

Lüscher JetScreen! LT

Latest Generation JetScreen! LT stands for an entirely new generation of CTS system using the same Swiss precision engineering and CTS know-how, but with state-of-the-art laser technology developed by Lüscher Technologies AG. This equipment sets new standards in digital imaging of printing screens and is available in various formats up to 216.5 x 125.9 inches (5500 x 3200 mm).



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HIGH TECH CTS SYSTEM WITH UV LASERS FOR LARGE FORMATS

FOR MORE THAN 70 YEARS, LÜSCHER HAS BEEN DESIGNING AND MANUFACTURING MACHINERY FOR THE GRAPHIC ARTS INDUSTRY. AS EARLY AS 1992, LÜSCHER INTRODUCED JETSCREEN TO THE WORLD MARKET: A COMPUTER TO SCREEN (CTS) SYSTEM USING BOTH INKJET AND HOTMELT TECHNOLOGY – COMMONLY USED IN THE 90'S. IT WAS THE FIRST OF ITS KIND AND HAVING NOTCHED UP MORE THAN 700 INSTALLATIONS, JETSCREEN WAS THE MOST SUCCESSFUL CTS SYSTEM OF ITS TIME.

Tailored to Customer Needs

The laser configuration of JetScreen! LT can be optimally adapted to match customer requirements. Equipped with a maximum of 128 laser diodes in the UV range of 405 nm, the system is able to reach an exposure speed of up to 45 m² per hour at a resolution of 635 dpi*. The desired quality and speed ratio can be optimized by means of a new Trioptic! system – allowing a choice of three resolutions: 635, 1270 and 2540 dpi.

*) The exposure speed depends on the type of fabric used, the quantity of laser diodes and the sensitivity of the emulsion.

Laser Exposure System for Any Coating

- Lüscher Trioptic! System with resolution of 635 / 1270 / 2540 dpi
- Upgrade to a higher number of lasers on site at any time
- Fully automatic calibration of lasers prior to every exposure
- Dynamic autofocus
- Output performance up to 45 m²/h (depending on configuration)
- Automatic screen feed (optional)
- Customary emulsions and thick layers can be imaged and hardened
- Ultra-long service life of laser diodes with more than 20,000 exposing hours
- Low maintenance and energy costs

Lüscher Trioptic!-System

Depending on the specific quality requirements, the desired resolution can be selected at the touch of a button. Be it 635, 1270 or 2540 dpi, the resolution is directly related to the output performance, thus JetScreen! LT always operates in an optimal quality and speed range. As an option, some JetScreen! LT types are available with a resolution of up to 5080 dpi.

UV Laser Technology

The fiber-coupled laser diodes operate in the 405 nm range and are characterised by an ultra-long service life of more than 20,000 exposing hours. They are absolutely maintenance-free and are cooled by Peltier elements.

High Performance Reserves

The laser diodes have a high power capacity, so their energy can be adapted to the requirements of every coating. There is no need for high speed coatings: Any standard emulsion or thick layer can be imaged and cured by JetScreen! LT.

Highest Exposure Quality

The optional X!Tend software pushes past the physical limits of screen printing: X!Tend allows imaging of finer graphic elements compared to any standard imaging technique.

Fully Automatic Calibration

Prior to every exposure, the system checks the default laser settings relating to the coating to be imaged and automatically checks and calibrates the laser diodes if necessary. This saves time and virtually eliminates exposure errors.

Lowest Maintenance and Energy Cost

JetScreen! LT does not require any consumables such as metal halide lamps, LEDs or DMD chips. Its extremely low power consumption of 2 kW guarantees the lowest possible operating costs. Every JetScreen! LT is equipped with a port for Remote Support Service, which can be directly linked to our hotline via internet.

Inline Processing

As an option, an automatic screen feeder can be added to JetScreen! LT to be integrated in an inline throughput system.

Custom Engineering

Every machine is designed and built according to individual customer needs. We will be glad to assist you in designing your own JetScreen! LT.

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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