



Cartridge Heaters



Cartridge heaters are reasonably priced, robust and easy to install. As a rule they consist of a cylindrical stainless steel tube and thus provide a high corrosion prevention. There is a heating wire inside which is wound onto a ceramic core. The number of coils varies depending on the power. In order to avoid a short-circuit, the cartridge heater is filled with magnesium oxide and compressed afterwards. Highly compacted they reach a surface watt density of up to 50 W/cm² and withstand highest stress.

In the plastics industry cartridge heaters are used in hot runners in order to temper thermoplasts during injection moulding processes. Other areas of applications for process heat are e. g. diecasting or continuous casting in which zinc or aluminium are processed. Further applications are to be found in mechanical as well as medical and laboratory engineering.

Apart from our broad standard range we also develop and manufacture cartridge heaters according to your special demands.

Occasionally also these terms are used for cartridge heaters: heating cartridge, insertion heaters, spiral cartridge heaters.

High-Density Cartridge Heaters

High density cartridge heaters distinguish themselves by their high compression and therefore especially efficient heat emission. That's why we produce them with a ground surface for a H7 fit... [\[read more\]](#)

Options for Cartridge Heaters

Following **options** (if required) are to be specified in inquiry and order: Thermosensors, Connection, Termination, Protection sleeve, Differential power, ... [\[read more\]](#)

Medium-Density Cartridge Heaters (Spiral Cartridge Heaters)

Medium-density cartridge heaters produce their energy with a heating coil which is lead through hole ceramics. They are specially suitable for applications where no high surface watt density is needed (max. 15 W/cm² » see formula) or very long cartridge heaters are required... [\[read more\]](#)

Low Voltage Cartridge Heaters

Low voltage cartridge heaters are unipolar elements in which the heating coil (NiCr 80/20) lies embedded in high compacted MgO co-axial to the sheath. On one side it is connected with the lead, on the other side with the bottom disc (earthing)... [\[read more\]](#)

Square Cartridge Heaters

Square cartridge heaters are used where much power has to be installed near the surface of a tool, e.g. in cutting knives, sealing stations or hot plates. The cartridge heaters can easily be pressed into a rectangular groove. Apart from the advantageous heat transfer over 3/4 of the sheath, it is not necessary to cement or cast in the heater which is imperative for round cartridge heaters. Unlike tubular heaters which are also available in square sections (see chapter [Flexible Tubular Heaters](#)), the square cartridge heaters have the termination on one side and can be loaded with 16W/cm² (2.5W/in²) due to their special inside construction... [\[read more\]](#)

Service (User Manual)

Here you can see the **user manual** for our cartridge heaters... [\[read more\]](#)

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