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VIM B52 For Superalloy Barstick Production – Design Features Of An Innovative Furnace Concept

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In 2022 and 2023, for the needs of company Feinguss Blank GmbH, DANIELI developed and built an innovative middle size VIM for the remelting of Ni- and Co-based superalloy scrap from investment casting into barsticks. Several technical challenges, particularly unfavorable scrap geometry, its back-charging etc. were solved. The furnace realizes both, direct pouring and pouring via tundish. Some break-through solutions in process, providing a high level of automation have been found and realized. This new furnace concept sets a milestone in economic and environment-friendly recycling of the high-value superalloys used and processed in investment casting. The paper describes the main design innovations and gives an overview on production results achieved.

Speaker Country

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