

### The client

Our client is a global electronic device manufacturer for the consumer market. A number of these devices have heating elements that are designed to operate at high temperatures of around 300°C. However, it could take a long time for their devices to heat up from room temperature to the required working temperature. The client wishes to minimise this and is therefore seeking materials and/or technologies that they could incorporate into their devices for reducing the ramp rate of their heating component.

### The search

The client is actively searching for potential **technology solutions that could facilitate faster heat ramp-up** and this could include (but are not limited to):

- Accelerate heating via infrared radiation
- Coatings or films to improve thermal efficiency of induction heaters (e.g. high emissivity coatings)
- Materials that enable fast heating rate (e.g. quartz, ceramics, graphene, etc.)

Potential solutions should have the following technical characteristics: -

- Durable (e.g. resistance to abrasion, thermal shock with operating temperatures up to 300°C) and good adhesion strength
- Applicability to mild steel surfaces
- Enable heating element to reach 300°C in less than 10 seconds
- Commercially available or near commercialisation with capability to supply samples as the client would like to proceed with product testing as soon as possible

**Technology solutions that are capable of promoting quicker radiation heat transfer would be preferable to alternative heating technologies.**

### What the client can offer

Our client is actively searching for partners to support their product development efforts. They have an established customer base and global operations that provide routes to market for both new and established companies. The client already offers a wide range of products to worldwide markets and therefore this represents an excellent business opportunity for existing and new technology partners.

Please provide details of any potential technology partner or service provider to Diane Kolonko via [diane@strategicallies.co.uk](mailto:diane@strategicallies.co.uk)