

Screen! Cube

The Game-Changing Laser CtS System
for T-Shirt, Garment and Transfer Printing



BASED ON INNOVATION.

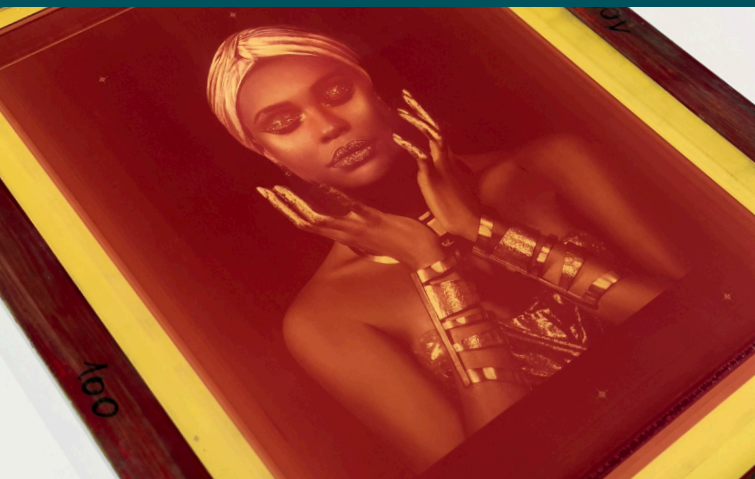
luscher
Technologies

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 +20'000 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 Screen! Cube

- HIGHEST ENERGY OUTPUT ON SCREEN FOR ALL EMULSION TYPES INCLUDING STANDARD DIAZO-PHOTO POLYMER (DUAL-CURE) EMULSIONS. CAPILLARY FILMS CAN BE EASILY IMAGED AND FULLY CURED AS WELL
- NO CONSUMABLES SUCH AS WAX / INK / MH LAMPS/ UV LAMPS / LEDS OR DMD CHIPS
- ULTRA-FAST DIRECT IMAGING FOR TEXTILE AND TRANSFER SCREENS
- EASY TO OPERATE, USER-FRIENDLY AND CONVENIENT
- SPECIAL SCREEN PRE-REGISTRATION SYSTEM FOR ALL MAJOR BRANDS OF TEXTILE AND TRANSFER PRINTING PRESSES



Technical Specifications of the Screen! Cube

MachineType	Min. Frame Size (L x W)	Max. Frame Size (L x W)	Max. Imaging Area (L x W)	Weight
Screen! Cube	356 x 229 mm (14.0 x 9.0 inch)	1'150 x 900 mm (45.3 x 35.4 inch)	950 x 710 mm (37.4 x 28.0 inch)	700 kg (1'543 lb)

General Information of the Screen! Cube

Feature	Specification
Machine Dimensions (L x W x H)	1'925 x 1'632 x 1'338 mm (75.8 x 64.3 x 52.7 inch)
Dual Resolution	600 / 1'200 dpi
LaserType	UV, 405 nm
Number of Laser Diodes	32 / 48 / 64 / 96 / 128
Power Supply	230 V / 50 - 60 Hz / 16 A
Power Consumption	approx. 0.4 kW
Ambient Conditions	40 - 65 % humidity at 18 - 25 °C (64.4 - 77 °F)
Room Conditions	yellow light, vibration-free floor

Designed to Meet the Highest Demands in Textile and Transfer Screen Imaging

Lüscher's Laser Diode Technology

The fiber-coupled laser diodes operate in the 405 nm range and are characterized by an ultra-long service life of +20'000 imaging hours. They are completely maintenance-free, no need for an active cooling system.

Fully Automatic Calibration

Prior to each imaging, the system checks the default settings of the laser diodes in relation to the emulsion to be imaged and automatically checks and calibrates the laser diode if necessary. This guarantees consistent quality and eliminates image errors.

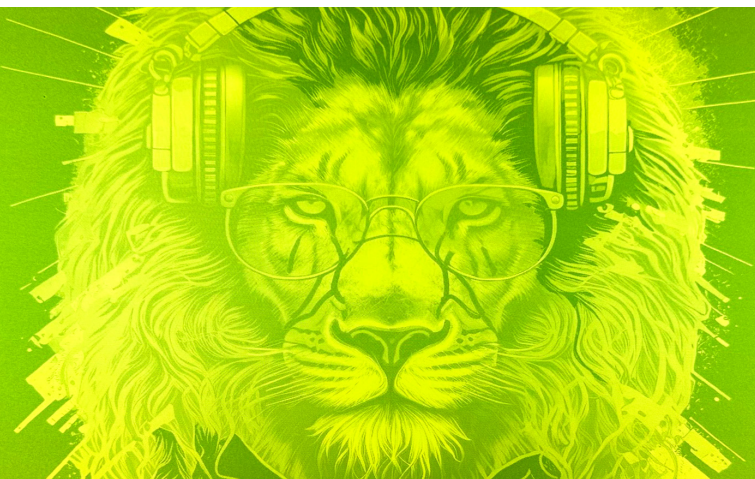
Lowest Energy Consumption

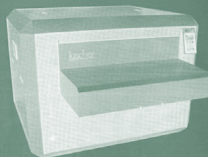

Lüscher's patented laser diode technology ensures minimal power usage of approx. 0.4 kW, reducing costs and providing a lower total cost of ownership. This promotes environmentally friendly production for customers.

Virtually Maintenance-free

Screen! Cube does not require any consumables such as Wax, Ink, MH lamps, UV lamps, LEDs or DMD chips.

Lüscher's maintenance software guides the operator through the simple maintenance tasks and guarantees high reliability. Screen! Cube is equipped with a port for Remote Support Service, which can be directly linked to our technical support via the internet.












Screen! Cube

Ultra-compact CTS System

Lüscher optic system with resolution of 635 - 1270dpi
Up to 128 laser diodes in the UV range of 405 nm
Ultra-long service life of laser diodes with more than 20'000 exposing hours
Dynamic autofocus system, compensation of screen unevenness
Fully automatic and continuous laser control and calibration
Optional XiTend software
Highest energy output



High Performance Reserves

The laser diodes have high power capacity, allowing their energy to be adapted to the requirements of any emulsion. There is no need for high-speed CtS emulsions; any standard emulsion or thick layer can be imaged and cured by Screen! Cube.

Dual resolution included

With a simple click of the button you can switch between two different resolutions according to your needs. With 600 dpi you achieve the fastest speed and 1'200 dpi guarantees highest quality. The unique dual resolution optical system makes sure that the Screen! Cube always operates in an optimal quality and speed range.

Upgradeable

Additional laser diodes can be added at any time for faster imaging speed.

Ultra-fast Direct Imaging for Textile Screens

The Screen! Cube provides rapid direct imaging of textile screens, with the option for future upgrades to increase screen output capacity.

User-friendly Operation

The Screen! Cube is designed for easy handling and operation, with fast screen loading and Lüscher's eco-friendly laser technology, ensuring a positive and efficient user experience.

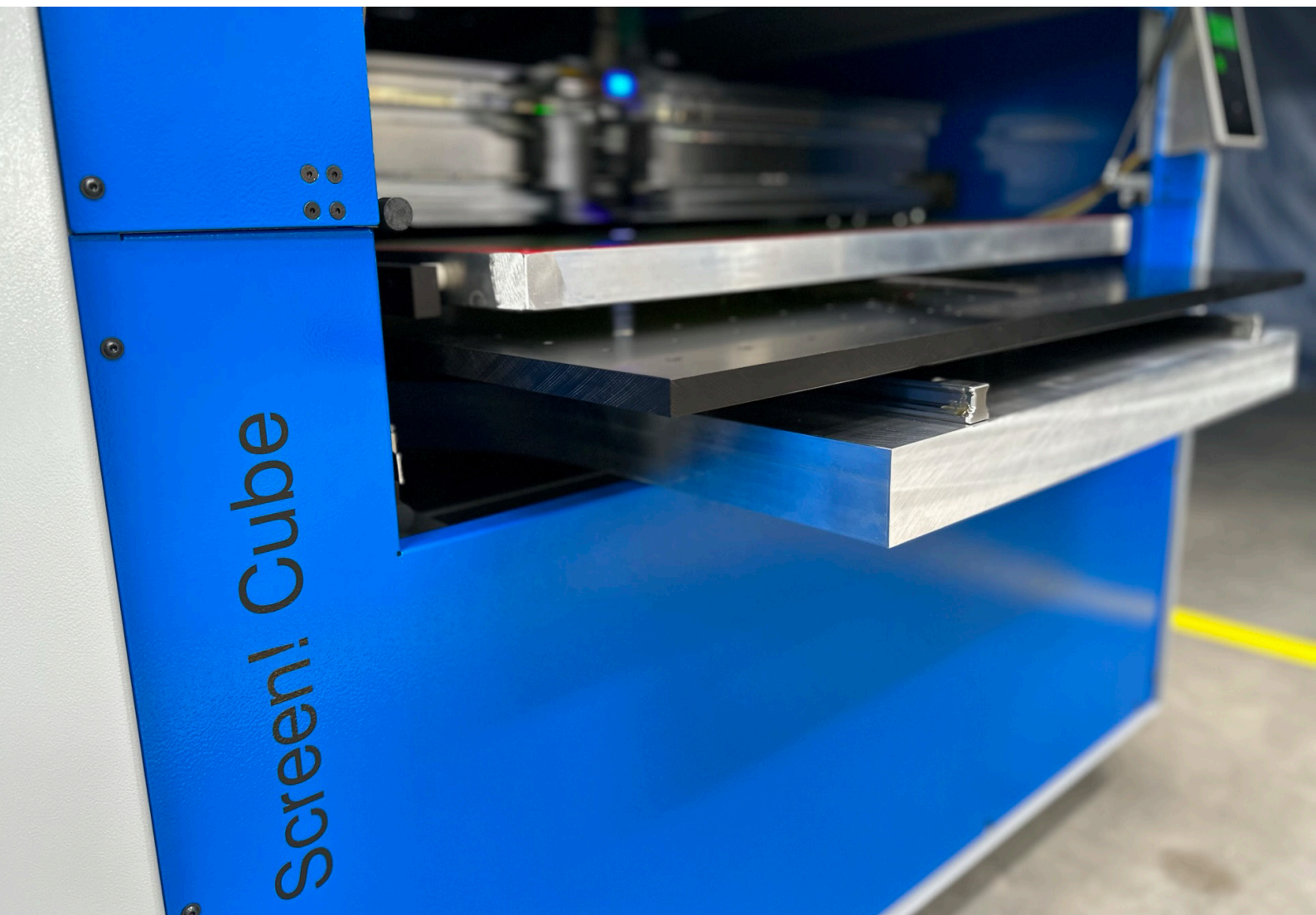
Screen System for Pre-registration on all Major Textile and Transfer Brands

The Screen! Cube features a screen clamping system compatible with major press brands, allowing for accurate pre-registration of screens. Screens with standard 3-point register can also be imaged in the Screen! Cube.

User-friendly Software

User-friendly software is included with the Screen! Cube, making it easy to navigate and understand, featuring clear and concise instructions, intuitive interfaces, and straightforward functionalities that enhance the user experience.





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