

We harness the  
**power**  
of light...

... by creating high performance precision lamps and working with customers to evolve bespoke, innovative photonic solutions for an ever-expanding variety of scientific, industrial and commercial applications.

Both our flash lamps and systems development skills increase in sophistication as the diversity of applications continues to evolve. Our current breakthrough areas include Aesthetic light sources, Solar Simulation and Rapid Thermal Processing for heating and annealing applications.

Our Photonics Application Centre in Cambridge (PAC) is dedicated to photonic technology innovation. Using PAC expertise, we work closely with customers to develop industry defining flash lamp solutions. This results in both swift access to new lamp design and highly responsive feedback to assist enhanced photonic solutions.

Lamp lengths:

**20-4000**  
mms

**40**  
years'  
experience

**2500**  
lamp specifications

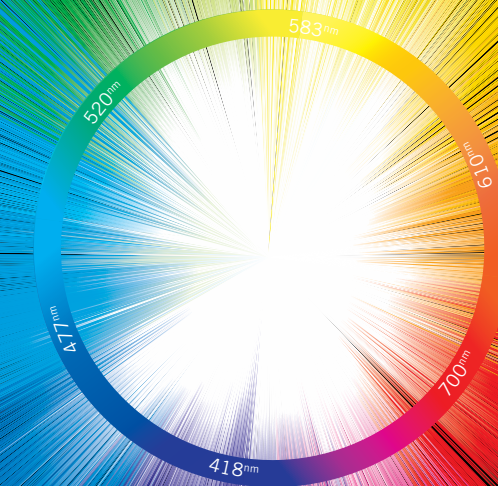
LIGHT CHANGES EVERYTHING

If you are working on a project and wondering how light might be transformative, please call us on +44 (0) 1223 423 324 or at [hnl-laserlamps@heraeus.com](mailto:hnl-laserlamps@heraeus.com)

Heraeus Noblelight Limited  
Cambridge Science Park  
Milton Road, Cambridge  
CB4 0GQ

[heraeus-noblelight.com](http://heraeus-noblelight.com)

**Heraeus**



Is  
**light**  
your solution?

RESEARCH

DISCOVER

CREATE

DELIVER



# our pedigree

The power behind Heraeus stems from ‘innovation driven by customer collaboration’. Pioneers in laser lamp manufacture and electrode technology since 1978, our automated arc and flash lamp manufacturing is the most advanced in the industry. Our ground-breaking automation assures lamp reliability, quality and consistency.


For us, customer satisfaction is everything.

### We pride ourselves on delivering ‘best in class’ service

Priority service	10 day lead time for critical customer situations
98% OTD	shortest production lead times in the industry
Performance guarantee	<0.5% return rate
Technical support	a team of industry leading experts to support your needs
Safety stock	can be implemented for critical products, reducing your risk of production stress, delay or stop
Bespoke lamp design	prototype design: 5 days samples: 21 days from design approval

### Our management team

Back row l-r	
Holly Dacosta	HR
Abby Littlechild	Sales
Ben Jones	Operations
Front row l-r	
Stephen Atwood	Sales
Debbie Playle	Managing Director
Jeremy Woffendin	Innovation



THE QUEEN'S AWARDS  
FOR ENTERPRISE  
INNOVATION  
2015

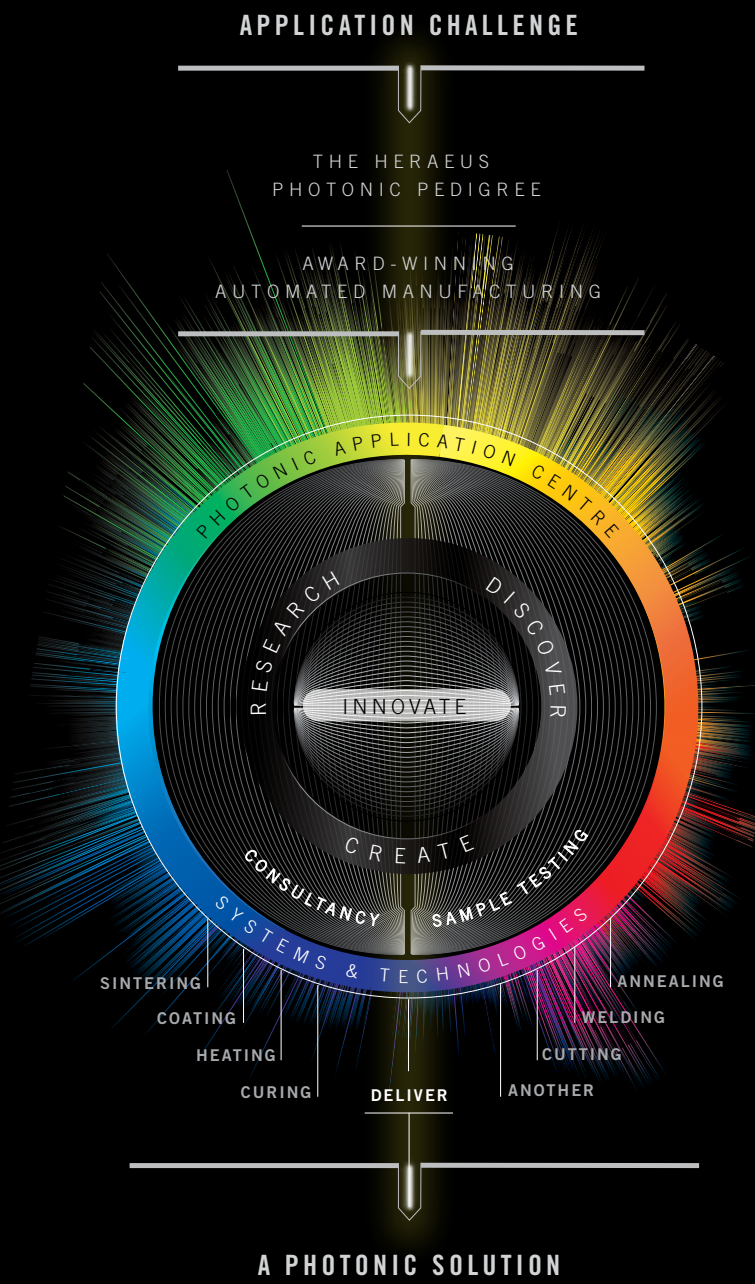
“Quality provision and outstanding customer service are integral components of the Heraeus philosophy.”

**Debbie Playle**  
Heraeus Noblelight



# is light your solution?

Our lamp and product development expertise is applied through the Photonics Application Centre to create photonic solutions for a growing number of industrial processes. Share your application challenge with our specialist team to discover how our flash lamps and systems can provide you with innovative solutions.



# flash lamps and systems



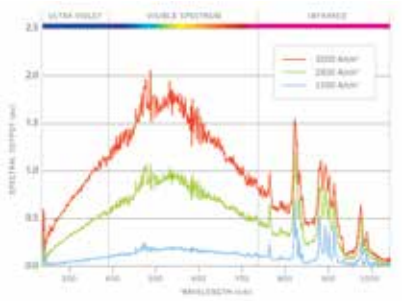
### Flash lamp features

Flash lamps can be filled with Xenon, Krypton or a combination depending on the application, providing a versatile broadband spectrum with useable wavelengths from 160 – 1000nm (see graph). Certain wavelengths can be filtered or enhanced using different quartz envelope materials.

We design flash lamps to achieve a limitless combination of operating parameters; by adjusting pulse duration, repetition rate and current density, output can be fine-tuned to optimise the application or process on small and large scale areas. Our lamp designs utilise Heraeus’ innovative technology which harnesses quartz envelope, gas fill, and electrode designs, resulting in lamps with long lifetimes. Flash lamps do not contain harmful additives, offering an eco-friendly solution.

### Intelligent flash systems

With applications demands shifting and faster processing capabilities driving change, we are delighted to partner with client companies in developing total solutions comprising flash lamps, lamp housing and power supply units. Using our PAC expertise, we model a host of flash lamp scenarios, performing and recording systematic trials and development work in-house. The results are creating innovations such as our intelligent rapid thermal processing technology, humm3®.



### Many applications benefit from our lamps:

Aesthetic	Laser	Solar	UV Disinfection	Heating
IPL hair removal skin rejuvenation surgery dentistry tattoo removal	welding & cutting drilling marking & engraving diamond processing science laser range finding	PV cell and module testing materials weathering	packaging food	rapid thermal processing composite heating sintering of inks