

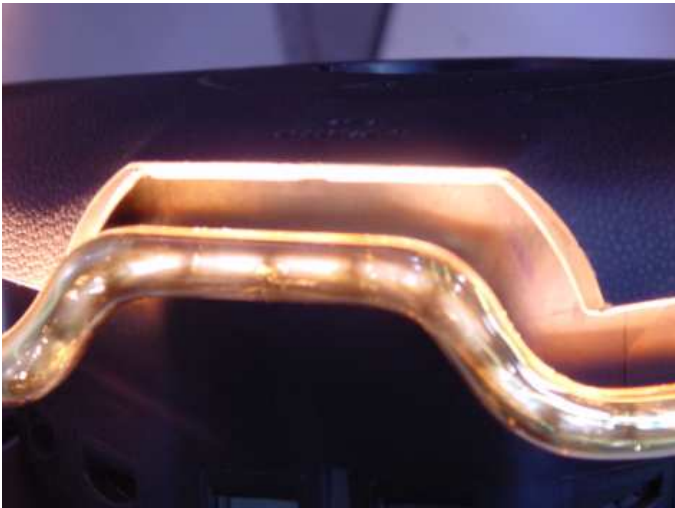


Infrared heating improves quality while deburring

Plastic handles, housing parts, covers, suction hoses and lids are conventionally produced by injection moulding or by pressing. It is not always possible to prevent the creation of sharp-edged burrs, especially at the tool splitting surfaces. The removal of these burrs before further processing is an important requirement, especially with components of complex geometry. Infrared radiation heats the surfaces of plastic components in a contact-free manner and in a matter of seconds, so that the burrs are simply melted away.

Moreover, quartz glass infrared emitters can be shaped to follow the contour of the edges or burrs and consequently exactly melt away only the burr without damaging the actual work piece. As a result, the technology is far superior to many conventional methods, as manual deburring, using special knives or by the application of gas flames, does not produce consistent results and is time-intensive.

Infrared modules are compact, can be easily integrated in production lines and can be retro-fitted. Consequently, infrared heating allows in-line deburring and plastic components can be passed to the next processing stage immediately.



Features

- Contact free heating by infrared emitters
- Uniform and reliable heating
- Reduction of reject rates

Technical Data

- Short wave emitters
- Quartz glass heaters can be formed exactly according product edges
- Thermoplasts can be melted within seconds

Germany
Heraeus Noblelight GmbH
Infrared Process Technology
Reinhard-Heraeus-Ring 7
63801 Kleinostheim
Phone +49 6181 35-8545
Fax +49 6181 35 16-8410
hng-infrared@heraeus.com
www.heraeus-noblelight.com/infrared

USA
Heraeus Noblelight America LLC
1520C Broadmoor Blvd.
Buford, GA 30518
Phone +1 678 835-5764
Fax: +1 678 835-5765
info.hna.ip@heraeus.com
www.heraeus-thermal-solutions.com

Great Britain
Heraeus Noblelight Ltd.
Clayhill Industrial Estate
Neston, Cheshire
CH64 3UZ
Phone +44 151 353-2710
Fax +44 151 353-2719
ian.bartley@heraeus.com
www.heraeus-infraredsolutions.co.uk

China
Heraeus Noblelight (Shenyang) LTD
2F, 5th Building 5
No. 406, Guilin Rd, Xuhui District
200233 Shanghai
Phone +8621 3357-5555
Fax +8621 3357-5333
info.hns@heraeus.com
www.heraeus-noblelight.cn