

# MultiDX!

The All-Rounder



BASED ON INNOVATION.

**luscher**  
Technologies

# One for All

## THE UNIVERSAL FLATBED IMAGESETTER

WITH THE WORLD'S UNIQUE FLAT BED IMAGESETTER MULTIDX!, LÜSCHER TECHNOLOGIES AG HAS DEVELOPED AN INNOVATIVE LASER IMAGING SYSTEM, WHICH MEETS THE INCREASING NEEDS FOR UNIVERSAL AND FLEXIBLE EXPOSING SYSTEMS. DUE TO ITS FLATBED LAYOUT, ALMOST ANY FLEXIBLE AND INFLEXIBLE PRINTING FORM CAN BE EXPOSED IN HIGHEST QUALITY AND EFFICIENCY. MULTIDX! CAN BE EQUIPPED WITH LASER DIODES IN VARIOUS WAVELENGTHS AND NUMBERS ACCORDING TO THE CUSTOMERS' NEEDS.

### Hybrid Technology

In a number of fields, such as the label printing industry, the desire to apply various printing methods is increasing. By introducing a hybrid image setter, Lüscher has again set the benchmark in the CTP industry. Besides offset plates, flexo and letterpress plates and printing screens can be processed in the same printing press (by Gallus, Mark Andy, Nilpeter and others). Traditionally, at least two different CtP systems would have been required to image such a variety of printing forms. MultiDX! with its hybrid technology combines two different laser technologies with variable wavelengths (in this case 405 nm UV and 940 nm IR), allowing any printing form to be imaged in one machine. Switching between the wavelengths is made by a simple click of a button, no other operating steps are necessary. Nothing could be easier.



# Unlimited

ROTARY PRINTING SCREENS

FLAT PRINTING SCREENS

LETTERPRESS PLATES

WATERLESS OFFSET PRINTING PLATES FLEXO

PRINTING PLATES

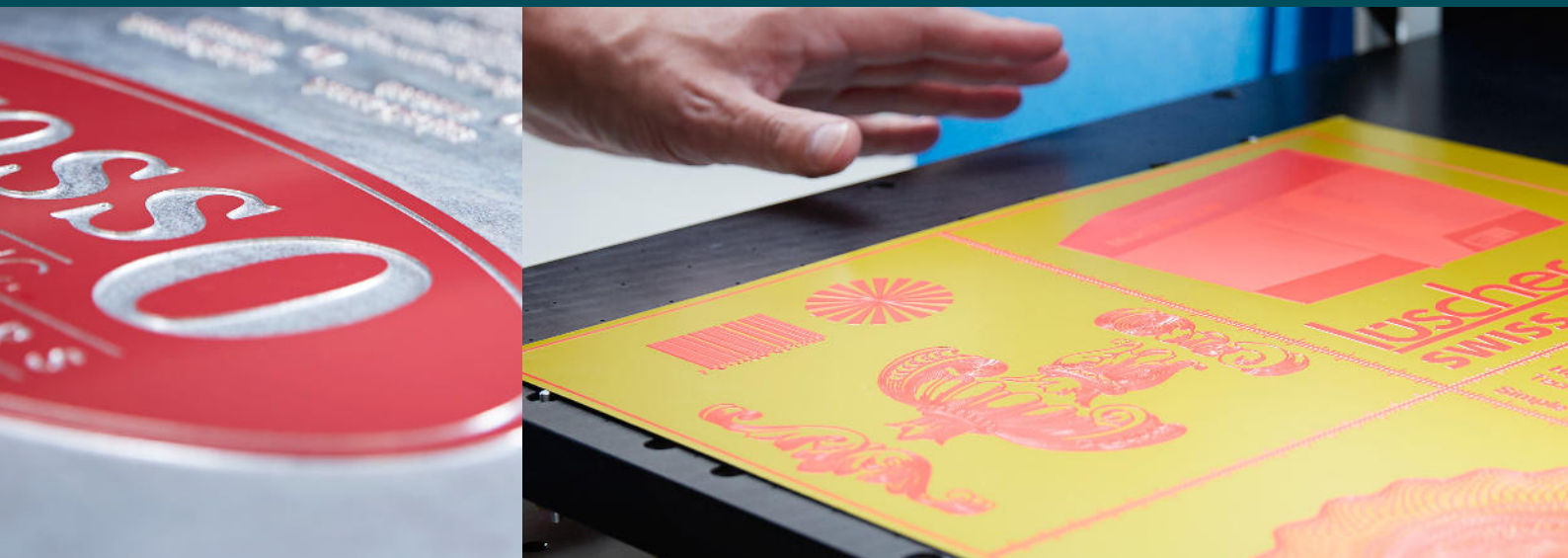
CONVENTIONAL OFFSET PRINTING PLATES

FILM, DIAZO AND ABLATIVE

EMBOSSING WITH COPPER OR ALUMINUM

PAD-PRINTING CLICHES

PRINTED ELECTRONICS



### **A Milestone in Imaging Technology**

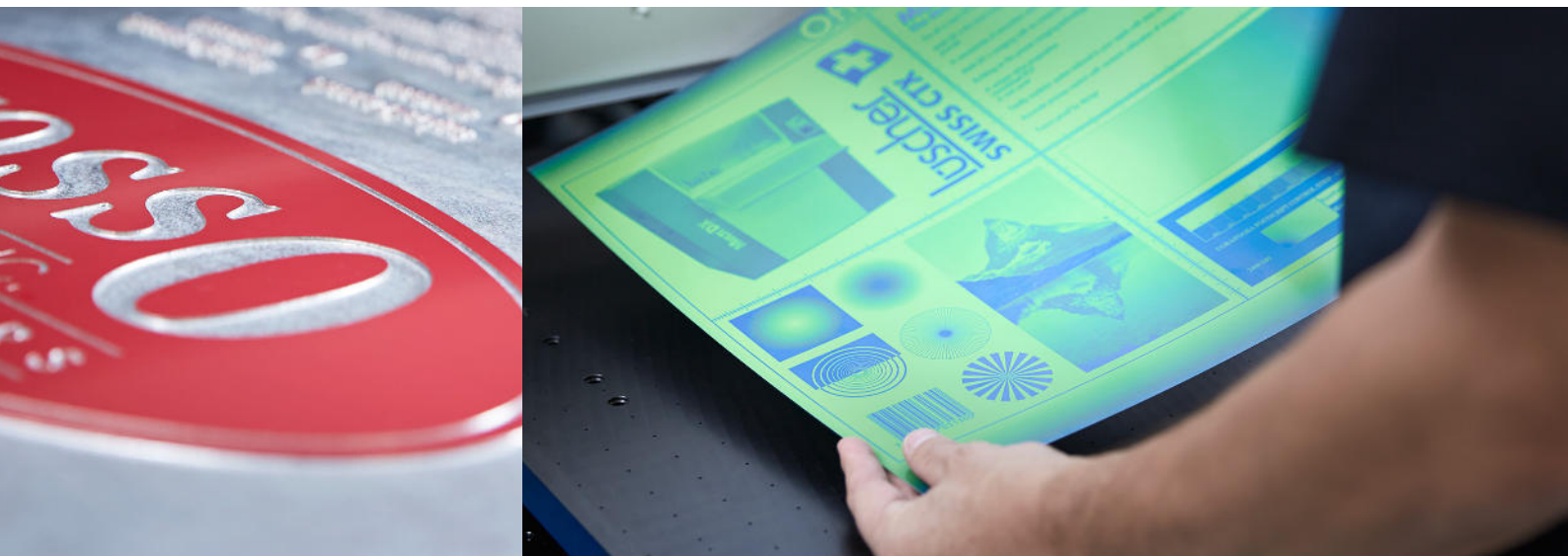
Lüscher is the first manufacturer worldwide having developed an imagesetter combining two different types of lasers in one machine. Whether thermally crosslinking polymers, polymers with ablative layers (LAMS), UV photosensitive emulsions or UV crosslinking polymers are in use: MultiDX! Is equipped with fibre-coupled laser diodes in the required wavelength (nm). The number of laser diodes depends on the exposure performance required by the customer. An on-site upgrade to increase the output performance can be made anytime.

### **Universal Direct Imaging**

Printing forms with steel, aluminum or polyester bases can be imaged in any size, shapes and thickness. The printing form remains static during the exposure. For this reason, balancing problems as they may occur with external drum systems as far as variable thickness and size are concerned, are no longer an issue with MultiDX!.

### **Custom-built Registering System**

The flatbed layout of MultiDX! allows the integration of custom-built registering systems for perfect alignment of the image on the printing form. As a result, the set-up time in the printing press is substantially reduced, which leads to significant savings in terms of material and cost.



# Technical Specifications

<b>Flex</b>	<b>MultiDX! 220</b>	<b>MultiDX! 240</b>
Laser type	Infrared, 940 nm	
Number of laser diodes	8, 16, 24 or 32	8, 16, 24, 32, 40, 48, 56 or 64
Productivity rate flexo plates m <sup>2</sup> /h <sup>1)</sup>	1	2.5
<b>T-Flex</b>	<b>MultiDX! 220</b>	<b>MultiDX! 240</b>
Laser type	Thermo, 830 nm HiPower	
Number of laser diodes	8, 16, 24 or 32	8, 16, 24, 32, 40, 48, 56 or 64
Productivity rate offset number of plates/h, flexo m <sup>2</sup> /h <sup>1)</sup>	4.3 / 1	3.4 / 2.5
<b>UV-Flex</b>	<b>MultiDX! 220</b>	<b>MultiDX! 240</b>
Laser type	UV, 405 nm / infrared, 940 nm <sup>2)</sup>	
Number of laser diodes	Maximum 48 UV or maximum 24 infrared <sup>3)</sup>	Maximum 112 UV or maximum 56 infrared <sup>3)</sup>
Productivity rate offset number of plates/h, flexo m <sup>2</sup> /h, screen m <sup>2</sup> /h <sup>1)</sup>	6.4 / 0.8 / 2.7	5.1 / 22 / 6.4
<b>UV</b>	<b>MultiDX! 220</b>	<b>MultiDX! 240</b>
Laser type	UV, 405 nm	
Number of laser diodes	16, 32, 48 oder 64	16, 32, 48, 64, 80, 96, 112 oder 128
Productivity rate offset number of plates/h, screen m <sup>2</sup> /h <sup>1)</sup>	8.5 / 3.6	6.8 / 8.5
<b>Thermal</b>	<b>MultiDX! 220</b>	<b>MultiDX! 240</b>
Laser type	Thermo, 830 nm	
Number of laser diodes	8, 16, 24 or 32	8, 16, 24, 32, 40, 48, 56 or 64
Productivity rate offset number of plates/h <sup>1)</sup>	4.3	3.4
<b>General Information</b>	<b>MultiDX! 220</b>	<b>MultiDX! 240</b>
Maximum printing plate (L x W x H) in mm	800 x 600 x 50	1300 x 1100 x 70
Resolution in dpi	1200, 2400, 2540, 4000/4800, 5080, 8000/9600, 10160 <sup>4)</sup>	1200, 2400, 2540, 4000/4800, 5080 <sup>4)</sup>
Dimensions (L x W x H) in mm	1741 x 1462 x 1375	3172 x 2169 x 1487
Average power consumption (with / without suction)	approx. 0.8 / 0.5 kW	approx. 1.8 / 1.5 kW
Weight	490 kgs (1080 lbs)	2000 kgs (4409 lbs)
Power supply	230 V, 50 – 60 Hz, 16 A	3 x 400 V, + N + PE, 50 – 60 Hz, 32 A
Ambient conditions	40 – 65% humidity at 18 – 25°C (64,4 – 77°F)	

<sup>1)</sup> Depending on material, resolution and number of laser diodes

<sup>2)</sup> If required, 830 nm laser may be used instead of 940 nm

<sup>3)</sup> Depending on the configuration

<sup>4)</sup> Other resolutions are available upon request





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