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论文

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磨削钛合金时砂轮磨损机理的研究

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STUDY ON THE MECHANISM OF WHEEL WEAR DURING GRINDING TITANIUM ALLOY

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摘要

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摘要 磨削钛合金时砂轮磨损严重,磨削比很低。为了改善钛合金的磨削加工性,本文着重分析了造成砂轮磨损的主要原因,论述了粘附磨损、扩散磨损以及磨粒破碎、脱落所造成的磨损,并分析了磨削条件对砂轮磨损的影响。

关键词: 钛合金 磨削 砂轮磨损

Abstract: When grinding titanium alloys with green silicon carbide wheel, the wheel adhesion is serious and the grinding ratio is very low. In order to improve the grindability of titanium alloys, the main reasons causing severe wear of grinding wheel are analysed. The wear of grinding wheel caused by the adhesion diffusion and fracture is discussed, and the influence of grinding conditions on the wheel wear is studied. Based on the experimental studies and theoretical analyses, the main ways to raise grinding ratio and to decrease the wear of grinding wheel are proposed.

Keywords: titanium alloys grinding grinding wheel wear

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