
CONTURA
MOLD TEMPERATURE CONTROL
e2
MOLD
精准控制温度
小 微 智 简
Temperature – Precisely on Point
small · smart · simple

高效
“e2 Mold”技术基于创新的加热元件，集成于注塑模具中，可实现局部动态温控。 工艺热量通过模具内部轮廓区域循环生成，仅需数秒即可快速加热微小模具区域。 相比其他系统，能耗显著降低。 具体对比下能耗可减少100至400倍。 该技术可精准调控模具温度分布，完全适配特定应用需求。

紧凑
“e2 Mold”系统结构紧凑，因尺寸小巧，可轻松集成至小型模具镶件中。 其紧凑且静态稳固的设计确保整个镶件的高强度。 紧凑性源于加热元件的几何设计，厚度仅零点几毫米，宽度约5毫米。

简易
系统经实战优化，易于集成至模具（包括现有模具）。 操作简单：更换加热元件如换灯泡般便捷。 电源装置易于使用且经过现场测试。

安全
“e2 Mold” 系统的电气规格符合安全特低电压（SELV）要求。 工作电压<24V，在正常允许即使在单一故障情况下，直接接触也不会因为过电流造成风险。

已验证
通过德国技术中心的全面测试验证。

节约成本
“e2 Mold” 系统以最小投入实现精准效益，可显著降低生产成本。

EFFICIENT
The „e2 Mold“ technology is based on an innovative heating element integrated into the injection molding tool, enabling partial and dynamic temperature control. Process heat is generated cyclically and close to the contour inside the mold, rapidly heating only small tool volumes within seconds. This results in significantly lower energy consumption compared to other systems. Depending on the comparison, energy consumption is reduced by a factor of 100 to 400. The „e2 Mold“ technology allows precise control of temperature distribution in the mold, tailored to the specific application.

COMPACT
The compact „e2 Mold“ system is easily integrated into small tool inserts due to its dimensions. Its compact and statically robust design ensures high strength throughout the entire tool insert. The compact structure results from the heating element’s geometry, which is only a few tenths of a millimeter thick and approximately 5 mm wide.

SIMPLE
The system is optimized for practical use. It is easy to integrate into a tool – even into existing molds. It is simple to handle – replacing the heating element is as easy as changing a light bulb. The power supply units are user-friendly and field-tested.

SAFE
The electrical specifications of the „e2 Mold“ system meet the requirements of Safety Extra-Low Voltage (SELV). The required operating voltage (<24V) is so low that direct contact, whether during regular operation or in the event of a single fault, poses no risk due to excessive body currents.

TESTED
Extensive testing conducted at a technical center in Germany.

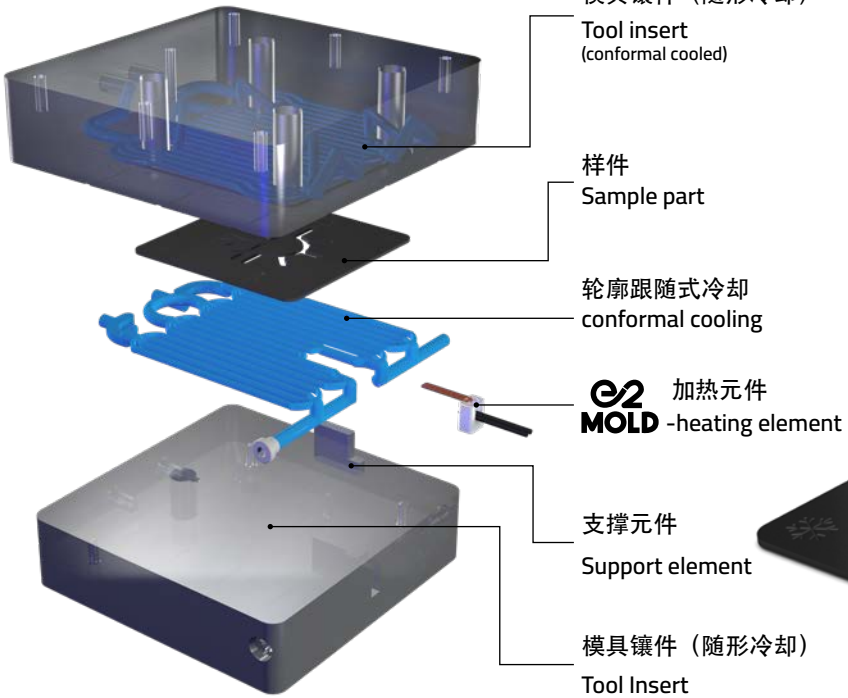
COST SAVINGS
Since the „e2 Mold“ system delivers targeted benefits with minimal effort, this method enables significant cost savings.

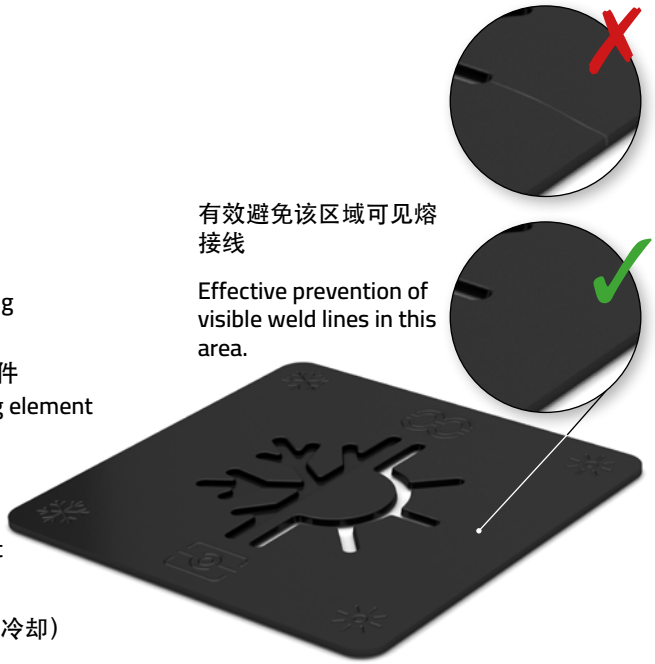
应用案例

使用“e2 Mold”系统解决某样件的熔接线的问题。

EXAMPLE

Application of the „e2 Mold“ system using a sample component with a weld line issue.





结论

成功消除塑料制品中的可见熔接线，暗斑及其他质量问题。

- 及其高效
- 紧凑设计，无缝集成
- 结构及操作简单-仅需标准230V电源插座即可运行
- 低工作电压，卓越安全性
- 能耗极低，显著改善产品碳足迹（PCF）
- 优异的成本效益比

CONCLUSION

Effective elimination of visible weld lines, dull spots, and other quality issues in plastic injection molding through precise temperature control.

- Extremely efficient
- Compact design for seamless integration
- Simple structure and operation – a standard 230V power socket is sufficient
- Exceptionally safe due to low operating voltage
- Significantly improved PCF (Product Carbon Footprint) due to minimized energy consumption
- Excellent cost-benefit ratio

联合开发成果 **A joint development**

KUNSTSTOFF INSTITUT LÜDENSCHEID

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