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表面硬化钢磨削表层质量的研究

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STUDIES ON GROUND SURFACE LAYERS QUALITY OF CASEHARDENED STEEL

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摘要

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摘要 表面硬化钢磨削时容易引起烧伤,本文以单位面积磨削功率 P_c 作为磨削过程特征参量,应用各种测量技术评价磨削表层状态。试验表明,不同的磨削表层质量与 P_c 有很好的对应关系。

关键词: 磨削表面质量 磨削烧伤 磨削 表面硬化钢

Abstract: The state of ground surface layers is evaluated with different measuring techniques. The results of microhardness distribution, metallograph, surface topography and colour of the different ground surfaces are correlated with the related grinding power P_c . If the P_c exceeds a specific threshold, the physical properties and the colour of the ground surface are changed, caused by grinding burn. The degree of burning increases as the P_c becomes higher. Under the flawless grinding condition the residual stresses can be calculated with an empirical equation. To results indicate that the different ground surface qualities and grinding burn degrees can be identified and estimated with the related grinding power P during the grinding process without destruction of the workpiece.

Keywords: ground surface quality grinding burn grinding casehardened steel

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