



Additive Manufacturing

Binder Jetting

BACKGROUND

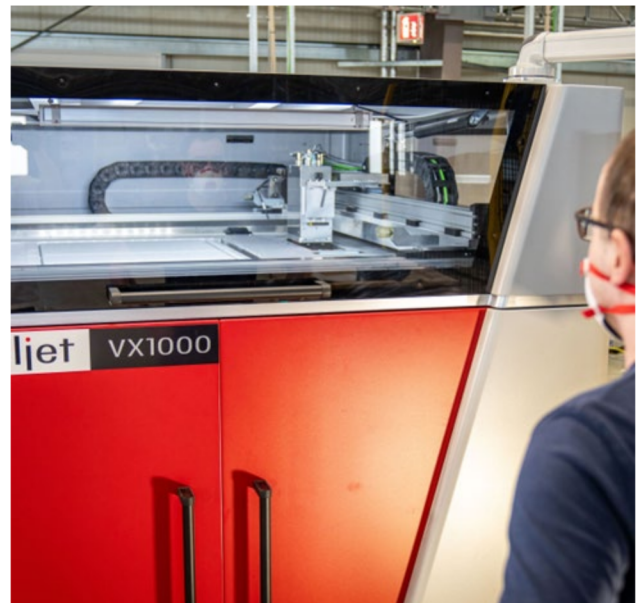
The rapid production of complex components and moulds is particularly crucial in the early stages of development. Classic casting processes often require long lead times due to tool manufacturing. Binder jetting enables tool-free production and thus significantly accelerates the development process.

ADDED VALUE

- Tool-free manufacturing
- Fast iterations
- Reduced development time
- High degree of design freedom
- Efficient casting process preparation

TECHNOLOGY

In binder jetting, a binder is selectively introduced into a powder bed, resulting in the creation of components in layers. Voxeljet systems are used for this purpose, which are used for both polymeric and ceramic applications. There is a particular focus on the production of casting patterns and moulds for investment casting, as well as on the direct production of ceramic moulds. This allows several process steps to be replaced and development time to be significantly reduced.



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