

GCheat®

The highest degree.



加热圈上的合金套

GC-jacket clamping jacket for GC-coil coil heaters



GC-jacket

GC-coil线圈式加热器的GC-jacket夹紧套

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最先进的技术

最先进的夹紧结构设计用于确保线圈式加热器保持与热流道喷嘴牢固夹紧。然而，大多数传统的夹紧机构很快达到它们的极限：在极高温下材料失去其稳定性并膨胀，造成线圈式加热器不可控地从喷嘴脱开。这样在加热元件和喷嘴间产生气穴，使加热器不可能保持温度均匀并会迅速导致因过热造成线圈式加热器的彻底失效。另外，螺丝连接、张紧抱箍或全铸模的加热元件意味着许多这些夹紧结构也需要许多空间，它们不能应用在洞隙极小的标准热流道模具中。

GC-jacket持久地抓住并夹紧，它只是一根开槽的金属管，在温度可达550°C的条件下将GC-coil线圈式加热器牢固夹紧在圆柱形热流道喷嘴上。GC-jacket的材料特性，加上其薄壁设计，简单有效地解决传统夹紧结构的问题。

State of the art

State-of-the-art clamping mechanisms are designed to ensure that coil heaters remain firmly clamped to hot runner nozzles. However, the majority reach their limits pretty quickly: the material loses its stability under extreme temperatures and expands, causing the coil heater to uncontrollably detach itself from the nozzle. This creates pockets of air between the heating element and the nozzle, which makes it impossible to keep the temperature even and can very quickly lead to the complete failure of the coil heater due to overheating. In addition, screw connections, tension clamps or the complete moulding of the heating element mean that many of these clamping mechanisms also require a great deal of space, which is not available in standard hot runner moulds with little cavity spacing.

The GC-jacket permanently holds and clamps and is basically a slotted metal tube that firmly clamps the GC-coil coil heater onto the cylindrical hot runner nozzle at temperatures of up to 550°C. The material properties of the GC-jacket, together with its thin-walled design, easily and effectively solve conventional clamping mechanism problems.

GC-COIL线圈式加热器的夹紧套和GC-JACKET工具 CLAMPING JACKET FOR GC-COIL COIL HEATERS AND GC-JACKET-TOOL

- GC-jacket本身的自夹紧特性意味着加热元件被牢固压紧在喷嘴。它的夹紧距离使它适应加热元件的直径公差。一旦夹紧，GC-jacket就能防震，也不需要日后在上紧。

The self-clamping nature of the GC-jacket alone means that the heating element is firmly pressed onto the nozzle. Its clamping span enables it to adapt to the diameter tolerances of the heating element. Once clamped, the GC-jacket guarantees vibration-proof and shockproof pressure, making any re-clamping unnecessary.

- 材料蠕变破裂强度极好，即使在极高温下（>10000小时，在550°C下）也是如此，这确保了GC-coil线圈式加热器跟在喷嘴上的压力相当长时间稳定不变。

The extremely high creep rupture strength of the material, also under extreme temperatures (>10000 h at 550°C), guarantees the continuously firm pressure of the GC-coil coil heater on the nozzle for a considerable length of time.

- 此持久性压力确保加热元件和喷嘴的热耦合恒定。这样就能用统一的温度控制实现最大的热传递。

The permanent pressure ensures a constant thermal coupling of the heating element and the nozzle. This enables maximum heat transfer with uniform temperature control.

- 与纯铜或黄铜埋入件相比，GC-jacket又薄又轻，因此，对于精确的温度控制，其热反应非常快。另外，因为在喷嘴加热系统中不会发生热交换，在喷嘴上就可实现更系统的功率和温度分配。

Due to the low mass of the GC-jacket compared to copper or brass embeddings, thermal reactions are very fast for precise temperature control. Furthermore, since no heat exchange can occur in the nozzle heating system, a much more systematic power and temperature distribution on the nozzle is possible.

- 由于GC-jacket工具的存在，安装GC-jacket快速而简单。
Thanks to the GC-jacket tool, the GC-jacket is quickly and easily fitted.

- GC-jacket的薄壁设计（壁厚0.5-3.2 mm，取决于喷嘴直径和喷嘴长度），使它可安装在紧密的洞隙中，甚至在紧凑的模件中。

The thin-walled design of the GC-jacket (wall thickness 0.5–3.2 mm, depending on nozzle diameter and length) permits tight cavity spacing even with compact moulds.

- 由于GC-jacket的全长上有槽口结构，可安装独立的表面热电偶，甚至不会增加外径。

Due to the structural slot which runs across the entire length of the GC-jacket, the attachment of a separate surface thermocouple is possible, without increasing the outer diameter.

- 通过反射热辐射极大地降低加热元件的热耗散损失。

The thermal dissipation of the heating element is considerably reduced by reflecting the heat radiation.

- GC-jacket可重复使用。

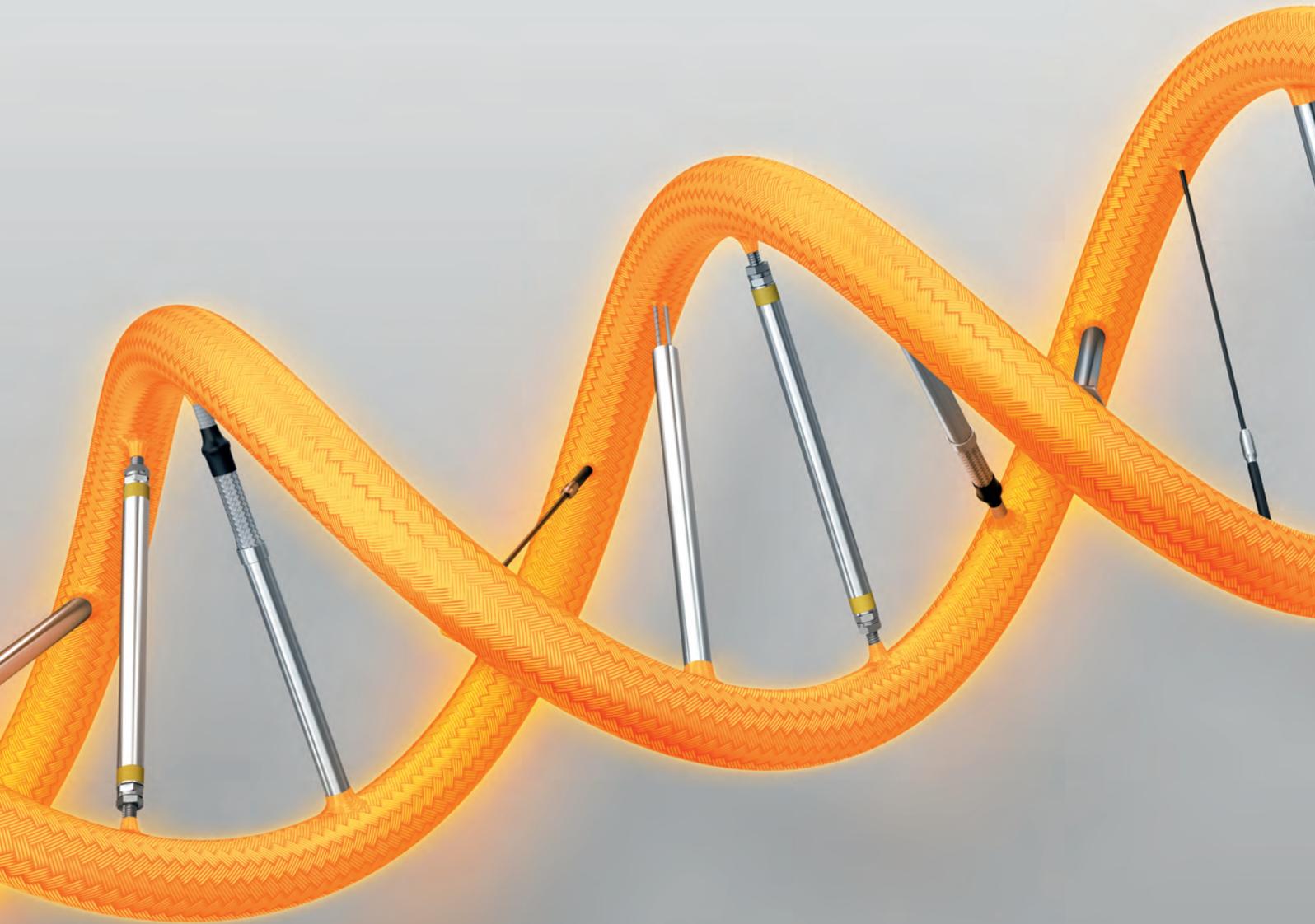
The GC-jacket is reusable.

- GC-jacket非常耐腐蚀。

The GC-jacket is highly resistant to corrosion.

- GC-jacket可用于所有GC-coil直径。

The GC-jacket is available for all GC-coil diameters.



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