



## Applications

Our unique technology allows to adapt the equipment as much as possible to the clients application. Such adaptations can be reached by selecting the best matching machine type out of the product line and by customisation in terms of the format, the optical system, the type of DMD chip and a potential inline configuration. After this the unit should be perfectly configured for the use in your screen imaging application such as:

- Automotive
- Labels Security Industrial
- Textile Sports equipment
- Ceramic Membrane switches
- Electronics Decals Glass
- Graphic



**OUR COMPANY NETWORK**

  

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## High performance products

You prefer, we provide.

## About

CST GmbH is the leading global supplier for state of the art screen imaging systems to the industry. Our patented technology provides the best possible solution for the most demanding applications. The new imaging system utilizing a DMD chip allows for various resolutions, very fast imaging speeds and low production costs. We deliver into more than 50 countries worldwide.





## Our products

We manufacture systems to expose both, flat and rotary screens. Our machines are custom built depending on requirements of the customer application. We engineer for various resolutions, head systems and machine formats. We have built machines for flat screens up to 8 x 4,5 meters and 1,680 mm circumference rotary screens. Our machinery is designed for global production.



## Your advantages

- + High exposure quality
- + LED Technology for long lifetime
- + Various sizes available
- + Fast exposer time by using HD-chip
- + Zeiss Optics
- + Easy handling
- + In-Line-Version
- + Conversion of existing equipment to newest technology
- + Global network
- + Outstanding support

## CST DLE Product Line

\* Special customized sizes and configurations can be manufactured upon request for additional pricing



	DLE VERTICAL	DLE NEW COMPACT	DLE ECO	DLE ECO+	DLE ROTARY	DLE ROTARY+
<b>PLATFORM</b>	Vertical	Vertical	Horizontal	Vertical	Rotary	Rotary
<b>MAXIMUM SCREEN SIZES *</b>	Unlimited	1,500 mm x 1,500 mm (59" x 59")	2,000 mm x 3,000 mm (79" x 118")	900 mm x 900 mm (35" x 35")	3,500 mm width all repeats	3,500 mm width all repeats
<b>AVAILABLE DPI RESOLUTIONS</b>	500/720/1,000/1,270	500/720/1,000/1,270/2,540	720/1,000	2,540	1,000	2,540
<b>SD DMD (1024 X 768)</b>	500/720/1,000/1,270	500/720/1,000/1,270	500/720/1,000	Not Available	1,000	Not Available
<b>HD DMD (1920 X 1080)</b>	720/1,270	720/1,270/2,540	Not Available	2,540	Not Available	2,540
<b>INLINE CAPABILITY</b>	✓	✓	Not Available	Not Available	Not Available	Not Available
<b>AVAILABLE POWER</b>	230V/110V single phase 1/N/PE 2,000 VA 50/60Hz	230V/110V single phase 1/N/PE 2,000 VA 50/60Hz	230V/110V single phase 1/N/PE 2,000 VA 50/60Hz	230V/110V single phase 1/N/PE 2,000 VA 50/60Hz	230V/110V single phase 1/N/PE 2,000 VA 50/60Hz	230V/110V single phase 1/N/PE 2,000 VA 50/60Hz
<b>FRAME CLAMPING</b>	Pneumatic	Pneumatic	Manual	Pneumatic	Manual	Manual
<b>LIGHT SOURCE</b>	Multi-Wavelength LED UV	Multi-Wavelength LED UV	Multi-Wavelength LED UV	Multi-Wavelength LED UV	Multi-Wavelength LED UV	Laser Diodes
<b>REMOTE DIAGNOSTICS</b>	✓	✓	✓	✓	✓	✓
<b>DATA INPUT</b>	Data Interface Tiff 6.0	Data Interface Tiff 6.0	Data Interface Tiff 6.0	Data Interface Tiff 6.0	Data Interface Tiff 6.0	Data Interface Tiff 6.0

## Technology

**DIGITAL MIRROR DEVICE (DMD)**  
A Digital Mirror Device (DMD) modulates ultrahigh power UV light with image data, using up to 2,000,000 micro mirrors. While the DMD moves across the screen surface it sweeps the data scrolls continuously and results in perfectly seamless image production. As each of the micro mirrors represents one pixel, high speeds are possible and the imaging quality is exceptionally high. Resolutions of up to 2,540 dpi are possible.

DMD is the best light modulator for this application presently available on the market. Texas Instruments, the world leader in micro-mechanical mirror modulators, provides the DMD for the DLE screen imaging system. With millions of systems in operation since 1996, the DMD is a state of the art technology which is fail-safe and proven in reliability.

**LED TECHNOLOGY**  
The new generation of DLE machines contains modern UV light sources. These UV LED light sources are fully integrated. This improves the stability and the lifetime of the fully encapsulated head system drastically.

**DLE ADVANTAGES**  
This process totally eliminates ink, wax, film, darkroom the associated chemicals, film processing, masking, retouching and taping of films. The benefits are obvious: The screen is produced easier, faster, less expensive, at higher quality levels and with less production steps.

