

## 基于回归分析的卷制轴套圆度精度模拟结果评价

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关键词: 卷制轴套 圆度 误差分析 回归分析 模拟

摘要: 针对卷制轴套圆度精度分析问题, 提出了采用回归分析方法解决轴套卷制后的形状精度评价, 得出了粉末层厚度和模具间隙是影响轴套形状精度的主要因素, 并通过具体实例做了对比试验, 理论模拟结果与实际结果相差为0.025~0.057 mm, 基本保持一致。 Aimed at the roundness evaluation, a regression analysis method evaluating the shape accuracy of the wrapped bearings was proposed. The analysis shows that the main influence parameters on the shape accuracy are thickness of powder and model clearance. Finally, the comparison test was carried out by a concrete example. The simulated results of the roundness are about consistent with the actual measurements and their discrepancy is only 0.025~0.057 mm.

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