

Case study: **Partial installation for  
preparation of an overprint**

**Hot air makes for better connections**

A manufacturer of electric toothbrushes had an idea to print colourful motifs on the brush heads. To this end, the head had to be heated to a specified temperature to enable a wafer-thin film to be applied in the next step. Preheating the head provides a better bond between the base medium and the film.

### The installation concept:

An installation with two heat ducts, each equipped with a combined air heater-blower, was designed. To achieve this, two 9 kW air heaters of the LE-R series and two medium pressure blowers were installed. The two belt sections for transporting the products are approx. 2 m long. The installation is PLC-controlled. The heated air is extracted and fed back into the process, which significantly reduces the amount of energy required.



Case study:

## Partial installation for preparation of an overprint

Hot air makes for better connections

### Technical data of the installation

#### Air heaters

2 x HAPRO LE-R

Power output: 9 kW each

#### Controller

PLC controller



**HAPRO Industriegeräte GmbH**  
Schorberger Straße 40  
42699 Solingen  
Germany

Phone +49 212 - 31 73 74  
Fax +49 212 - 31 73 15  
[info@hapro.de](mailto:info@hapro.de)  
[www.hapro.de](http://www.hapro.de)

