

Test conditions for numerically controlled turning machines and turning centres —

Part 4: Accuracy and repeatability of positioning of linear and rotary axes

ICS 25.040.20

National foreword

This British Standard reproduces verbatim ISO 13041-4:2004 and implements it as the UK national standard.

The UK participation in its preparation was entrusted to Technical Committee MTE/1, Machine tools, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to iv, pages 1 to 6, an inside back cover and a back cover.

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Test conditions for numerically controlled turning machines and turning centres —

Part 4: Accuracy and repeatability of positioning of linear and rotary axes

*Conditions d'essai des tours à commande numérique et des centres de
tournage —*

*Partie 4: Précision et répétabilité de positionnement des axes linéaires
et rotatifs*



Foreword

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ISO 13041-4 was prepared by Technical Committee ISO/TC 39, *Machine tools*, Subcommittee SC 2, *Test conditions for metal cutting machine tools*.

ISO 13041 consists of the following parts, under the general title *Test conditions for numerically controlled turning machines and turning centres*:

- *Part 1: Geometric tests for machines with a horizontal workholding spindle*
- *Part 2: Geometric tests for machines with vertical workholding spindle*
- *Part 3: Geometric tests for machines with inverted vertical workholding spindle*
- *Part 4: Accuracy and repeatability of positioning of linear and rotary axes*
- *Part 5: Accuracy of feeds, speeds and interpolations*
- *Part 6: Accuracy of a finished test piece*
- *Part 7: Evaluation of contouring performance in the coordinate planes*
- *Part 8: Evaluation of thermal distortions*