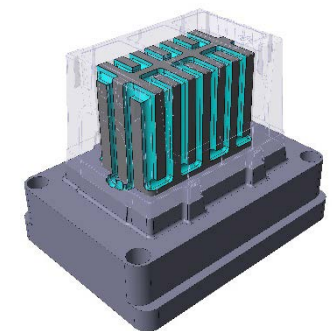
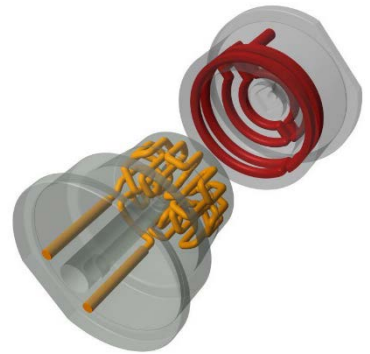


Conformal cooling of Moulds and Dies

- Calculation and design of cooling channels
- 3D-data generation and shop drawings
- CNC manufacturing of pre-components
- Vacuum brazing and vacuum hardening
- Additive manufacturing



Vacuum Brazing&Hardening
Additive Manufacturing
Electron Beam Welding
CNC-Machining
Engineering



Intelligence + quality for moulds and dies

One-Stop procurement of moulds and dies

iQtemp – mould experts add up their know-how for you

Competence:

Listemann Technology AG is among Europe's leading service providers for vacuum brazing. For years our technology has enabled mould makers to smartly machine channels for temperature management into their injection moulds close to cavity. These machined moulds are jointly vacuum brazed to an entire, high-strength and leak-tight component as well as hardened simultaneously in a single process.

Renishaw GmbH is one of the pioneers in additive manufacturing. As the first service provider in Germany for additive manufacturing (SLM/SLS) and machine manufacturer as well it can rely on many years of experience. The layerwise generation of molten powder to a mould enables highly complex channel design for temperature management which cannot be realized by subtractive methods.

Customer Benefit:

Only one contact partner for engineering, design and fabrication of tools and dies for plastic injection moulding and die casting.

Starting with the part to be produced the temperature management will be configured and afterwards defined which technology is used to realize tools and/or moulds.

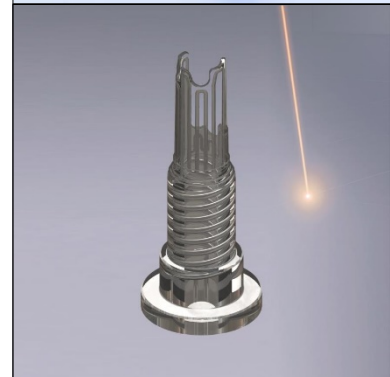
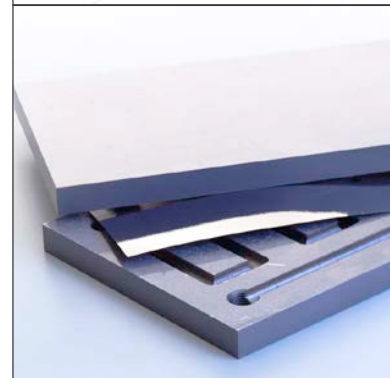
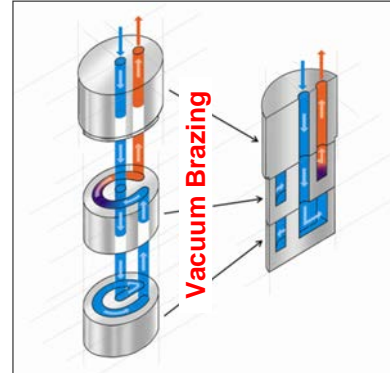
Depending on design vacuum brazing, additive manufacturing or hybrid technologies are applied.

iQtemp Service Portfolio:

By the cooperation under the common brand **iQtemp** the customer has the possibility to select tailored services out of a broad service portfolio. Based on unique services and flexibility customized solutions for temperature management of tools and moulds can be realized in short time.

- Calculation and simulation of temperature management
- Generation of 3D-data / shop-floor drawings
- Additive manufacturing
- Machining of pre-components to be brazed
- Vacuum brazing and –hardening, heat treatment
- Protective coatings against corrosion
- Stainless steel inline-filter

Everything from one hand:
Engineering of temperature management
Pre- and final machining
Vacuum brazing and heat treatment
Prototype manufacturing



VDWF

Die Werkzeugmacher

iQtemp

Intelligence + quality for moulds and dies

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