

Screen Printing Solutions

Proven disruptive technology transforming UV screen printing to LED

SST Offers Pioneering Industry Technology to Transform UV Screen Printing to LED

- Lowest available energy consumption and carbon emissions
- Fast payback on LED investment
- Eliminates heat from printing process
- Improves productivity and print quality
- Compatible with most common LED screen printing inks
- Simplifies the printing process
- Retrofit a press in a 1/2 day

The ONLY COLDCURE Technology in the Industry

ELIMINATES FIRES ON PRESS

- Decrease press downtime
- Decrease substrate, ink, and labor waste
- Increases productivity / yield

ELIMINATES SUBSTRATE DISTORTION FROM UV HEAT

- Faster and consistent registration
- Eliminates post print curling, mottling, or blocking due to heat
- Improved die cutting variability due to heat

SIGNIFICANT REDUCTION IN MAINTENANCE TIME AND COST

- No moving parts, reflectors or shutters
- Bulb replacement at least 15x less often
- Much less frequent maintenance
- Much less time per maintenance



Other Benefits

Energy cost and carbon emission reduction

- 90% reduction in curing systems v.s. UV
- I00% reduction in exhaust system
- Reduction in air conditioning costs in print room
- Eliminate fan/cooling equipment cost in finished product stacks
- High dosage and dwell time deliver
 - Faster curing timeImproved adhesion
- Eliminate need for roof penetration and maintenance of exhaust systems
- Eliminate air movement and dust from exhaust systems
- **Reduced square footage requirement for curing and exhaust**
- Significant reduction in noise in working environment
- Supports sustainability and green initiatives
- Eliminate VOC's and mercury





Read Our Latest Case Study

In 2018-2019, we replaced UV with SST LED on 11 screen presses from 40" to 60" wide -Total of 521". See the feedback below.

3-YEAR FOLLOW UP

Impacts from Eliminating Heat

• Fires have been eliminated

 Averaged 50 events per year @ 1/2 hour loss of production and 1.5 man hours per event

TRAN II

- Heat effects on substrate eliminated
- Removed exhaust systems
- Faster print registration
- Boundary Service Se
- Removed fans used to cool finished product stacks
- Mottling and blocking of finished product stacks
- Eliminated die cutting variability due to heat

Impacts on Productivity & Waste

Maintenance time reduced 75%

- 10 hours per year v.s. 40 hours = 30 hrs more productivity
- Exhaust system maintenance eliminated
- Waste material reduced 20% during this period
 - Eliminate wasted product from mottling Registration and die cutting due to heat
 - Reduced waste due to print defects from air movement and dust caused by exhaust systems

One of the better decisions I have made in 30 years with this company.

- GENERAL MANAGER

Environmental and Energy Impacts

	Tons of Carbon Emmissions / Yr				\$'s of Energy cost / Yr			
	Equipment		Reduction		Equipment		Reduction	
System	uv	SST LED	Tons	%	uv	SST LED	\$'s	%
Ink curing	557	54	-503	-90%	\$57,213	\$4,347	\$(52,866)	-92%
Exhaust	99	0	-99	-100%	\$15,505	\$829	\$(14,676)	-95%
Total	665	54	-602	-92%	\$72,718	\$5,176	\$(67,542)	-93%

Additional Observations

- Installation was a 1/2 day per press on average very low downtime
- Service and Support from SST has been excellent
- Durability and reliability has been very good after 17000+hours of print time per press
- Significant savings are being realized when moving to new print room by eliminating cost of penetration
- Eliminates 5%-10% less square footage required in new print room
- Noise levels reduced significantly
- Operators can discuss and hear if there are mechanical issues
- The sight-line across the print room floor is much improved and cleaner



SST Screen Brochure v.1.1