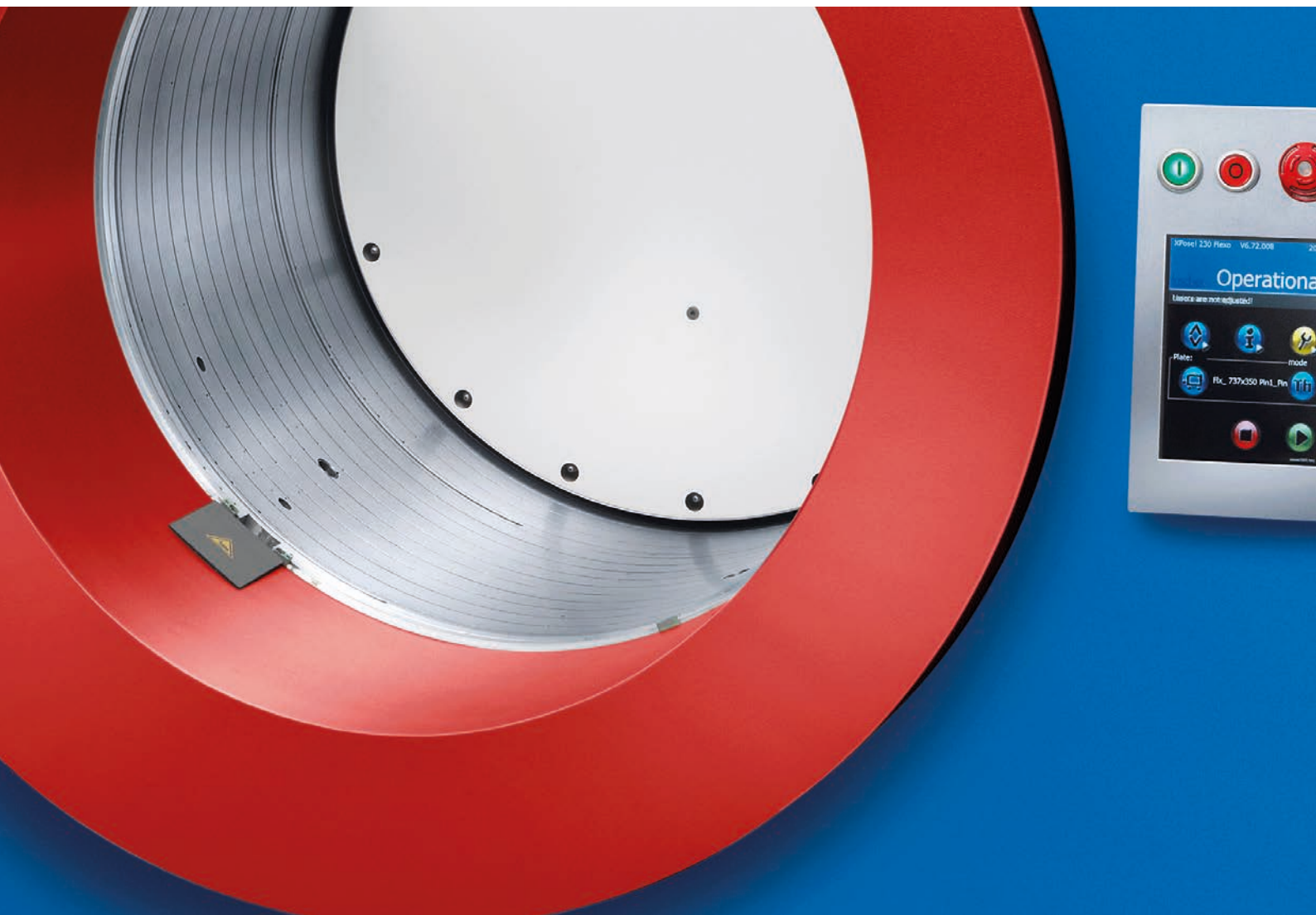
Benchmark in Banknote Printing

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

The XPose! Secure^{Line} can also be configured as a hybrid system upon special request. XPose! Secure^{Line} UV-Flex is the hybrid version to image thermal offset plates, conventional UV offset plates, letterpress plates as well as rotary screens, such as Screeny[®] by Gallus, TecScreen[®] by Kocher+Beck or RotaPlate[®] by SPGPrints.





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