

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

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



OUR COMPANY NETWORK



www.c-s-t.de · www.a-k-k.de · www.kesper-druckwalzen.de







CST GmbH

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

CST GmbH (R&D)

Kriegerstr. 26a 82110 Germering · Germany E-Mail office@c-s-t.de

About

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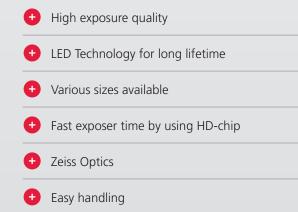
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Our products

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



| Ð | Conversion of existing equipment to newest technology |
|---|-------------------------------------------------------|
| Ð | Global network |
| Ð | 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+ |
| PLATFORM | Vertical | Vertical | Horizontal | Vertical | Rotary | Rotary |
| MAXIMUM SCREEN SIZES * | 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 |
| AVAILABLE DPI RESOLUTIONS | 500/720/1,000/1,270 | 500/720/1,000/1,270/2,540 | 720/1,000 | 2,540 | 1,000 | 2,540 |
| SD DMD (1024 X 768) | 500/720/1,000/1,270 | 500/720/1,000/1,270 | 500/720/1,000 | Not Available | 1,000 | Not Available |
| HD DMD (1920 X 1080) | 720/1,270 | 720/1,270/2,540 | Not Available | 2,540 | Not Available | 2,540 |
| INLINE CAPABILITY | \checkmark | 1 | Not Available | Not Available | Not Available | Not Available |
| AVAILABLE POWER | 230 V/110 V single phase 1/N/PE 2,000 VA 50/60 Hz | 230 V/110 V single phase 1/N/PE 2,000 VA 50/60 Hz | 230 V/110 V single phase 1/N/PE 2,000 VA 50/60 Hz | 230 V/110 V single phase 1/N/PE 2,000 VA 50/60 Hz | 230 V/110 V single phase 1/N/PE 2,000 VA 50/60 Hz | 230 V/110 V single phase 1/N/PE 2,000 VA 50/60 Hz |
| FRAME CLAMPING | Pneumatic | Pneumatic | Manual | Pneumatic | Manual | Manual |
| LIGHT SOURCE | Multi-Wavelength LED UV | Laser Diods |
| REMOTE DIAGNOSTICS | ✓ | 1 | 1 | <i>✓</i> | \checkmark | V |
| DATA INPUT | 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 in 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.

