

Ceramic Cartridge Heaters



Application examples

- Presses
- Heating plates
- Tool heating

DBK's knowledge of thermal management gives us the experience to guide and support you with your technical challenges - we can manage the complete project from concept to full production release.

Ceramic cartridge heaters consist of a ceramic multi-hole tube into which a heating coil made of wound wire is threaded. The top and bottom of the cartridge heater can be designed with increased thickness to provide more power. Ceramic cartridges are often used in plant and mechanical engineering applications such as tools or presses. They are suitable for all applications that require precise fitting, e.g. drill holes. It is important to ensure electrical insulation of the cartridge base, e.g. using Micanite discs. For installation, we recommend a sufficiently large drill hole diameter (cartridge diameter + 2 mm), as well as a clean, oil- and grease-free drill hole to ensure smooth and long-lasting operation.

Features

- Defined heat output due to resistance wire technology
- Power according to customer specification
- Operating voltage up to 500 V
- Operating temperature up to 400 °C
- Surface load up to 4 W/cm²
- Sections with increased heating power possible
- Tube diameters: 12; 15; 17; 20; 23; 28,5 mm
- Head diameters: 12,5; 15,2; 17,2; 21; 28,5 mm
- Electrical connection (one-sided): fiber glass sheathed nickel wire (maximum temperature up to 250 °C), blank nickel wire, bead-insulated nickel wire, nickel wire with fiber glass tube insulation

