

Screen Printing

LED Ink Curing Solutions



The combination of low heat and high energy makes UV LED a great fit for screen printing, which allows a wider variety of materials to be used including plastics, metals, ceramics, glass, wood, posters and other items. UV LED for screen printing is most commonly used for direct bottle and tube decoration, which eliminates the need for a label.

Sustainability

- No mercury disposal
- Safer workplace
- No ozone

Operating Economics

- Up to 90% energy savings
- Low maintenance
- Longer lifetime

Increased Productivity

- Low or no heat on components
- Tighter process control
- Higher Yields

UV LED Curing Technology



UV LED curing solutions are being rapidly adopted for curing adhesives in factory assembly lines throughout the world. Low operating costs, long lifetime, and low maintenance are just a few of the reasons. Additionally, small electronic components maybe sensitive to heat and UV LED overcomes those issues by being a 'cool' light source.

Screen Printing Applications

Screen Printing is the most versatile of the commercial printing processes, covering a wide range of applications and substrates.



Glass Surface Printing

UV LED curing technology is integrated into decorative bottle printing units for a variety of label applications including bottle labeling machines and systems designed for direct printing on cylindrical containers. The small size of the light sources makes them ideal for machines with limited space. It also allows for printing on heat-sensitive substrates and ever-thinner labels. These solutions enable users to process a variety of materials at maximum production speeds, with low-input power requirements.



Printing on Cylindrical Objects

The new machines are being introduced for screen printing on pens, barrels and other small round articles. UV LED technology offers maximum UV output with significantly less energy consumption, along with cooler operating temperatures that allow for printing on heat sensitive substrates.



Tradeshow & Outdoor Displays & Banners



Transportation Branding & Marking

Using 3M™ Specialty Vinyls, large-scale printing utilizes UV LEDs to



Name Plates & Graphics