

# Heraeus

## Heraeus Noblelight



The smart source for quality Xenon  
and Krypton lamps

”Heraeus Noblelight  
has always been  
known for quality  
lamps. Today,  
as the importance  
of support grows  
for lamp users, an  
excellent standard in  
customer service has  
become part of our  
quality philosophy.“



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# Arc and Flash lamps in a new light

Noblelight was founded by John Littlechild in 1978 based on the premise that innovation can only be driven by close collaboration with the customer. We pioneered laser lamp manufacturing and electrode technology including the HI-CHARGE Cathode®.

Since 1986, Noblelight has been part of the Heraeus group with access to advanced lamp manufacturing technology and quartz glass expertise.

Heraeus Noblelight Ltd. not only has the most advanced automated arc and flash lamp manufacturing line, but also keeps exploring new ways to improve lamp performance with research institutes and, most importantly, our customers. We invest in enlarging our production capacity as more and more customers turn to us for high quality products and professional service. Applications of our products include not just laser technology, but also areas like Aesthetics, Solar Simulation and Rapid Thermal Processing and Annealing of silicon wafers.

Heraeus Noblelight sees great value in developing a close personal service to system manufacturers and users. Through our experienced team of Engineers, Sales and Customer Service experts, we can assist you from consultancy and design through to on-time delivery from our in-house manufacturing in Cambridge.

## Our service commitment for new lamp designs

- Design consultancy with our product experts.
- Customised prototype design and quotation completed within 5 days.
- Sample lamps delivered in 3 weeks after design approval.

# Quality is our strong point



Heraeus Noblelight continually invests in the area of R&D, allowing us to push the limits of lamp performance. The results are tangible improvements in the areas of electrode and quartz durability. Case studies have shown significant results, and in certain cases through our development cycle we have increased lamp lifetimes up to 5 times.

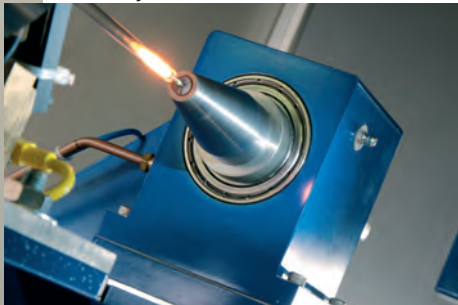
Through Automation and skilled manufacturing, we deliver:

- Lamp to lamp consistency
- Reliability
- Stable output
- Long lifetime
- Increased production capacity
- Short lead times

Every lamp is rigorously tested, and inspected to our QA standards before leaving the factory.



Each lamp is tested before leaving the factory



Automated lamp assembly

## CW lamps

Our KFC (Krypton Fluid Cooled) range of continuous wave DC arc lamps are primarily used in marking and welding lasers. Heraeus Noblelight offers CW lamps from 1kW to 20 kW, either made to your specification or as direct replacement lamps.

Through continuous product development and utilising our automated processes, Heraeus Noblelight's KFC range is widely recognised as the market leader.

## Pulse lamps

Our wide range of pulsed lamps are used in many different laser and non-laser applications, due to the broadband spectral output, from UV to IR. The high optical power per pulse requires the best materials and designs to achieve long lifetimes. Heraeus is able to meet these demands through an innovative technology that optimises the quartz glass envelope, gas fill and electrode design. Heraeus Noblelight manufactures customised pulse lamps from 30W to 20kW, as well as standard replacement lamps.

Our unique technologies deliver spectral homogeneity, ideal for Solar simulation applications.

For Aesthetic applications such as hair removal and skin rejuvenation, specially designed pulsed lamps are available.



# Applications



Photo courtesy Triumpf



panthermedia.net/Daniel\_Schoenen



Photo courtesy Rojin



Photo courtesy Energist

## Laser

- Industrial  
Automotive Welding & Cutting  
General Cutting & Welding  
Drilling  
Marking/Engraving  
Resistor Trimming  
Diamond Processing
- Medical  
Ophthalmic  
General Surgical  
Dental
- Cosmetic  
Hair & Tattoo Removal  
Skin Rejuvenation
- Military  
Laser Range Finders

## Non Laser

- Hair removal/skin rejuvenation
- Rapid Thermal Processing
- Solar Simulation
  - PV cell testing
  - Weathering
- Water / Food sterilisation
- Photographic
- Ink Curing / Drying
- Dental Epoxy Curing

For more information, go to [www.heraeus-noblelight.com](http://www.heraeus-noblelight.com) or contact [hnl-laserlamps@heraeus.com](mailto:hnl-laserlamps@heraeus.com)

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