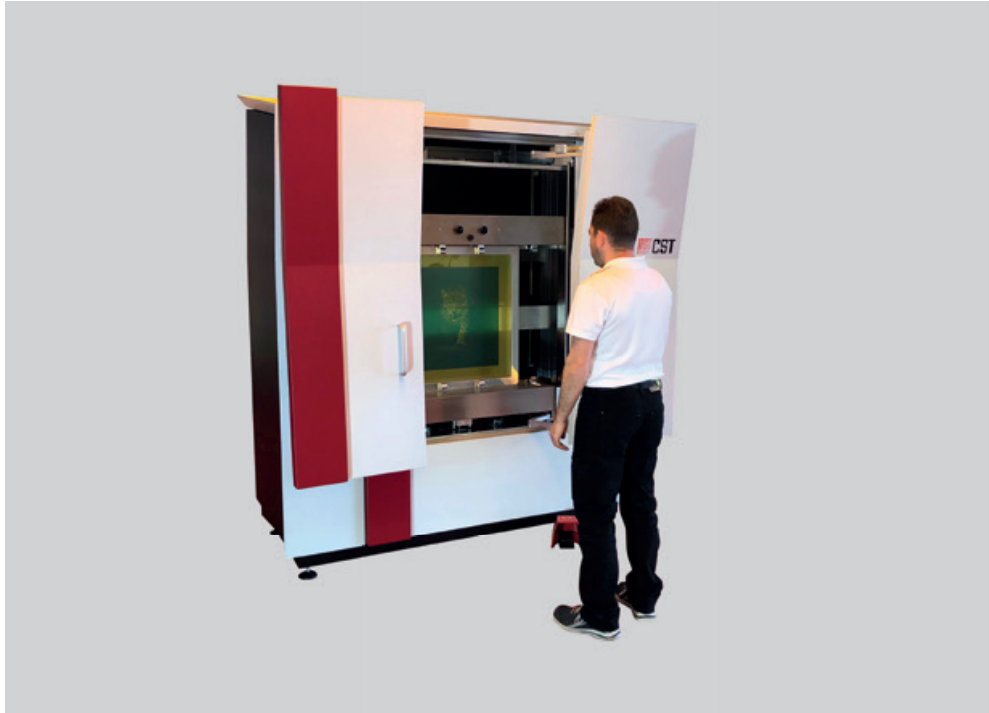


Established in the market – valued by a wide range of customers



CST proudly introduces the DLE screen imaging system, our latest development in screen imaging technology. Utilizing a digitally controlled mirror device manufactured by Texas Instrument, the DLE screen imaging system images and exposes the screen directly from computer-to-screen. The new and efficient scrolling and digital light processing technology sets new standards in screen imaging and is patented. The ECO+ machinery is based on a vertical setup optimized for small formats with highest resolution for the industrial screen print application.



# CST

**CST GmbH** · Königsberger Straße 117 · 47809 Krefeld · Germany  
Tel +49 2151 159 226 0 · Fax +49 2151 520 329 · email office@c-s-t.de

**CST GmbH (R&D)** · Kriegerstraße 26a · 82110 Germering · Germany  
Tel +49 89 844 873 · Fax +49 89 845 942 · email office@c-s-t.de

[www.c-s-t.de](http://www.c-s-t.de)

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### DIGITAL LIGHT IMAGING

Directly imaging and exposing coated screens eliminates screen masking by wax, ink or film. Consumables are no longer needed. A Digital Mirror Device (DMD) modulates an ultra-high power UV light source with image data using up to 2.000.000 micro mirrors. While the DMD moves over the screen in sequence, the data scrolls continuously and results in perfectly seamless image production. As each of the mirrors represents one pixel, high speeds are possible and the imaging quality is exceptionally high. Resolutions of up to 2.500 dpi are possible.

DMD is the best light modulator for this application presently available on the market. Texas Instrument, the world leader in micro-mechanical mirror modulators, provides the DMD for the DLE screen imaging system. With millions systems in operation since 1996, the DMD is a state of the art technology that's proven in resilience and dependability.

### DLE COMPARED TO OTHER SCREEN IMAGING METHODS

This process totally eliminates ink, wax, film, darkroom and the associated chemical and film processing, masking, retouching and taping of films.

The benefits are obvious: The screen is produced easier, faster, cheaper, at higher quality levels and with less production steps.

### LED TECHNOLOGY

The new generation of DLE machines contains modern UV light sources. These LED light sources are integrated. This improves the stability and

### TECHNICAL SPECIFICATIONS

**maximum screen size** up to 900 x 900 mm

Please contact CST for your exact requirements

**power requirements** 230 V single phase, 2,5 kVA

**machine speed** up to 20 squaremeter/hour  
depending on resolution

**exposure system** DMD-System with LED light source  
**resolution** 2.500 dpi

- Autofocus system to compensate various distances between mesh and headsystem
- Remote access connection for easy service
- Automatic calibration system

the lifetime of the fully encapsulated light source drastically.

### OUR COMPANY

CST GmbH has established an excellent reputation in the fields of colour scanners, film plotters and screen imaging systems, reflected by large market share and worldwide sales to more than 50 countries with more than 1.800 installations. Using the latest in mechanical and electrical technology, our engineering team develops the reliable and accurate lines of machines optimized for ease of operation, high productivity and quality.

### THE CST PRODUCT RANGE AT A GLANCE

- DLE  
DLE ROTARY  
DLE-NEW COMPACT  
DLE-ECO  
DLE-ECO+
- Rotary and flatscreen waxjet/  
InkJet engravers
- Special solutions for engraving  
and scanning



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