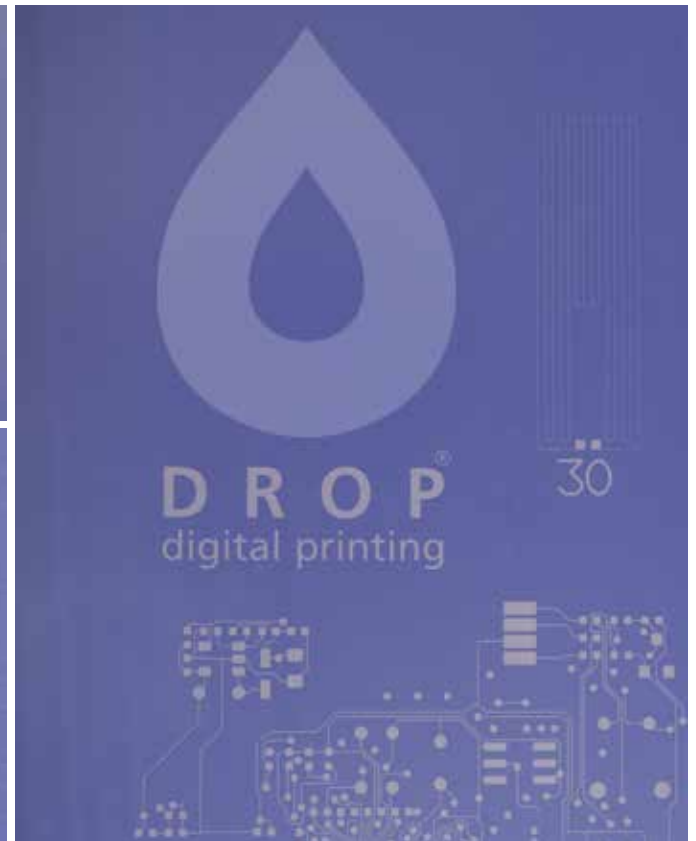




Advanced  
Computer to Screen &  
Computer to Plate Solution

# Phoenix DLES

Direct Laser Exposing System



## Phoenix DLES

With the Phoenix DLES UV laser direct exposers, high-quality printing plates / printing screens can be produced for almost all printing processes.

Whether for screen printing, rotary screen printing, offset printing, Folex foils, flexo plates or embossing dies, the Phoenix DLES offers a future-proof solution for the production of high-quality printing plates for classic and industrial printing applications at the highest level.

The unique, Japanese long-life UV laser with high-resolution DMD chip, 4° exposure technology and integrated auto-predictive autofocus guarantees reproducible quality and reliable machine runtimes, especially when producing UV-sensitive printing plates with the highest resolution.



 **Teca-Print**  
[www.teca-print.com](http://www.teca-print.com)

The image shows the Teca-Print logo and website address centered on a dark orange background. The logo consists of a stylized icon of a printing press followed by the text 'Teca-Print' in a bold, sans-serif font. Below the logo is the website address 'www.teca-print.com'. The entire graphic is surrounded by decorative, light-colored floral and scrollwork patterns.

## Advanced Computer to Screen / Computer to Plate Solution

With our customer-focused approach, we strive to provide technical innovation, integrated business solutions and services to meet the needs of our customers.

### Pad printing

#### Service

Our sales and service teams are professional. Together with selected top technicians, we work to solve problems and interruptions in the service process and to maximise the value of the equipment.

#### 375 nm, 405 nm, 980 nm Laser or in combination

The novel, coupled 375 nm, 405 nm or 980 nm laser illumination system was developed to increase the laser power from 30% to 50% of the conventional laser power.

#### Stable Platform

The Hiwin SP-class guide rail, linear motor and marble or steel housing ensure the stability of our units.

#### Independent R&D Software System

Independent exposing system that can be customized with the functions required.

# the horizontal

Specification Model*	DLES4050TP	DLES6580TP	DLES1010TP
<b>Application</b>	<b>Pad Printing</b>		
<b>Max screen size</b>	400 x 500 mm	655 x 800 mm	1000 x 1000 mm
<b>Min screen size</b>	50 x 50 mm		
<b>Vacuum table</b>	400 x 500 mm	650 x 800 mm	1000 x 1000 mm
<b>Imaging System</b>	DMD DLP Technology		
<b>Exposure time</b>	120 - 600 sec / sqm depend from resolution and polymer		
<b>Resolution</b>	1270 dpi / 2540 dpi / 3600 dpi / 5080 dpi / 12700 dpi and 25400 (vector - optional)		
<b>Raster</b>	150 LPI – 2540 dpi		
<b>Focus system</b>	Auto Focusing		
<b>File format</b>	1_bit tiff, Gerber, PDF (vector) etc.		
<b>Laser type</b>	UV laser, wavelength 375 nm		
<b>Laser power</b>	375 nm - 12 Watt or 15 Watt		
<b>Equipment size (mm)</b>	1450 x 1050 x 1650	1937 x 1350 x 1650	1740 x 1600 x 1500
<b>Equipment net weight</b>	750 Kg	1050 Kg	1300 Kg
<b>Structure</b>	Steel		Steel or Marble
<b>Conditions</b>	Yellow light room with cleanliness class 100000, temperature 22 ± 2° C, 40 - 70 % relative humidity (no condensation)		
<b>Power</b>	Single phase 220 V, 50/60 Hz, 4 kW, Compressed air: 0.5 MPa Single		

Other machine sizes available on request, for example 5060 and 7080

## Digital imaging technology

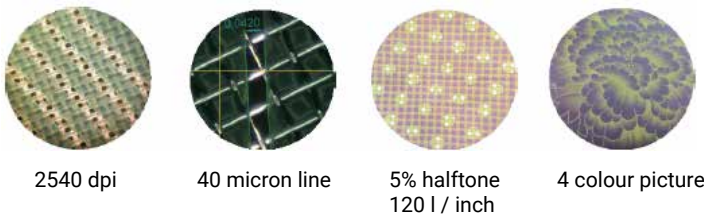
Digital images are produced with a DMD (Digital Micro-Mirror Device) that has more than 2 million micrometers of mirrors that produce clear and sharp square dots.

This advanced digital exposure system has become the new standard in the printing industry.



## High resolution

A 1270 dpi optical resolution enables quick and easy creation of high-quality 133LPI raster and halftone dots, while a 2540 dpi optical resolution delivers high-resolution curve lines and perfect FM halftone dots. Other resolutions are available (3600 dpi, 5080 dpi, 12700 dpi, 25400 dpi).



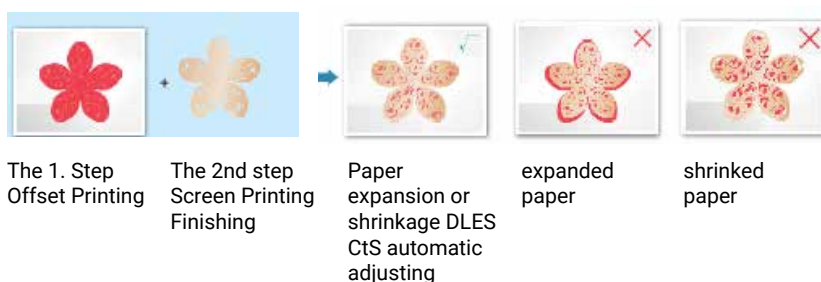
## PDF vector RIP algorithm 12,700 dpi (Option)

The advanced PDF segmentation algorithm enables high-quality PDF files with a resolution of 12,700 dpi. This method effectively eliminates the problem of jagged lines that can occur when converting vector files, resulting in improved accuracy and smoother, more cohesive images. It meets the high quality standards of the precision printing industry, streamlines the file conversion process, and increases production efficiency.



## Intelligent automatic stretching and shrinking – AI Scanner (Option)

After printing, paper needs to be stretched and shrunk. The conventional method can only be performed by tedious manual work. This method is very time consuming and inaccurate. AI's latest Stretch and Shrink function (Scanner) can first measure the amount of paper stretch and shrinkage, calculate the deformation, and make a highly accurate and automatic adjustment of the Tiff file to the deformation.





DROP by Hans Lüscher - Switzerland.

We would like to introduce ourselves as an innovative partner in digital prepress.

Phoenix DLES offers the latest digital technologies for the printing industry.



**Drop digital Printing**

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