

# Lüscher MultiDX!

With the world's most 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 with the highest quality and efficiency.



# Lüscher MultiDX!

THE UNIVERSAL FLATBED IMAGESETTER

LÜSCHER TECHNOLOGIES AG HAS ENHANCED AND EQUIPPED THE MULTIDX! 320 AND 340 FLATBED IMAGESETTERS WITH STATE-OF-THE-ART TECHNOLOGY. THE MOST IMPORTANT FEATURE OF THE NEW LAYOUT IS THAT THE MULTIDX! 320 CAN BE EQUIPPED WITH TWICE THE AMOUNT OF LASERS.

## Maximum Productivity

Due to its flatbed layout, almost any flexible and inflexible printing form can be imaged in highest quality at a resolution of up to 10,160 dpi. Doubling the number of lasers means increasing the productivity by 100%.

## Steady Exposure Quality

Prior to every exposure, a laser sensor checks all lasers and readjusts them if necessary. This guarantees an absolutely steady quality during the entire exposure. Also prior to every exposure, the dynamic auto focus system compensates any unevenness of the plate material during the exposure by measuring the plate material and by calibrating the optics accordingly.

## Low Power Consumption

The revised control system makes operating easier and more user-friendly. And last but not least, the average power consumption has come down to less than 1 kWh.

## Applications

### Unique Hybrid Technology

In a number of fields, such as the label printing industry, a combination of different printing methods using various printing forms are being applied. Traditionally, at least two different CTP systems would be necessary to meet this requirement. With the hybrid technology of MultiDX!, two laser technologies combine with variable wavelengths (e.g. 405 nm UV and 940 nm IR) allowing any printing form to be exposed in one machine. Offset plates, flexo and letterpress plates and printing screens can now be processed in the same printing press (Gallus, Mark Andy, Nilpeter and others). Switching between the wavelengths is made by a simple click of a button. Nothing could be easier.

### Label Printing

Using the hybrid technology, MultiDX! can image any kind of printing form in one machine: flexo, letterpress and offset plates as well as flat or rotary screens (Gallus, Tecno Screen® by Kocher + Beck or Stork RotaPlate®). The integrated Dual Resolution Optics with 2540 and 5080 dpi also covers Full HD Flexo printing.

### Embossing with Copper and Magnesium Cliches

Copper or magnesium cliches for embossing in any thickness can be exposed with UV lasers (etch resist) for ultimate precision.

### Flat and Rotary Screen Printing

Flat or rotary screens are exposed easily and at the highest precision with UV lasers. Any common steel or polyester mesh can be processed. At all times, the machine has enough power capacity to cure thick layers to allow trouble-free printing.

### Printing on Cans, Cups and Tubes

Various printing forms for almost any printing method using cylindrical shapes can be imaged: waterless offset printing plates, flexo and letterpress plates as well as flat or rotary printing screens.

### Pad Printing

Steel or polymer cliches for pad printing can be processed by MultiDX! in any thickness. The printing form is either exposed with UV lasers (etch resist) or ablated with infrared lasers (polymer) with the highest precision.

### Industrial Printing

For industrial printing, MultiDX! 320 and 340 can be equipped with optics at a resolution of up to 10,160 dpi, also in dual resolution if requested. Printing screens or flexo printing plates with lines of up to 20 microns can be produced at ease.

KIWO provides innovative solutions for all of your screen making needs.  
We would love to discuss your application needs, and how we can help to optimize your process.

**Please contact us today!**

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