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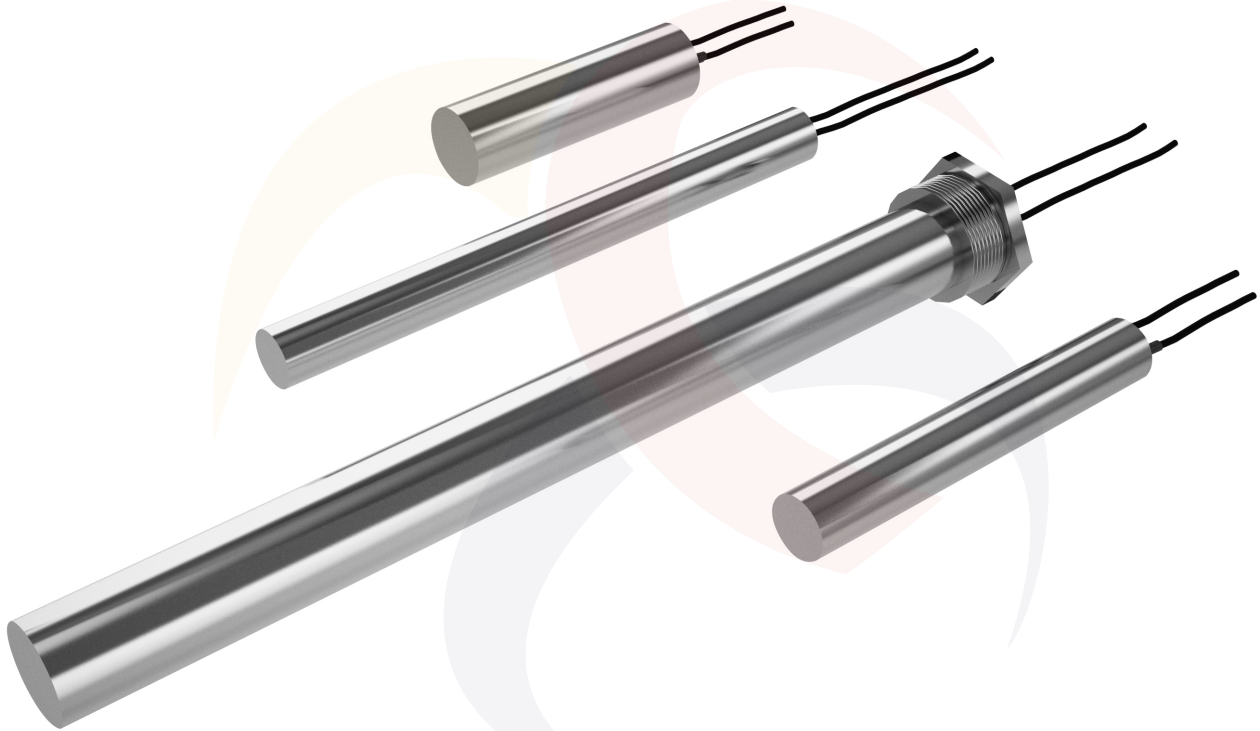
# DESIGN & MANUFACTURE ELECTRIC HEATING PRODUCTS

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**MAGMA TECHNOLOGIES** established in 2003 manufactures electric heating products. With over several years of experience, commitment and exclusive cutting edge technology, MAGMA offers most versatile and quality products and services in INDIA and Abroad as well. Magma aims to achieve control over all electric heating problems or projects that proves difficult to the buyer in all aspects whether technical or commercial area.

Magma designs and manufactures commercial and industrial electric heating and control systems that set the industry for excellence. Our main focus is to build custom made electric heating elements for customers from domestic specialists to industrial manufacturers who need a new heating solution or who can't find a replacement for their machine / appliance. We deliver satisfaction by giving total electric heating solution package from start to finish in any project.

Magma is fully equipped for all challenges whether internally or externally managed situation. Our quality checks are done in house. We can undergo any certification (PRODUCT OR COMPANY) process of different - different countries if the deal so demands.



# **CARTRIDGE HEATERS**

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MAGMA cartridge heaters are suitable, appropriate devices for applying concentrated heat to solid metal components. Cartridge heater is somewhat similar to tubular heaters structurally but with higher watt densities, usually custom manufactured to size, sheath, leads, terminals, wattage and voltage as per application or requirement. Cartridge heaters are used in restricted working areas where localized heating is required for close thermal control. MAGMA manufactures wide range of cartridge heaters for different numerous applications like heating liquids (Water, Oil and Glues), Gases such as Air and Solids such as Metal Dies.

## **MAGMA manufactures 2 types of Cartridge heaters:**

### **HIGH WATT DENSITY**

Swaged or High Watt Density Cartridge Heaters composed of resistance wire (NiCr) spirally wound on MgO core as per watt density decided. It is inserted in metallic tube selected as per requirement and space filled with high purity MgO powder. Then it is swaged to compact the loosely filled powder inside for achieving high dielectric strength up to the desired size, diameter and wattage is achieved. The heat generated by resistance wire is quickly dissipated or transferred to the outer sheath. It is machined to precise tolerances and straightness.

Swaged or High Watt Density Cartridge Heaters are fitted into accurately reamed, parallel sided holes for useful life and fantastic performance. It can operate at higher temperature and vibration applications.

### **STANDARD or LOW WATT DENSITY**

Low Watt Density Cartridge Heaters comprises of helical coil (NiCr resistance wire) passed from refractory core and inserted in metallic tube which is pre-decided by size, diameter and sheath. The remaining space in the tube is MgO powder filled but not compacted by machine. The end cap is then inserted on the bottom of the heater and insulated leads are installed.