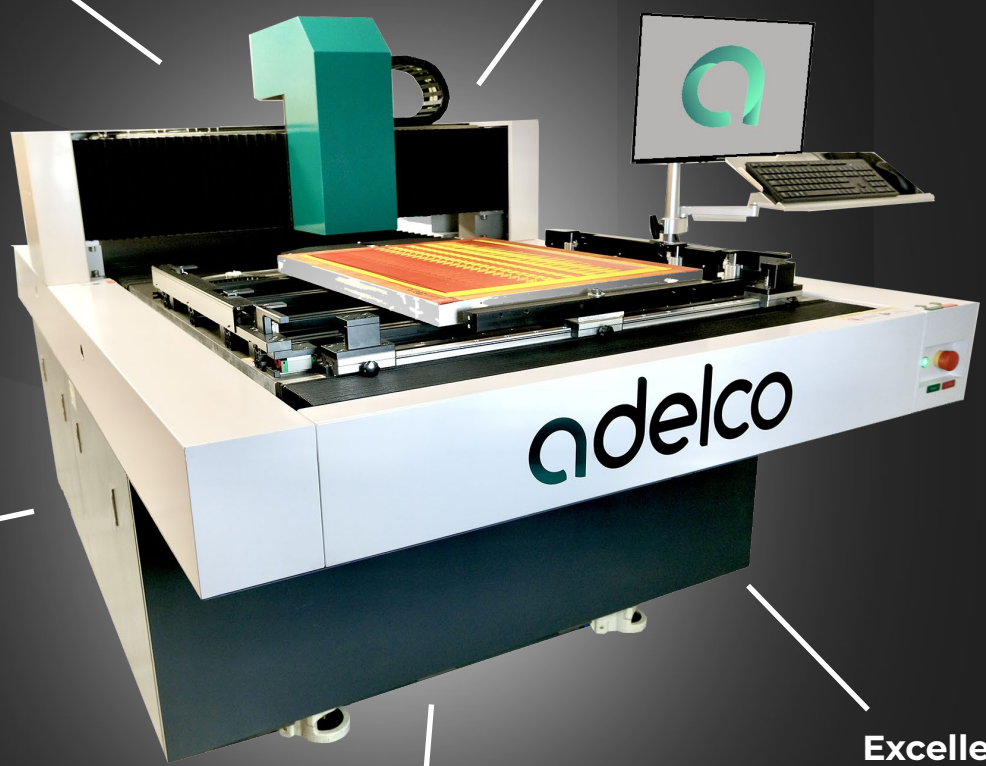
adelco LaserPro

An advanced Computer to Screen solution. High precision, High productivity, a truly simple process. This direct screen laser exposure system produces perfect screen plates.



No Consumables Needed

Fast & Highly Efficient

High resolution

Compatible with conventional processes

Excellent Laser Piercing Power

CTS Systems

Adelco's **LaserPro** machine, is a direct screen laser exposure machine to produce perfect screen plates. Data files are directly read by the computer to screen (CTS) and then converted into images which will be transmitted through **laser beams** onto screens by DMD and lens.

With **no added consumables**, and using Digital Imaging Technology, images are produced by DMD (digital micro-mirror device) which has over **800 thousand or 2 million micrometer** micro-mirrors, enabling clear and sharp square dots. This latest digital exposure system has now become the new standard for the screen printing industry.

- **High Precision and Resolution**
  Easy and fast to achieve raster 133LPI and high quality screen dots by the optical 1270dpi, while with the optical 2540dpi, **high definition curved lines** and **perfect FM screen dots** can be realised.

- **High Efficiency**
  Three minutes to finish the exposure on screen size 1000mm x 1000mm. **Stencil making efficiency** has been greatly improved due to a lot of time saved by the **acurate exposure alignment** and labour reduction.

- **Low Cost**
  Elimination of film positives. Litho film is becoming inceasingly expensive, and the suppliers on the market are decreasing. One procedure of the **LaserPro** digital screen making, **replaces five procedures of using the conventional process**.

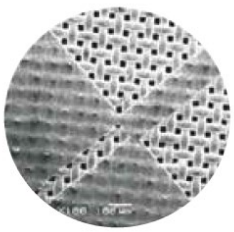
- **Excellent laser piercing power**
  15W, **20W** and **25W** three laser powers are optional, and the thickness EOM μm with solvent resistant emulsions and EOM 220μm with water resistant emulsion can be achieved for some special screen making such as carbon oil and capillary.

- **Compatible processes with the conventional process**
  Data files are directly read by the LaserPro and then converted into images which will be transmitted through laser beams onto screens by DMD and lens.

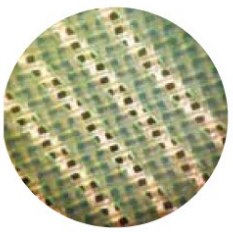
Specifications

Specification	Adelco Laser	Adelco LaserPro
Application	Textile, decals, labels, decrations, etc.	
Max Screen Size (mm)	900 x 1100mm	1080 x 1200mm
Min Screen Size (mm)	400 x 400mm	400 x 400mm
Max exposure Size (mm)	850 x 950mm	900 x 1000mm
Screen frame thickness	25 - 45 mm	25 - 45 mm
Imaging System	DMD DLP Technology	
Emulsion thickness (EOM)	Solvent resistant emulsion	3μm - 150μm
	Water resistant emulsion	3μm - 350μm
Exposure time	120 - 240s /M², 350 mesh yellow screen	
Resolution	1270dpi	1270dpi
Raster	120LPI	133LPI
File Format	1_ bit tiff	1_ bit tiff
Focus system	UVLD laser, wavelength 405 5±nm	
Laser Power	20W/25W	15W/20W/25W
Machine size mm	1740 x 1500 x 1480	2700 x 1550 x 1600
Equipment net weight	1200 KG	2200KG
Equipment Conditions	Yellow light room with cleanliness class 10000, temperature 22±2°C. 40 - 70% relative humidity (no condensation)	
Connections	Single Phase 220V, 50/60HZ, 4KW, Gas 1L/min	

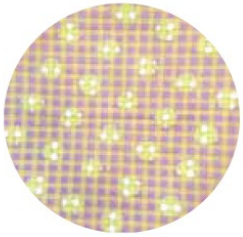
High Resolution



2540dpi



50-micron positve line on 120pw34(300/in)



5% halftone dots at 120lpi on 150pw31(380/in)

Four-colour picture