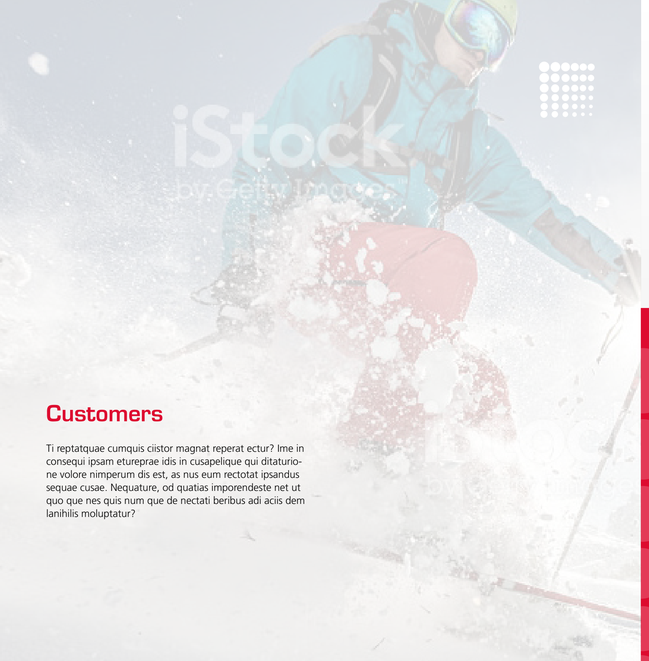

Customers

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Glass

Sport Equipment

Industrial Automotive

Textile

Advertising

Electronic boards

Ceramic

CST

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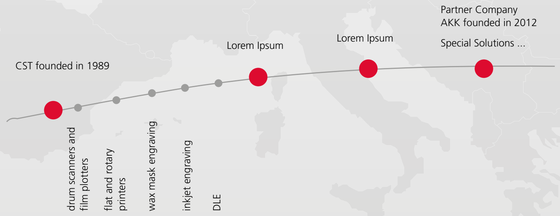
Lorem Ipsum dolor

High performance products

CST

About

CST GmbH is a leading global company supplying state of the art screen imaging to the graphics world. Our patented production methods provide the best possible solutions for the most demanding appli-cations. The new imaging system utilizing a DMD chip manufactured by Texas Instruments allows for variable resolution, very fast engraving speed and low production costs. Another large market for CST is textiles. The CST GmbH is delivering to more than 50 countries worldwide.



Our products

We offer systems to expose both flat and rotary screens. Our machines are custom built depending on the customer field of application. We engineer for various resolutions, head systems and machine sizes. We have built machines up to 8 x 3 meters print widths. Our machinery is designed for global production

Your advantages

- Upgrades of existing machines to the newest technology are possible
...

CST DLE Product Line

** Special customized sizes and configurations can be manufactured upon request for additional pricing
*** Extended warranty plans and maintenance contracts available upon request

					
	DLE VERTICAL	**DLE NEW COMPACT**	**DLE ECO**	**DLE ECO+**	**DLE CLASSIC**
PLATFORM	Vertical	Vertical	Horizontal	Horizontal	Rotary
MAXIMUM SCREEN SIZES **	Unlimited	1.5m x 1.5m 59" x 59"	2m x 3m 79" x 118"	900 mm x 900 mm 35" x 35"	3500 width all_repeats
AVAILABLE DPI RESOLUTIONS	500, 720, 1000, 1270	500, 720, 1000, 1270, 2540	720, 1000	2540	1000
SD DMD (1024 X 768)	500, 720, 1000, 1270	500, 720, 1000, 1270	500, 720, 1000	Not Available	1000
HD DMD (1920 X 1080)	720 & 1270	720, 1270 & 2540 only	Not Available	2540 only	Not Available
INLINE CAPABILITY	✓	✓	Not Available	Not Available	Not Available
AVAILABLE POWER	230V / 110V single phase 1/N/PE 2000VA 50/60Hz	230V / 110V single phase 1/N/PE 2000VA 50/60Hz	230V / 110V single phase 1/N/PE 2000VA 50/60Hz	230V / 110V single phase 1/N/PE 2000VA 50/60Hz	230V / 110V single phase 1/N/PE 2000VA 50/60Hz
FRAME CLAMPING	Pneumatic	Pneumatic	Manual	Manual	Manual
LIGHT SOURCE	Multi-Wavelength LED UV	Multi-Wavelength LED UV	Multi-Wavelength LED UV	Multi-Wavelength LED UV	Multi-Wavelength LED UV
REMOTE DIAGNOSTICS	✓	✓	✓	✓	✓
RIP (OPTIONAL)	Xitron Navigator	Xitron Navigator	Xitron Navigator	Xitron Navigator	internal RIP
DATA INPUT	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
WARRANTY ***	1 year	1 year	1 year	1 year	1 year

Technology

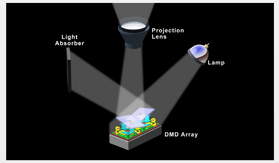
DIGITAL MIRROR DEVICE (DMD)
A Digital Mirror Device (DMD) modulates an ultrahigh power UV light source with image data using up to 2,000,000 micro mirrors. While the DMD moves over the screen in sequence, the data scrolls continuously and results in perfectly seamless image production. As each of the 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.

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

SCREEN HOLDER SYSTEM
The screen is held by 2 conical adapters on each side. The screen length is adjusted by the right side adapter. Under software control, the screen is pressurized with a constant air flow. With this method, a perfectly round screen shape is achieved ensuring highest engraving quality. The DLE head distance is automatically adjusted to different screen circumference by an autofocus system.

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.



Technology

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 ultrahigh 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.

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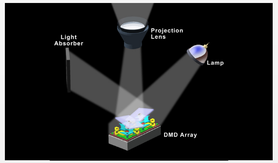

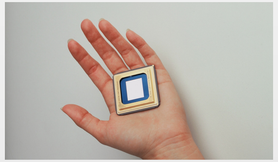

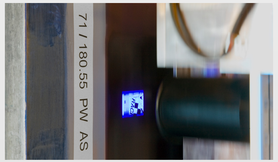

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Products

FLAT MACHINES
The CST GmbH flat machines are used gloabally for both graphical and textile markets. Our R&D department develops the newest methods to match to the customer requirements to their needed application. Also upgrades of existing machines to the newest technology are possible.

DLE ECO
The DLE ECO combines economy and performance at its best.

DLE ECO+
The DLE Eco+ is our newest product. This unit is developed for high end quality exposure of offset plates, screens, films and Polymer. We showed the new DLE Eco+ first at DRUPA in Düsseldorf.

DLE CLASSIC
The DLE machine is delivered with screens positioned vertically and produced according to individual needs. More than 100 machines are running satisfactory worldwide.

DLE NEW COMPACT
The DLE „ New Compact" is mainly used as a high end quality product, up to 2540 dpi in vertical position, so that it can be easily adapted for an in line production.

Reihefolge Vgl. Tabelle? Was ist mit DLE Vertical?

ROTARY MACHINES
The CST GmbH rotary machine is used by the leading global textile manufacturing companies. Our R&D department develops the newest methods to match to the customer requirements to the needed application. Also upgrades of existing machines to the newest technology is possible.

DLE ROTARY
DLE Rotary are currently using the same technic as the flat machines, but today exclusively for rotary screens. Of course, the engraving is seamless and there is no need to mention various resolutions and all sizes are available.

INKJET ROTARY
For Screen engraving our rotary inkjet machine is a less expensive and even faster machine than the DLE, but with a more limited quality.

LASER ROTARY
The DLE machine is delivered with screens positioned vertically and produced according to individual needs. More than 100 machines are running satisfactory worldwide.

CST DLE Product Line

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Foto fehlt

Richtiges Foto fehlt

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AVAILABLE POWER	230V / 110V single phase 1/N/PE 2000VA 50/60Hz	230V / 110V single phase 1/N/PE 2000VA 50/60Hz	230V / 110V single phase 1/N/PE 2000VA 50/60Hz	230V / 110V single phase 1/N/PE 2000VA 50/60Hz	230V / 110V single phase 1/N/PE 2000VA 50/60Hz
FRAME CLAMPING	Pneumatic	Pneumatic	Manual	Manual	Manual
LIGHT SOURCE	Multi-Wavelength LED UV	Multi-Wavelength LED UV	Multi-Wavelength LED UV	Multi-Wavelength LED UV	Multi-Wavelength LED UV
REMOTE DIAGNOSTICS	✓	✓	✓	✓	✓
RIP (OPTIONAL)	Xitron Navigator	Xitron Navigator	Xitron Navigator	Xitron Navigator	internal RIP
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