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满足恒应变速率等温锻的注油方程及离散化处理

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OIL POURING EQUATION AND ITS DISPERSING TREATMENT FOR ISOTHERMAL FORGING AT CONSTANT STRAIN RATE

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摘要

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摘要 采用传统制造工艺制作的高温合金涡轮盘往往出现晶粒度粗大、不均匀以及宏、微观偏析等问题。这不仅会引起涡轮盘力学性能的不均匀性,而且降低了合金的强度、延性和抗疲劳性。采用粉末冶金制造工艺可有效地改善盘件的冶金质量,使组织均匀,晶粒细化,提高了力学性能和使用的可靠性。我国近年来进行了FGH95(相当于Rene 95)粉末涡轮盘的研制工作。FGH95粉末盘通过热等静压和等温锻造成型,由于热等静压后的坯料原始

关键词:

Abstract: In order to solve the cracking of powder metallurgy (PM) superalloy turbine disc during isothermal forging it is necessary to use a special process of isothermal forging at constant strain rate. The displacement expression of PM billets during deformation with constant strain rate and the oil pouring equation of oil supplying system have been derived in this paper. Considering the real operation condition of forging machine a dispersing treatment has been made to oil pouring equation to meet the needs of deformation of billets at constant strain rate.

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