XPose! Flex ^{Line}

The Revolution in Digital Flexo Plate Making

XPose! Flex Line

lüscher Technologies

BASED ON INNOVATION.
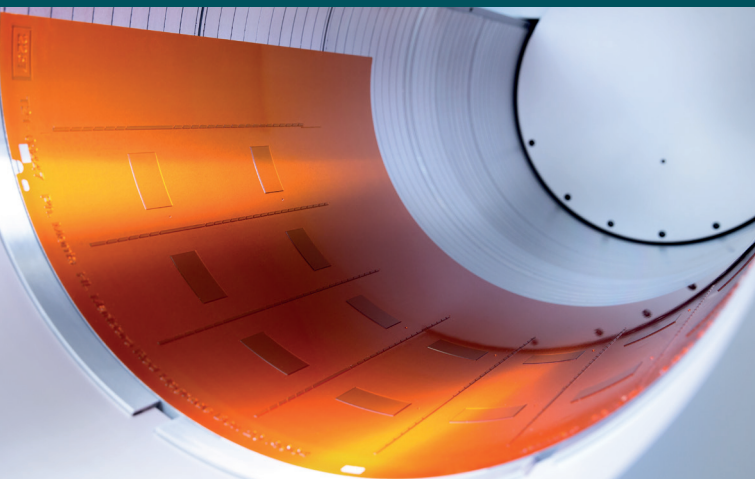
Advantages of the Patented Lüscher Laser Diode Technology

– 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! Flex^{Line}

– OUTSTANDING QUALITY UP TO 20'320 DPI WITH XPOSE! FLEX^{LINE} HIRES^{PLUS}
– UP TO 5 DESIRED RESOLUTIONS INCIUDED WITH THE FLEXTREME! OPTIC
– NO LOSS OF SPEED WITH ANY PLATE THICKNESS UP TO 6.35 MM
– EASY LOADING AND UNLOADING
– NOT DEPENDING ON PARTICULAR FORMATS
– ALSO SUITABLE FOR LETTERPRESS / DRY OFFSET PLATES
– X!MASK SOFTWARE FOR SURFACE SCREENING

Technical Specifications
of the XPose! Flex^{Line}

MachineType	Max. Plate Size (L x W)	Max. PlateThickness	Machine Dimensions (L x W x H)	Weight
XPose! Flex^{Line} 330	1'200 x 950 mm (47.2 x 37.4 inch)	6.35 mm (0.25 inch)	2'940 x 1'367 x 1'645 mm (115.7 x 53.8 x 64.8 inch)	1'900 kg (4'189 lb)
XPose! Flex^{Line} 330L	1'067 x 1'524 mm (42.0 x 60.0 inch)	6.35 mm (0.25 inch)	3'406 x 1'367 x 1'640 mm (134.1 x 53.8 x 64.6 inch)	2'400 kg (5'291 lb)
XPose! Flex^{Line} 360L	1'270 x 2'032 mm (50.0 x 80.0 inch)	6.35 mm (0.25 inch)	4'672 x 1'565 x 1'899 mm (183.9 x 61.6 x 74.8 inch)	3'800 kg (8'378 lb)

General Information
of the XPose! Flex^{Line}

Feature	Flex^{Line}	Flex^{Line} HiRes^{Plus}
Resolution	2'000 / 2'540 / 4'000 / 5'080 / 8'000 dpi	9'600 up to 20'320 dpi
LaserType	TH, 980 nm	TH, 975 nm
Number of Laser Diodes	16 / 32 / 48 / 64	16 / 32 / 48 / 64/ 96 / 128
Power Supply	3 x 400 V + N + PE / 50 - 60 Hz / 32 A	3 x 400 V + N + PE / 50 - 60 Hz / 32 A
Air Supply	6 - 10 bar, 300 l/min	6 - 10 bar, 300 l/min
Power Consumption	approx. 2 kW / 2.5 kW	approx. 2 kW / 2.5 kW
Ambient Conditions	40 - 65 % humidity at 18 - 25 °C (64.4 - 77 °F)	40 - 65 % humidity at 18 - 25 °C (64.4 - 77 °F)
Room Conditions	vibration-free floor	vibration-free floor

New Standard in Flexo Plate Making

Lüscher's Laser Diode Technology

The fiber-coupled laser diodes operate in the 980 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! Flex^{Line} includes 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 / 2.5 kW, reducing costs and providing a lower total cost of ownership. This promotes environmentally friendly production for customers.

Virtually Maintenance-free

XPose! Flex^{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! Flex^{Line} is equipped with a port for Remote Support Service, which can be directly linked to our technical support via the internet.

Easiest Plate Handling

The unique patented combination of inside and outside drum technology allows for easy and quick operation. There is no need for tension rails or time-consuming taping of the plates onto the drum, since the plates, regardless of size or thickness, are static. Even printing plates of 50 x 80 inch can easily be loaded or unloaded by the operator.

XPose! Flex^{Line}

XPose! Flex^{Line} guarantees the highest performance up to 13 m²/h and maximum flexibility.

Full HD Flexo including 5 different resolutions

The fleXtreme! optic is an in-house development by Lüscher. With a simple click of the button, you can switch between 5 different resolutions (2'000 / 2'540 / 4'000 / 5'080 / 8'000 dpi) based on your needs for quality and performance.

Optional X!Mask Software for Surface Patering

The X!Mask software, developed by Lüscher, automatically recognizes surfaces, small dots, or lines.
It fully automates the generation of structures or microcells on the surfaces, allowing for higher density values in solid areas. The operator can freely configure both the shape and size of the microcells. Highlight dots, as well as fine lines, can be identified by the software and are automatically assigned broad shoulders. The software is independent of the RIP and runs fully automatically on the output computer.

XPose! Flex^{Line} HiRes^{Plus}

With the XPose! Flex^{Line} HiRes^{Plus}, you can achieve the best quality with the highest possible resolution of 20'320 dpi available on the market today. The fleXtreme! optic is an in-house development by Lüscher. With a simple click of the button, you can switch between different resolutions (9'600 / 20'320 dpi) based on your needs for quality and performance.

Including X!Mask Software for Surface Patterning

The X!Mask software, developed by Lüscher, automatically recognizes surfaces, small dots, or lines.
It fully automates the generation of structures or microcells on the surfaces, enabling higher density values in solid areas. The operator can freely configure both the shape and size of the microcells. Highlight dots, as well as fine lines, can be identified by the software and are automatically assigned broad shoulders. The software is independent of the RIP and operates fully automatically on the output computer.

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