Cylindrical Band Heaters

Efficient Heating in Injection Molding and Extrusion

Homogeneous Heating in a Compact Space up to 600 °C Required?

Cylindrical micanite-, ceramic- and aluminium heaters from Freek are the solution for your application.

Specifically designed for demanding applications in plastics processing, our band heaters impress with uniform heat distribution and maximum efficiency. With decades of experience and continuous improvements, our band heaters are compact and robustly built. High-quality materials such as stainless steel ensure durability and reliability, even under extreme conditions.

Our band heaters are easy to install and low-maintenance, saving you time and costs. Trust our experience and quality to optimize your processes.

Let us advise you and find suitable solutions for your individual requirements.

Your Benefits at a Glance

- Excellent efficiency due to high thermal conductivity
- Max. temperature up to 400°C (stainless steel) or 600°C (ceramic)
- Max. power output 6.5 W/cm² or 12 W/cm²
- Resistance to mechanical stress
- Customised solutions for your requirements
- High plastic resistance (e.g., against PVC)
- Integration of PT 100 and thermocouples type J / K possible
- Available with UL / CSA approval
- Optional: plastic-sealed design for easy cleaning

Typical Applications

- Injection moulding machines
- Extruders
- Runner Bushings
- 3D-printer
- Compounding & Recycling
- Packaging industry
- Pipe trace heating

Application Example: Heating of a Drive Shaft for Press Fit

Requirement:

- Expansion of a fit for a drive shaft (Ø 800 mm) by heating to approx. 200°C
- Previously: Heating in a gas furnance for 150 minutes

Our Solution:

- Immediate Heat Input by two-part ceramic heating band with 24 kW (4x 6 kW).
- Time saving: 75 minutes
- Energy saving through direct heating

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I am happy to assist you with your individual project!

Subject to technical changes.