

Screen! Cube

The Game-Changing Laser CtS System
for T-Shirt and Garment Printers



BASED ON INNOVATION.

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Technologies


Advantages of the Patented Lüscher Laser Diode Technology

- PROVEN AND TRUSTED TECHNOLOGY MADE IN SWITZERLAND
- MAINTENANCE-FREE FIBRE OPTIC COUPLED LASER DIODE TECHNOLOGY
- FULLY AUTOMATIC CALIBRATION OF LASER DIODES
- ULTRA-LONG LIFESPAN OF THE LASER DIODES WITH +20'000 EXPOSING HOURS
- UPGRADEABLE – ADDITIONAL LASER DIODES CAN BE ADDED AT ANYTIME FOR FASTER EXPOSING SPEED
- HIGH-ENERGY LASER DIODES FOR HIGHEST ENERGY OUTPUT, NO ACTIVE COOLING SYSTEM REQUIRED
- NO CONSUMABLES
- OPERATES VIRTUALLY MAINTENANCE-FREE
- LOW ENERGY CONSUMPTION, LOWEST COST OF OWNERSHIP

Advantages of Screen! Cube

- HIGHEST ENERGY OUTPUT ON SCREEN FOR ALL EMULSION TYPES INCLUDING STANDARD DIAZO-PHOTO-POLYMER (DUAL-CURE) EMULSIONS. CAPILLARY FILMS CAN ALSO BE EASILY EXPOSED AND FULLY CURED
- NO CONSUMABLES SUCH AS WAX / INK / MH LAMPS/ UV LAMPS / LED'S OR DMD CHIP
- ULTRA-FAST DIRECT EXPOSING FOR TEXTILE SCREENS
- EASY TO OPERATE, USER-FRIENDLY AND CONVENIENT
- SPECIAL SCREEN PRE-REG CLAMPING SYSTEM FOR ALL MAJOR BRANDS OF PRESS INCLUDING MHM, M&R & ROQ AND STANDARD 3-POINT REGISTER SYSTEM
- OPTIONAL CLAMPING SYSTEM FOR NECK LABEL SCREENS








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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

Technical Specifications of Screen! Cube

Machine type	Min. Frame Size (W x D)	Max. Frame Size (W x D)	Weight
Screen! Cube	530 x 730 mm (21 x 29 inch)	660 x 950 mm (26 x 37 inch)	700 kgs (1543 lbs)

General Information of Screen! Cube

Dimensions

Machine dimensions (L x W x H)	1'925 x 1'632 x 1'338 mm (75.78 x 64.25 x 52.67 inch)
Resolution	1'270 dpi
Laser type	UV, 405 nm
Number of lasers	32 / 48 / 64 / 96 / 128
Register system	MHM / M&R / ROQ / 3-Point
Power supply	230 V / 50 – 60 Hz / 16 A
Power consumption	0.4 kW
Ambient conditions	50 – 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 Screen Exposure

UV Laser Diode Technology

The fibre-optic coupled laser diodes operate in the 405 nm range and boast an ultra-long service life of +20'000 exposing hours. They are completely maintenance-free and do not require any active cooling system.

High Performance Reserves

The laser diodes have a high-power capacity. Screen! Cube can expose and cure any standard emulsion or thick layer, without the need to use high speed CTS emulsions.

Fully Automatic Calibration

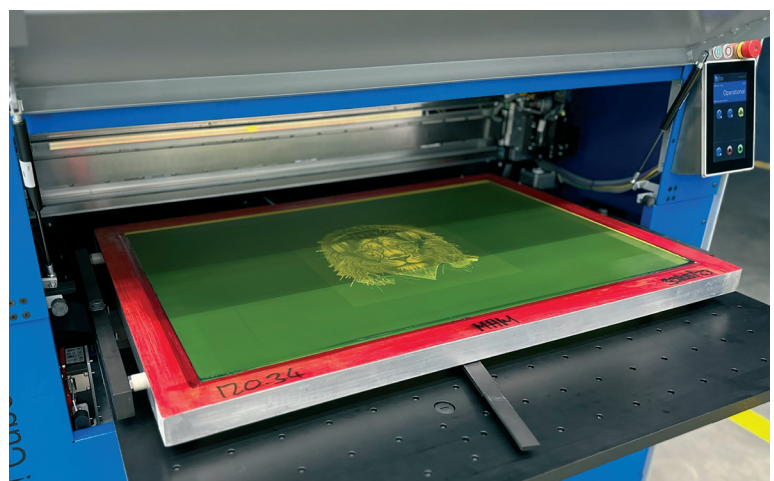
Prior to every exposure, the system checks the default laser diodes settings relating to the emulsion to be exposed and automatically checks and calibrates the laser diode if necessary. This guarantees consistent screen quality and eliminates exposure errors.

Virtually Maintenance-free

Screen! Cube does not require any consumables such as MH lamps / UV lamps / LED's or DMD chip. Lüscher 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 internet.

Lowest Energy Consumption

Lüscher's unique laser diode technology guarantees extremely low power consumption of 0.4 kW and lowest cost of ownership. This helps the customer to achieve environmental-friendly production.



Ultra-fast Direct Exposing for Textile Screens

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

User-friendly Operation

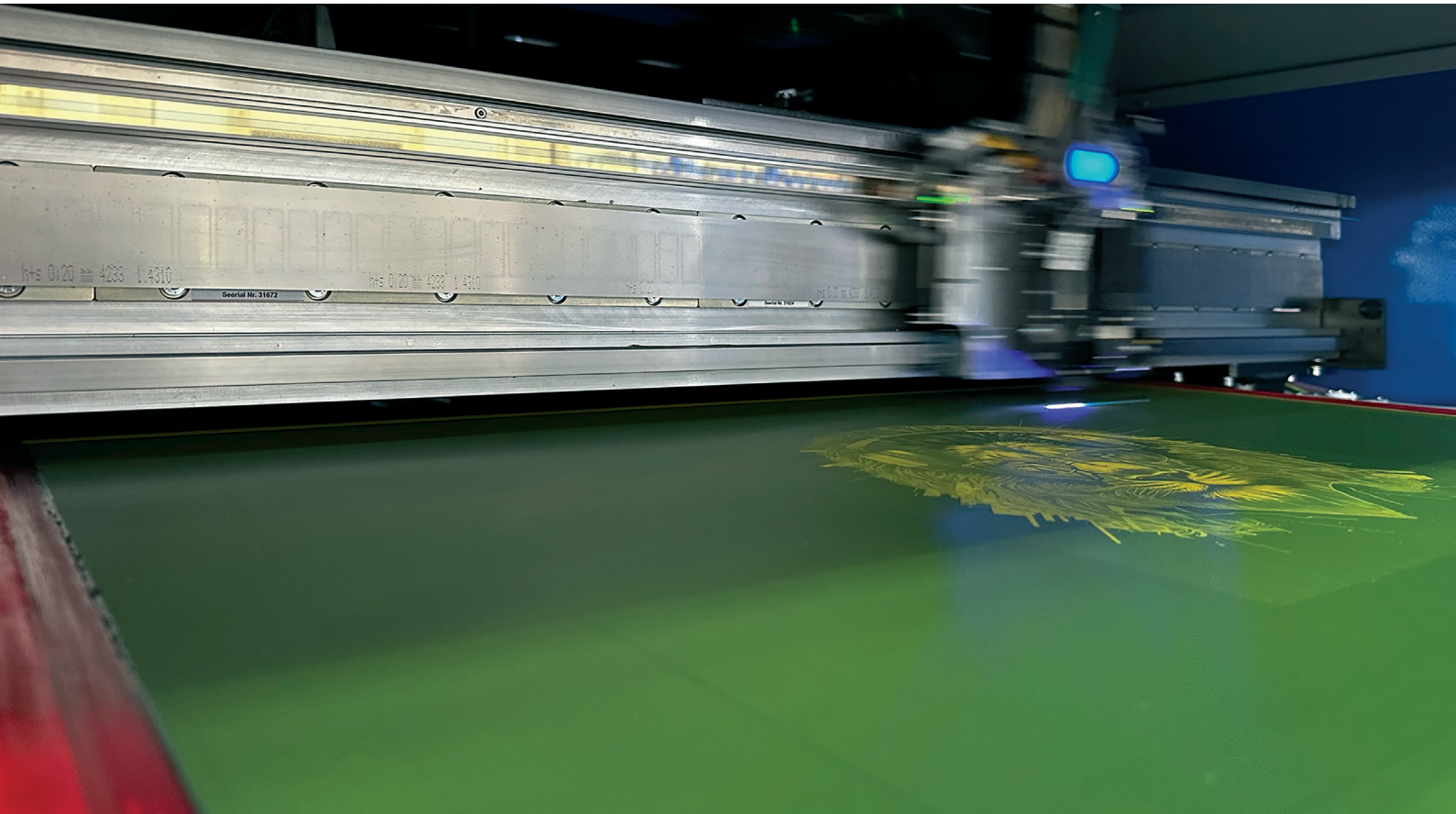
The Screen! Cube is designed for easy handling and operation, with fast screen loading and Lüscher's eco-friendly laser technology, ensuring a positive and efficient user experience.

Screen Clamping System for Pre-registration on all Major Brands of Press

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 exposed 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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