

# Case study: Shrink-fitting unit for cables and heater cables



## Fast, accurate shrinking of heater cables for underfloor heating systems

A customer manufactures a wide range of different underfloor heating systems. The cable ends of the heater mats for electric underfloor heating systems must be shrunk-fitted and crimped for this purpose.

A recirculating system was developed in which the heater mats are fed to different positions on workpiece carriers. The products are manually fitted with PTFE heat shrink sleeves and shrunk-fitted in a specially developed heat chamber.

To this end, an LE-R air heater with nozzle unit and a medium-pressure blower were installed in the seven-metrelong installation. The shrinking process takes place at a temperature of approx. 400 °C. Finally, the cable ends are then crimped in a machine. The entire process is controlled by a PLC.

#### HAPRO Industriegeräte GmbH

Schorberger Straße 40 42699 Solingen Germany Tel.: +49 212 - 31 73 74 Fax: +49 212 - 31 73 15 info@hapro.de www.hapro.de





On the far left of the picture you can see the crimping unit, and behind it the shrink tunnel. The switch cabinet is on the right and the controls can be seen in the background.

## HAPRO Industriegeräte GmbH Schorberger Straße 40

Schorberger Straße 40 42699 Solingen Germany Tel.: +49 212 - 31 73 74 Fax: +49 212 - 31 73 15 info@hapro.de www.hapro.de

HAPRO Case study: Shrink-fitting unit for cables and heater cables



HAPRO Industriegeräte GmbH Schorberger Straße 40 42699 Solingen Germany

Tel.: +49 212 - 31 73 74 Fax: +49 212 - 31 73 15 info@hapro.de www.hapro.de

3

## Case study:

# Shrink-fitting unit for cables and heater cables

Fast, accurate shrinking of heater cables for underfloor heating systems

## Technical data of the installation

Air heater Air heater LE-R Blower HAPROVENT M TYP S

### Controller

Control cabinet PLC-controlled



### HAPRO Industriegeräte GmbH Schorberger Straße 40

42699 Solingen Germany Tel.: +49 212 - 31 73 74 Fax: +49 212 - 31 73 15 info@hapro.de www.hapro.de