

Vacuum investment casting. Complex superalloy- based components.

For special component requirements, ZOLLERN produces cast superalloys using the latest VIM technology. Casting weights can be up to 120 kilogrammes and dimensions up to 600 x 600 millimetres.

As with vacuum investment casting, this offers the following advantages:

- virtually unlimited scope for design
- wide range of alloys
- high precision and dimensional accuracy
- near net shape casting
- achievement of complex inner contours via ceramic cores
- high surface quality

Technical data

- Components up to 600 mm in diameter and 600 mm in height
- Component weight from 0.5 kg to 60 kg
- Alloys: superalloys such as nickel-based Inco 718 or Inco 939, Hafnium and Rene-based alloys

Applications

- Chemical industry (boilers, heat exchangers, valves and pumps, chemical reactors, etc.)
- Aviation (engines, turbines, attachments, etc.)
- Automotive industry (valve technology, catalytic converters, etc.)
- Energy and power generation (e.g. power plant generators)
- Oil and gas extraction (e.g. drilling tools)
- Environmental protection and waste management (flue gas desulphurisation plants, incineration plants, desalination plants, etc.)

From the master melt to the ready-to-install product

The in-house manufacturing capacity at ZOLLERN ranges from the master melt to ready-to-install casting parts, where necessary surface-treated and combined into assemblies. Our experienced specialists cast virtually all standardised alloys. Non-standardised special alloys are also produced to customer specifications or modified using existing alloys.



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Foundry technology
Investment casting

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