

Heraeus

**Heraeus Noblelight**



**The smart source for quality laser power**  
Pulse and CW lamps

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



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# Laser excitation lamps in a new light

Noblelight was founded by John Littlechild in 1976 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.

Today, Heraeus Noblelight Ltd. not only has the most advanced automated laser 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 cosmetics and Rapid Thermal Processing of silicon wafers.

We provide close personal service to laser system manufacturers and users. Our experienced team of engineers and customer service experts will 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

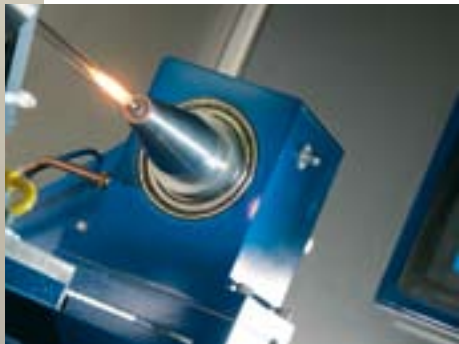
- Customised prototype design and quotation completed in 10 days.
- 10 sample lamps delivered within 6 weeks of design approval.

# Quality is our strong point



Heraeus Noblelight invests constantly in R&D to push the limits of lamp performance. The results are tangible improvements in the areas of electrode and quartz durability which give customers longer lamp lifetimes and higher stability.

The world-leading automated manufacturing line in Cambridge, UK is another contribution to quality. It focuses on reproducible lamp quality and increases production capacity for shorter delivery times. Each lamp that leaves our factory is tested to ensure quality.



Automated lamp assembly

Each lamp is tested before leaving the factory

## CW lamps

CW (continuous wave) lamps are gas discharge lamps that are mainly used in marking lasers and lasers for welding and cutting. Heraeus Noblelight offers CW lamps from 1 kW to 20 kW, either made to customer specification or as standard replacement lamps.

Heraeus Noblelight CW lamps are widely recognised as the market leader. A new cathode technology further improves the lamp performance.

## Pulse lamps

Used in many applications, by far the most demanding of these is the optical pumping of lasers. The high optical power per pulse requires the best materials and designs to achieve long lifetimes. Heraeus Noblelight manufactures customised pulse lamps from 30 W to 20 kW as well as standard replacement lamps.

With an innovative technology that optimises the quartz glass envelope, gas fill and electrode design, Heraeus Noblelight pulse lamps combine high pulse energy and very long lifetime.

For cosmetic applications like hair removal and skin rejuvenation, specially designed pulse lamps are available.



# Applications



## 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
- Water/Food Sterilisation
- Photographic
- Ink Curing/Drying
- Sun Simulation
- Dental Epoxy Curing

**For more information, go to**  
**[www.heraeus-noblelight.com](http://www.heraeus-noblelight.com)**  
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