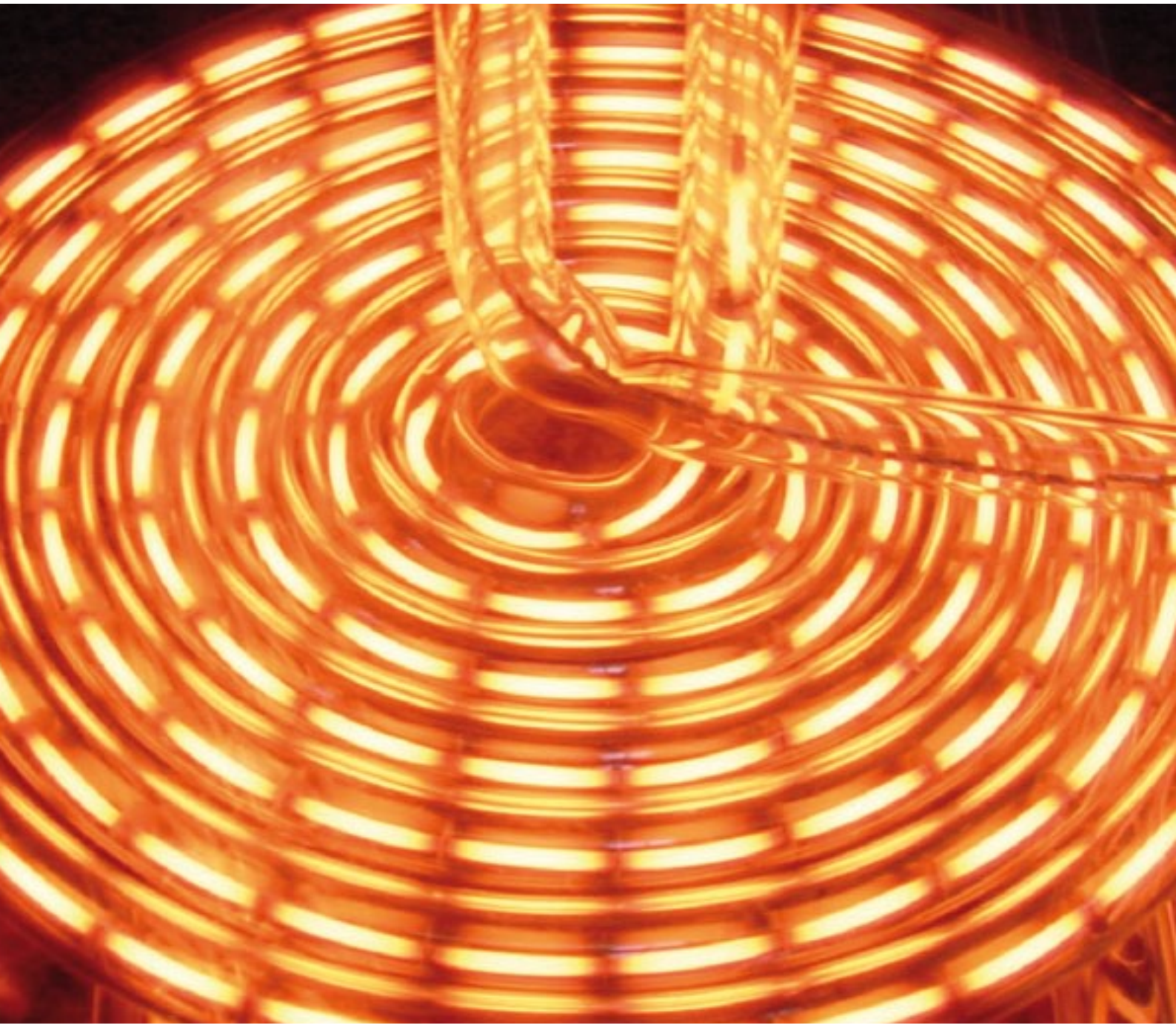
Special Emitters

Heat precisely where it's needed



Edges, corners and contours are followed exactly and heated in a focused manner

Infrared emitters need not always be long and straight. We are guided totally by the product and process

When riveting two components together, an Omega emitter only has to heat the rivet and not the whole component

Heraeus infrared emitters are precisely matched to the relevant production process. They heat large surfaces as well as small edges. The potential for flexible design also allows emitters to be produced to match complex geometry work pieces and because infrared emitters can be switched on and off in seconds, they allow significant savings in both energy and operating costs. Plastic components are welded, riveted or de-burred efficiently within seconds because heat can be rapidly and precisely applied to the right place.

All these emitters can be designed in terms of shape, size and spectrum to suit the relevant process. Heat is then generated precisely where it is required. Energy losses to the environment are incredibly small and production process times can be reduced or more parts can be produced in the same time.

Emitters for vacuum processes
Heating for production processes under vacuum conditions is a real industrial need, which conventional heating methods, such as warm air ovens, cannot meet. Infrared emitters transfer heat without the need for an intermediate medium. Infrared emitters with quartz reflectors working in vacuum focus the heat precisely on the product. They can even be used when acids or alkalis are present and under other extreme process conditions.

Contoured emitters
Individually shaped emitters can follow work piece corners and edges to allow any required bending process or for the local activation of adhesives.

Small surface emitters
Short wave emitters heat complex geometries so that two surfaces can be joined without adhesive.

Omega emitters
Circular short wave emitters for hot staking. With heat up and cooling times in terms of seconds, very short process times can be realised.