



Three experts. One world of surfaces.

Scanning. Engraving. Embossing.

History

Kesper Druckwalzen GmbH (since 1875)

- Colour separation
- Embossing cylinders
- Flexo Sleeves
- Flexo cylinders
- Rotary screens
- Stripping screens (refurbishing of used screens)

CST GmbH (since 1989)

Exposure of:

- Flat screens
- Rotary screens
- Inline machinery

Applications like:

- Textil
- Graphics
- Automotive
- Glass
- Ceramic
- Decal

AKK GmbH (since 2010)

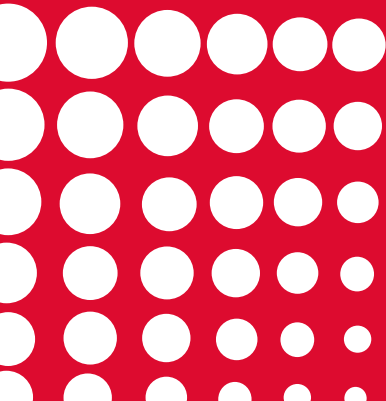
Flexo

- Yag Laser engraver
- CO₂ Laser engraver

Embossing

- 2D & 3D Scanner
- Ablation Yag Laser
- Mask Engraver
- Flat and rotary
- Prototyping solution
- Spray etching unit

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Digital Light Imaging

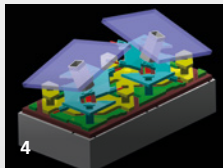
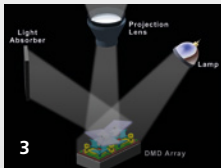
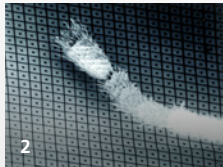


A Digital Mirror Device (DMD) modulates an ultrahigh power LED UV light source with image data using up to 2,000,000 micro mirrors. While the DMD moves over the screen in sequence, the data scrolls continuously and results in perfectly seamless image production.

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.

Screen imaging with DLE

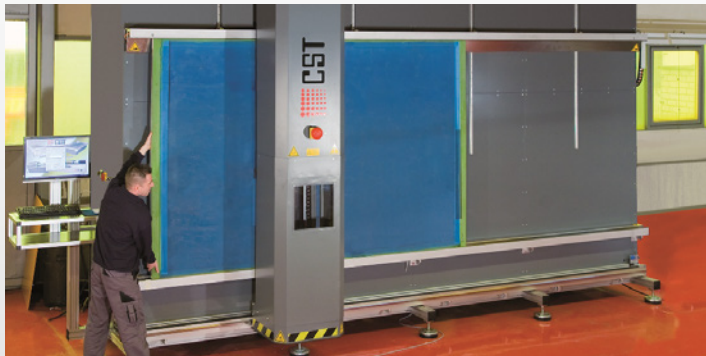
- The DMD chip ¹
- The mirrorsurface ²
- The mirrorflipping ⁴
- The light principle ³



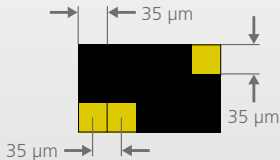
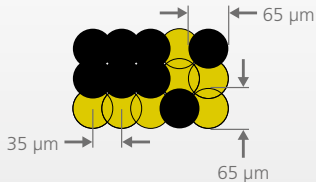
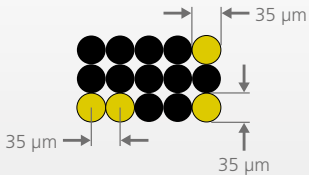
DLE Exposure



DLE Classic



DLE Pixel construction



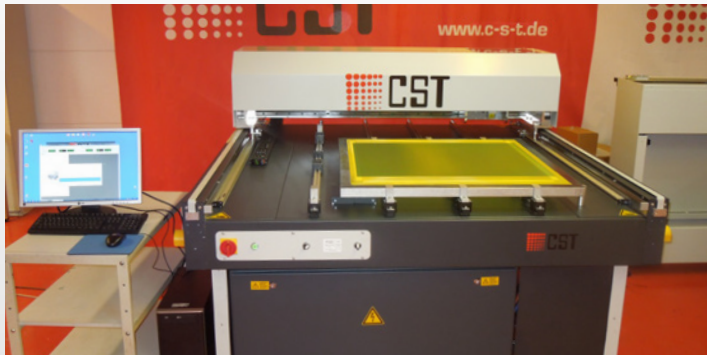
DLE Classic



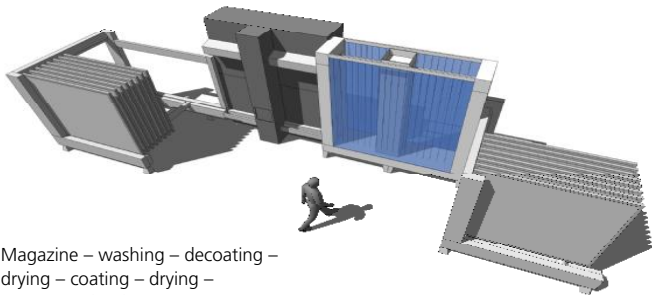
DLE New Compact



DLE Eco



Inline Machinery



Magazine – washing – decoating –
drying – coating – drying –
imaging – developing – magazine

DLE Eco+



DLE Rotary



CST DLE Product Line Comparison Chart

	DLE Vertical	DLE New Compact
Platform	Vertical	Vertical
**Maximum Screen Sizes	Unlimited	1.5m x 1.5m 59" x 59"
Available DPI Resolutions	500, 720, 1000, 1270	500, 720, 1000, 1270, 2540
SD DMD (1024 x 768)	500, 720, 1000, 1270	500, 720, 1000, 1270
HD DMD (1920 x 1080)	720 & 1270	720, 1270 & 2540 only
Inline Capability	✓	✓
Available Power	230V / 110V single phase 1/N/PE 2000VA 50/60Hz	230V / 110V single phase 1/N/PE 2000VA 50/60Hz
Frame Clamping	Pneumatic	Pneumatic
Light Source	Multi-Wavelength LED UV	Multi-Wavelength LED UV
Remote Diagnostics	✓	✓
RIP (Optional)	Xitron Navigator	Xitron Navigator
Data Input	Data Interface Tiff 6.0	Data Interface Tiff 6.0
***Warranty	1 year	1 year

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

*** Extended warranty plans and maintenance contracts available upon request

DLE ECO	DLE ECO+	DLE Rotary
Horizontal	Horizontal	Rotary
2m x 3m 79" x 118"	900 mm x 900 mm 35" x 35"	3500 width all_repeats
720, 1000	2540	1000
500, 720, 1000	Not Available	1000
Not Available	2540 only	Not Available
Not Available	Not Available	Not Available
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
Manual	Manual	Manual
Multi-Wavelength LED UV	Multi-Wavelength LED UV	Multi-Wavelength LED UV
✓	✓	✓
Xitron Navigator	Xitron Navigator	internal RIP
Data Interface Tiff 6.0	Data Interface Tiff 6.0	Data Interface Tiff 6.0
1 year	1 year	1 year

AKK GmbH (since 2010)



Flexo

- Yag Laser engraver
- CO₂ Laser engraver

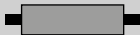
Embossing

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- Flat and rotary
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- Spray etching unit

Mask Engraver Rotary

Production of
embossing cylinders

- 3D Scanner
- Art Work
- Mask engraving



Plain steel



A jet-head jets the negative design on the cylinder. The jetted etchresist protects the cylinder. Slow rotation.



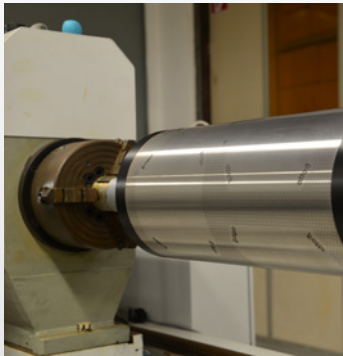
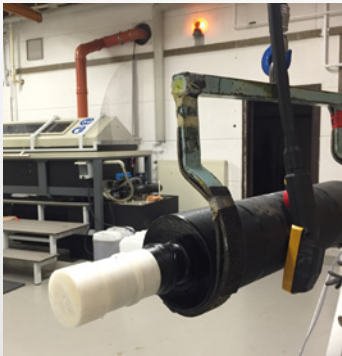
etching

- Chrome planting (outside)

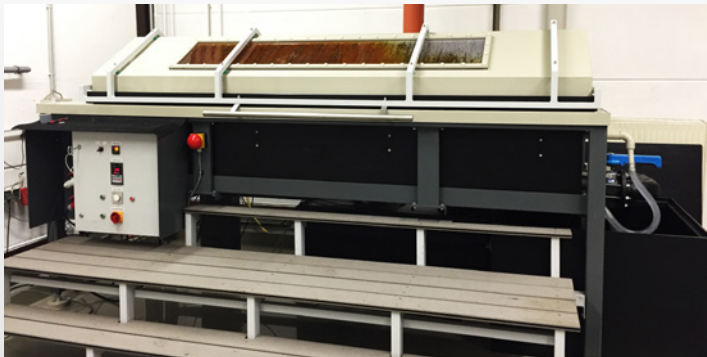
Mask Engraver Rotary



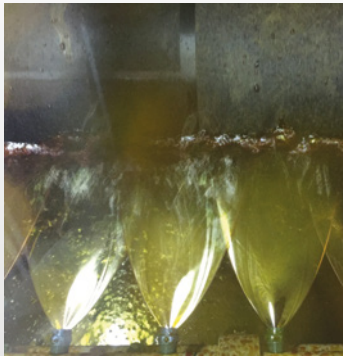
Mask Engraver Rotary



Spray etching machine



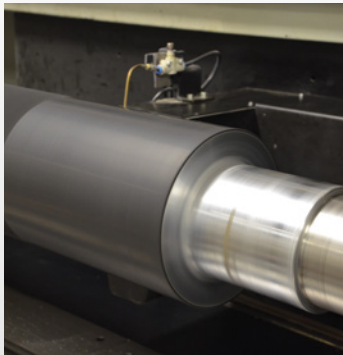
Spray etching machine



Laser Engraver Embossing



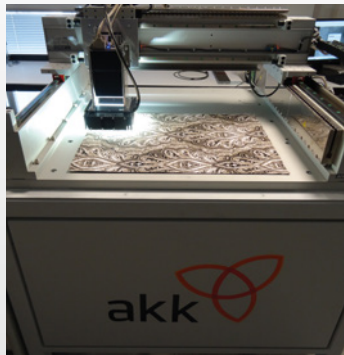
Laser Engraver Embossing



2D & 3D Scanner

The scanner C800 was specially developed to suit the wallpaper and décor industry. The target object is scanned using a new technique, scanning the original into data strips, in 2D and 3D simultaneous. The strips are stitched together seamless.

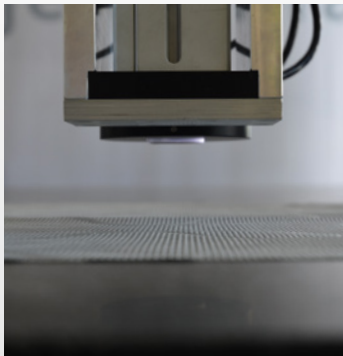
1700 dpi is the maximum resolution, with physical depth in 3D, up to 3 mm, with a 16 bit data output. Total scanning time for a typical size of 50 x 60 cm is less than 30 minutes.



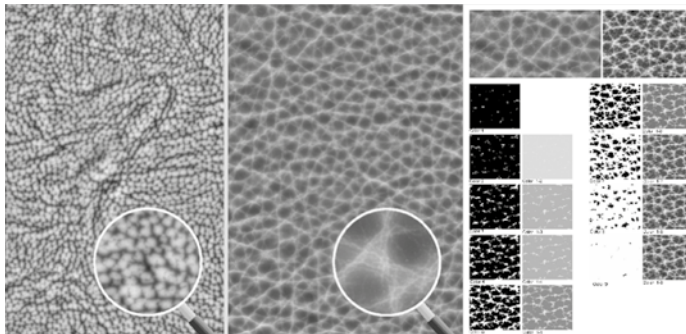
3D Scanner

The 3D scanner G800 has been developed for highly demanding applications such as the finest of textures and surfaces, including reflective types. Apart from leading customers in the automotive industry, it is well suited to the highest quality embossing applications of any types of scan surfaces.


The scan head is equipped with a pad, which is pressed onto the surface of the target scan object, and forms over the target structure, which is then illuminated from multiple light sources. A resolution of up to 3600 dpi is achieved.



3D Scanner



Screen CO₂ Laser



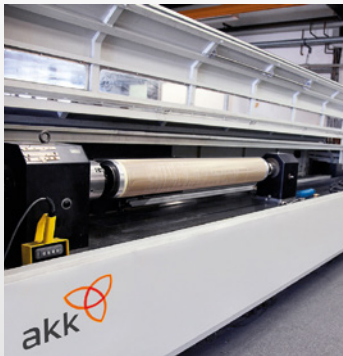
Production of screens

- 2D Scanner
- Art Work
- Unpacking rotary screen
- Rounding the screens in the oven
- Coating
- Polymerized of the emulsion
- Laser engraving
- Checking of screen
- Endring into the screen

Screen CO₂ Laser



Screen CO₂ Laser



Kesper Druckwalzen GmbH (since 1875)

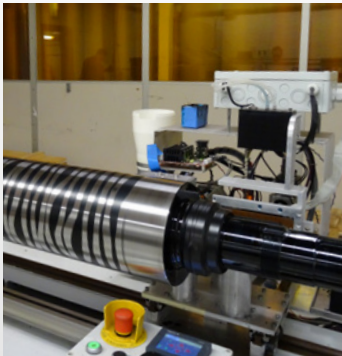
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- Stripping screens
(refurbishing of
used screens)



Studio



Embossing Cylinder



Embossing Cylinder



Flexo Sleeves / Cylinder



Rotary Screen



Rotary Screen



Stripping Rotary Screen



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