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APL *Smart* LED UV SYSTEMS
#highest power LED UV system in the World.



Company profile

APL Machinery Private Limited is one of India's leading Company in the Printing industry engaged in manufacturing of full range of UV Coating & Curing Systems and Screen Printing Machines. APL has the expertise to provide UV Coating solutions for Sheetfed printing (both Online and Offline), Web offset printing, RotoGravure printing and Wood, PVC profile printing.

In Screen printing industry it has provided solutions for halftone printing, UV special effects for Packaging printing, Round and 3D object printing. Headquartered in Faridabad, this ISO and CE certified company caters to domestic & international market effectively through established network of sales & service centres and foreign channel partners all over the world APL is the first Company in India to bring the LED UV technology in India, which is the future solution for the UV printing and coating.

APL has already installed many LEDUV systems in India. Keeping pace with the changing environment, technology and needs of the clients, the company's Research and Development unit is constantly focusing on developing tailor made solutions and upgrading the existing ones.

The Company is located in Faridabad, an Industrial town, in the out skirts of New Delhi. It has fully equipped modern factory, covering an area of 75000 square feet. The coverage of domestic and international market is effectively achieved through established network of sales & amp; services offices and channel partners all over the world.

- Over 15,000 installations all over the world.
- Technical knowhow from leading US and German companies for latest in UV Curing Technologies.
- A well equipped Computerized Lab for continuous R&D and customized product developments.
- ISO 9001:2015 Certified Company.
- CE Certified products.
- W.Q.C. International Star Awards (Gold Category) by International Selection Committee of B.I.D.
- Quality Brand Award 2010-2012 by Council of Economic Growth & amp; Research.

To keep pace with the changing environment, technology and needs of our clients, we have Research and Development unit to develop new products and to improve the quality of existing products. We spend a big chunk of our revenues on the continuous up gradation of facilities of our production and on Research and Development.

APL is proud to support "Vocal for Local" and "Make in India" as 99% of parts are made in India.

WHY CHOOSE LED UV?

- Faster press speeds
- Better substrate adhesion
- Elimination of Mercury & Ozone
- Removal of heat
- Greater assurance of cure
- Reduction of Downtime
- Print thinner stocks
- Lower energy consumption
- Very little maintenance required

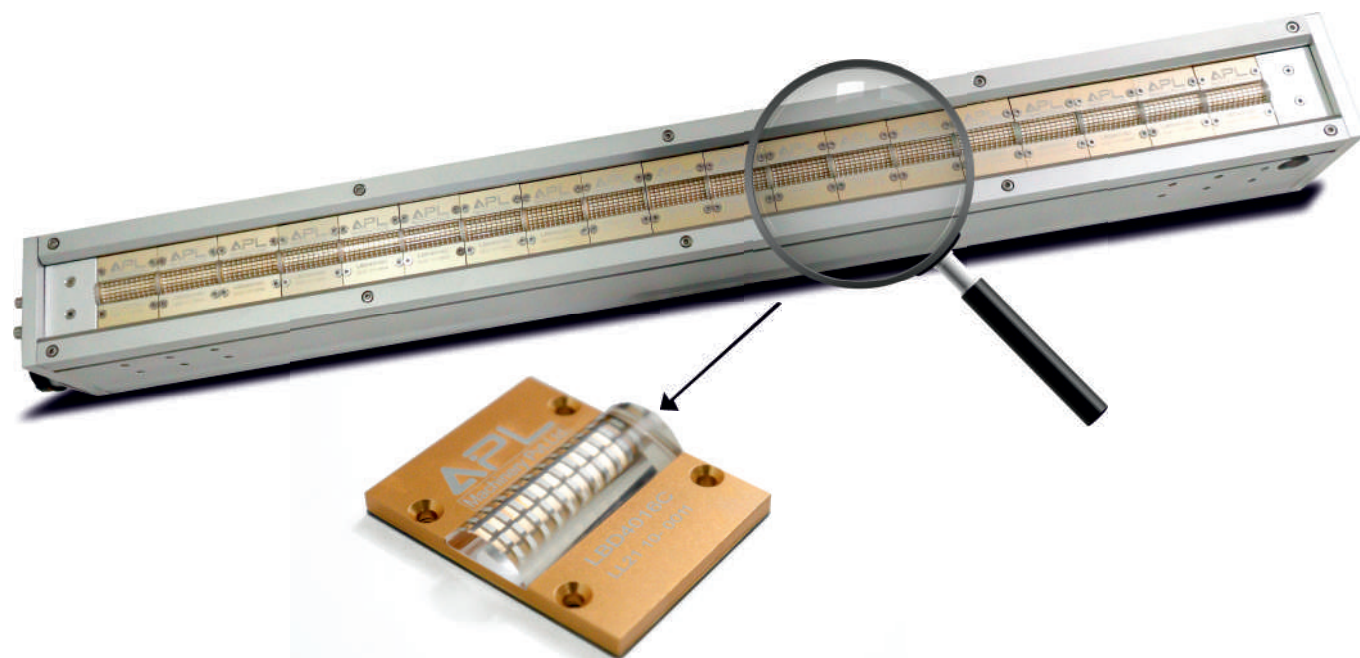
WHY CHOOSE APL LED UV?

 <p>Can cure CMYK plus drip off upto speed of 20000 sheets per hour.</p>	 <p>Experience in LED UV since 9 years and Founder of LED UV in INDIA.</p>	 <p>We have new development of using gold wire instead of copper wire.</p>
 <p>Patented LED Protection Plus to keep LED UV safe.</p>	 <p>Easy to replace LED Chips at customer end. (No Soldering)</p>	 <p>Have options 30 to 80 watts /cm2</p>
 <p>We Use Japanese or Korean Diode as our competitors use Chinese.</p>	 <p>We can Provide our system with IIOT.</p>	 <p>We have an online support Facility in our system.</p>
 <p>Can cure upto distance of 150mm</p>	 <p>We have warranty for 2 years</p>	 <p>Very compact system.</p>
 <p>In house Manufacturing.</p>	 <p>Easy integration with press.</p>	 <p>Install in one day.</p>
 <p>Highest Power LED UV in the World.</p>	 <p>Retrofitted to all presses.</p>	 <p>Because of high energy all kinds of inks are cured in our system.</p>



LED UV FOR SHEETFED OFFSET

- Top press speeds to 20,000 sph
- Instant and consistent drying to 400% Ink Coverage
- Without heat we can do any substrate like PP, thin PVC and without damaging the substrate
- No warm-up / cool down
- Up to 80% energy saving
- No mercury or ozone
- Installation in one day
- Can be retrofitted in almost every press
- ROI in 6-12 months typical
- LED UV vs UV in Packaging Job
- CMYK plus drip off with single LED UV end off press



LED UV FOR FLEXO

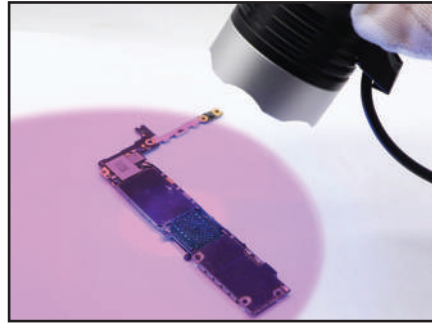
- Instant drying.
- No warm up and cool down time.
- No heat so we can print the thinnest of the substrate.
- Can run on Full Press speed.
- Higher gloss levels of inks and varnishes.
- Greater assurance for curing.
- Better surface adhesion.
- Big cost saving in Replacement of bulbs.
- No extra AC required in press.
- Say no to big Air ducts to keep lamps cool.

LED UV FOR ROTOGRAVURE

- Can Do UV coating online on Printing machine
- Can Do Registered coating
- Can do special effects like glitter, Emboss UV and many more.
- Can do UV Job at the full printing speed of the machine.
- No need for an Offline coating Machine.
- Capital Investment is Less in LED UV.
- No odour in LED UV Coating
- Higher gloss Level than conventional coating.
- Better adhesion
- Better slip value
- More consistent curing throughout life span.



LED UV APPLICATIONS IN OTHER INDUSTRIES ?



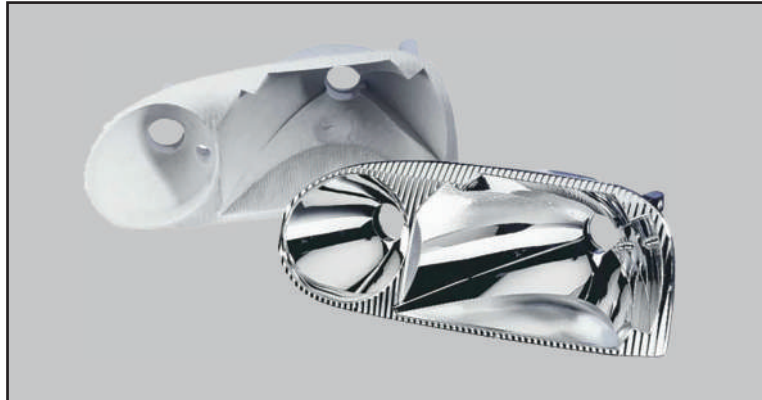
PCB LED UV Glue curing



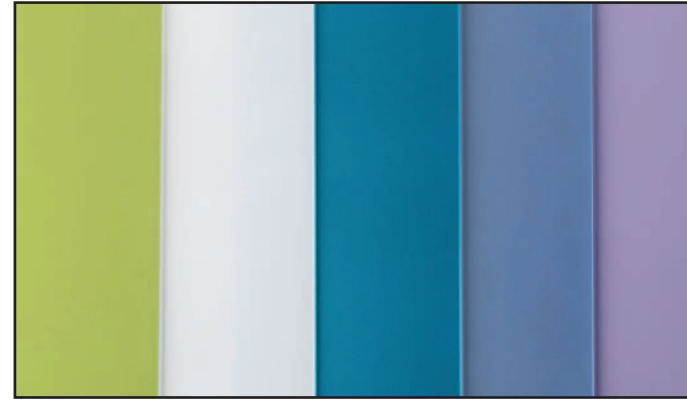
Helmet High Gloss
LED UV Top coat



Metal LED UV ink curing



Car Reflectors LED UV base coat & top coat curing



Glass LED UV paints



PVC edge band glass coating



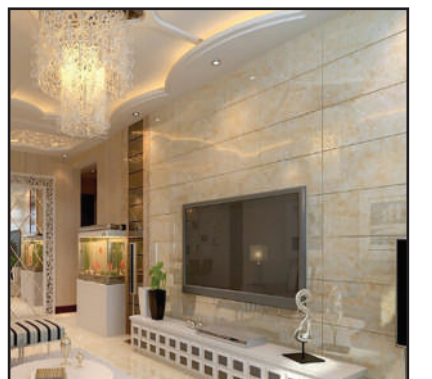
Cosmetic Caps LED UV
base coat & top coat curing



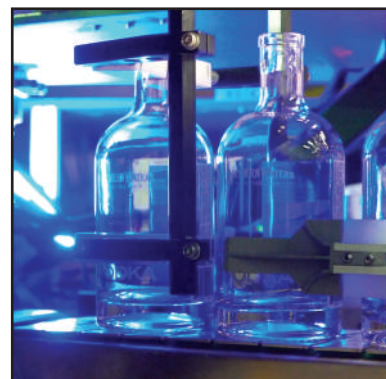
Oil Filters LED UV inks



Wood LED UV high gloss panels



Wall tiles LED UV top coat



LED UV ink curing for bottles



LED UV ink curing for syringe

WHY IS LED UV COST EFFECTIVE?

- LED reduces energy consumption by 80%, This is only in the lamp. It also helps to reduce the Ac power consumption.
- An LED-UV system does not generate any heat which saves the cost of spray powder which is approx 2 Kg in 8 hour as the maintenance increases by powder and also cleanliness in the press. The absence of spray powder keeps the press area much cleaner, thus requiring less time cleaning and maintaining the delivery and allowing more time to run profit making jobs. It also saves the space by eliminating the racking of jobs.
- There is no need to allocate room for press loads to dry, which will improve the work-flow in the production area.
- Few MR sheets are used as MR sheets are instantly cured, they can be used multiple times when using a closed-loop system reading the color bar.
- No need for aqueous coating. With LED-UV, the days of giving away coatings for free are gone for good! Coatings are used only when they are part of the job design - and paid for by the customer!
- Turn times for each job are now determined by the length of the run, allowing increased flexibility downstream and an easier time scheduling jobs.
- LED-UV inks tend to be more expensive than conventional inks, however, the cost of ink typically represents only 1% - 2% of the total cost of any print job. LED-UV inks increase the "mileage per kg" of ink especially when printing on offset stocks because LED-UV inks are cured immediately on the surface of the substrate, minimising absorption.

#Highest Power LED UV in the World. #No Soldering
#Fastest changing chip process #Reliable LED UV System
#No down time #Fastest press speeds #Always one step ahead.

