



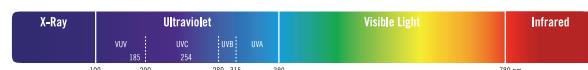
Smart UV and IR solutions from offset to digital printing

Specialty light sources for efficient curing and drying processes

Books, brochures, labels, forms, foils or packages are printed using different methods and are covered with a protective layer of varnish. However, what they all have in common is that the printing ink needs to be completely dried or cured before processing of the products can continue. Depending on the type of ink, paint or varnish, UV or IR technology or even a combination of both is used for curing and drying. This inevitably takes place with energy consumption. Today, it is well worth the effort to examine these printing processes scrupulously and find techniques which offer the best results and the greatest possible energy efficiency.

From UV to IR, Heraeus Noblelight offers the entire spectrum of specialty light sources, LEDs and even complete systems for curing and drying of ink. Chemical formulations and materials can be tested and Heraeus experts consulted to choose the optimal solutions for each process.

Heraeus has more than 40 years of experience with specialty light sources for endusers as well as for OEMs. In our own Application Competence Centers, customers' materials can be tested to find optimized and individual process solutions.



Specialty light sources exactly fitted to the process

Heraeus UV and IR solutions are precisely adjusted to the individual printing process requirements, to work as efficiently as possible. No matter which printing process is considered UV and IR light sources are used in various curing and drying processes e.g. for packaging, newspapers, labels, personalized mailings etc. Especially for challenging applications like opaque white or black printing, thick layers, varnishing or finishing they deliver optimal results.

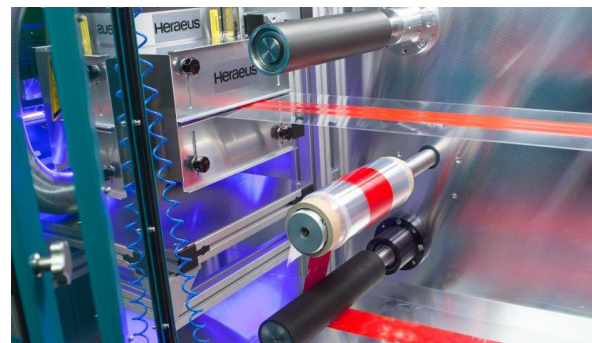
	Offset	Flexography	Gravure printing	Screen printing	Digital printing
Commercial Print	UV Infrared	Infrared		UV Infrared	UV Infrared
Packaging	UV Infrared	UV		UV Infrared	UV Infrared
Label Printing	UV Infrared	UV Infrared	UV Infrared	UV Infrared	UV Infrared
Plastic Printing	UV Infrared	UV Infrared	UV Infrared	UV Infrared	UV Infrared
Special and Security Printing	UV Infrared	UV Infrared	UV Infrared	UV Infrared	UV Infrared

UV ■ Infrared ■

Advantages of using Heraeus UV solutions

UV curing printing inks are special ink systems which are cured by UV radiation. Depending on the process step, Heraeus offers UV LED systems, microwave powered lamp systems or a combination to optimize the individual curing process. Amba® UV curing lamps, doped or undoped as well as replacement lamps and components compliment the product portfolio - for efficient printing processes and high-performance, scratch resistant surfaces.

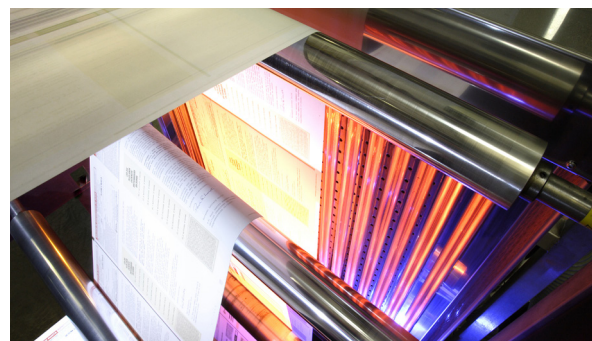
- Ideal solution: benefit from the appropriate UV technology for every printing method: LEDs, medium pressure lamps, microwave powered lamp systems
- Flexible: the wavelength can be adjusted to the application
- Global service: before, during and after the installation
- Maintenance-friendly: easy handling, long service life
- Expert advise: application professionals help to find the optimal UV curing solution, to ensure a high quality UV curing process. Test your material in our Application Competence Centers.



Advantages of using Heraeus IR heating solutions

Make use of the intelligence of infrared heat technology to dry water-based inks. In contrast to conventional thermal methods, infrared emitters transmit contact-free high amounts of energy within a short period of time. Heat is applied precisely where and for just as long as it is needed for your process. It dries the printing ink and spares both paper and machines.

- High heat transmission capacity
- Carbon infrared emitters in the medium wave region deliver heat, where water absorbs the most efficiently
- Short response times enable IR drying to be adjusted easily and to be energy efficient
- Compact infrared systems are easy to retrofit



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