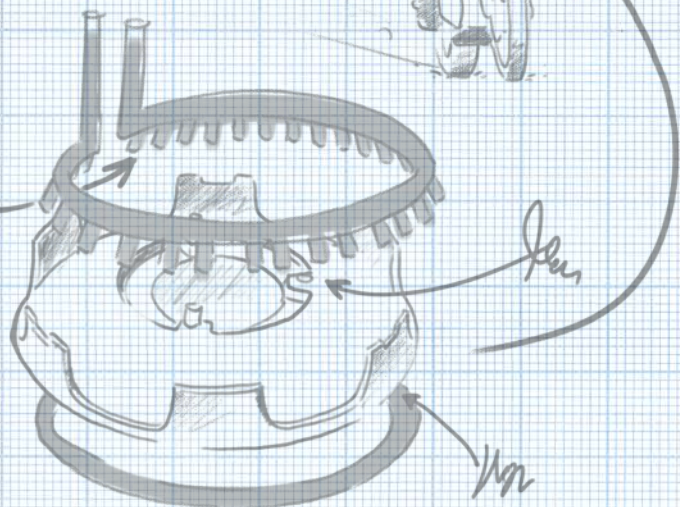
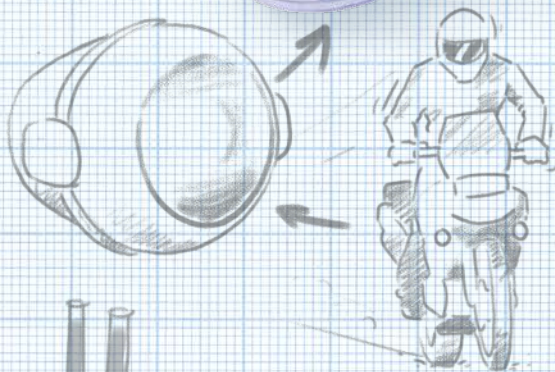


光学透镜

→ The Optical Lens ←



3D CASE STUDY

CASE STUDY

Typical applications of variothermal technology include:

- Injection molding or pressing tools with cavity-proximal cooling channels.
- Typical tool temperature ranges above 100°C; up to a maximum of 200°C.

Heating and cooling according to the injection cycle:

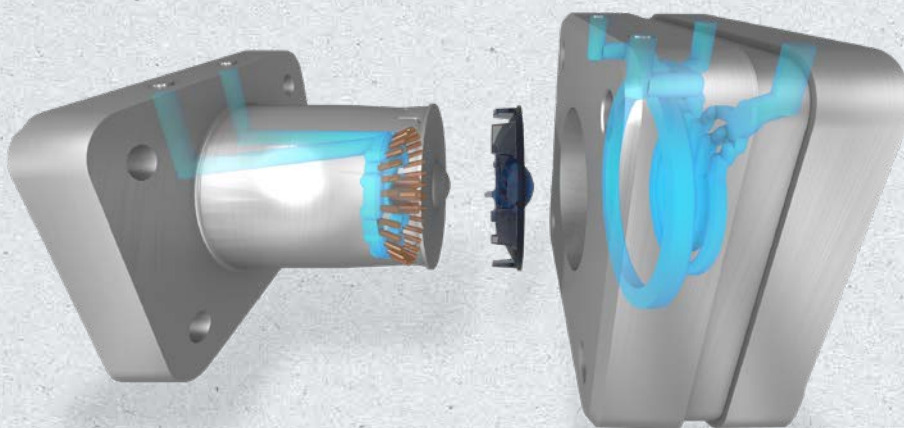
- Up to over 100 K temperature difference between heating and cooling phases within the cavity.
- High capability to enhance the quality of molded parts and/or reduce cycle time significantly.
- Easy integration into a standard tool.

变温工艺的典型应用

- 带有腔内近端冷却水路的注射成型或冲压模具
- 典型模具温度范围在 100°C 以上、200°C 以下

加热和冷却遵循成型周期

- 腔体升温 and 降温之间的温差高达 100 K
- 提高模具产品质量和/或显著缩短成型周期
- 易于集成到标准模具中



The nozzle side and ejector side are depicted as semi-transparent here.

这里显示的是喷嘴侧顶出器侧的半透明效果。



The highest demands on the final product have been made possible through CONTURA® technologies.

康图拉技术使得产出最高质量产品成为可能

Optical components 光学元件

Combining variothermal process control and conformal cooling to enhance optical properties.

变温过程控制和随形冷却结合提高光学性能。

The advantages of conformal cooling are:

- Shortening of cycle time by approximately 30%.
- Improvement of process stability.
- Reduction of correction loops.
- Decrease in energy consumption.
- Optimization of molded part quality.

随形冷却的优势如下

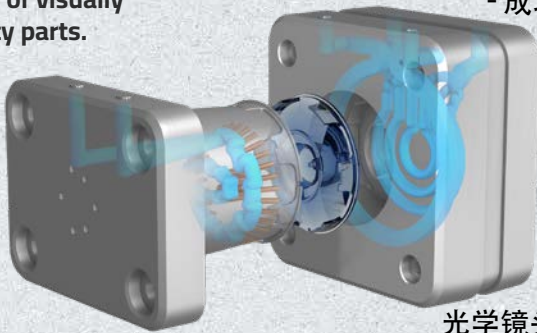
- 成型周期缩短约30%
- 提升工艺稳定性
- 减少校正环路
- 减少能源需求
- 优化成型产品品质

The advantages of variothermal process control include:

- Reduction of cycle times for thick-walled parts (≥ 6 mm).
- Support for filling thin-walled sections.
- Improved crystallinity in the component.
- Production of visually high-quality parts.

变温过程控制的优点包括:

- 厚壁零件 (≥ 6 mm) 的成型周期缩短。
- 支持薄壁零件的填充
- 提升组件的结晶性
- 成功生产高品质产品



Optical lens by Rebo Lighting & Electronics from Eisenach. Through the variothermal design of the mold insert, the demolding properties were optimized in a stable process, allowing for an extension of the holding pressure time.

光学镜头来自德国爱森纳赫市的Rebo Lighting & Electronics公司。通过模具镶件的变温设计，过程稳定并优化脱模性能从而延长了保压时间。

Benefits at a glance: 优势一目了然

| | | |
|--|---|---|
| <p>30% cycletime reduction</p> <p>成型周期缩短30%以上</p> | <p>COPPER inlets for best performance</p> <p>最佳性能的铜质镶件</p> | <p>better MATERIAL-HOMOGENEITY</p> <p>材料均匀性更好</p> |
| <p>reduced CO₂ footprint</p> <p>减少二氧化碳排放</p> | <p>SURFACE improvement</p> <p>表面改善</p> | <p>Elimination of elaborate POST-PROCESSING</p> <p>消除复杂的后部工艺</p> |
| <p>improved PROCESS STABILITY</p> <p>提升工艺稳定性</p> | <p>Significantly less waste</p> <p>显著减少浪费</p> | <p>optional performance GUARANTEE</p> <p>产品视觉保证</p> |

CASE STUDY

大中华区经销商



苏州市默克尔液压系统有限公司
Suzhou Merkle Hydraulic System Co., Ltd.
苏州市工业园区唯新路50号益创科技园11幢2楼201室, 邮编215122
Room 201, 2nd Floor, 11th Building, Yichuang Science Park,
#50 Weixin Road, SIP, Suzhou 215122, P.R. China

Phone: +86 512 6296 9386
Mobile: +86 150 1385 6625
Email: info@ahpmerklechina.com

