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Analysis of stress and fatigue life of ball screw with considering the dimension errors of balls

NiQi ZhenAn

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Highlights

- A calculation model to calculate the contact stress and fatigue life of ball screw with considering balls' dimension errors is carried out.
- The influences of different kind of dimension error on mechanical properties of ball screw are analyzed.
- The influences of balls' machining accuracy on the fatigue life of ball screw are studied.



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