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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 25380-2010

**Numerical control gear hobbing machine -- Testing of the
accuracy**

数控滚齿机 精度检验

(English Translation)

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Foreword

This revised standard adopts ISO 6545:1992 "hobbing Acceptance conditions" (in English).

This standard is based on ISO 6545:1992 re-drafted.

This standard and ISO 6545:1992 compared, there is a technical difference.

--- To ISO 6545:1992 and other international standards referenced in place with the adoption of international standards corresponding to our standard;

--- References added GB/T 8170-1987, GB/T 13924-1992 and GB/T 17421.2-2000;

--- Delete references to ISO 701. 1976, because the content of this standard and other standard references already described;

--- To ISO 6545:1992 in the part of the symbol has been adjusted, with the GB/T 10095.1-2008 consistent;

--- Test of geometric precision of testing methods G6.2 items have been adjusted to suit our requirements;

--- Information about the linear axis CNC positioning accuracy test items in test of geometric precision, CNC machine tools to meet the needs.

For ease of use, this standard also ISO 6545:1992 made the following editorial changes.

--- Remove the ISO 6545:1992 Foreword;

--- To ISO 6545:1992 describes the scope has been modified to fit our language habits of expression, and the removal of which the use of Language instructions;

- The ISO 6545:1992 in Chapter 3 into Chapter 5, Chapter 4 becomes Chapter 3 Chapter 5 Chapter 4 turns to accommodate me State standard coding habits;
- Remove the terminology French, Russian and German definition, an increase of Chinese definitions;
- Remove the ISO 6545:1992 English section in units of measurement and their descriptions;
- Remove the ISO 6545:1992 in a number of causes of error, the error results and other information content;
- Accuracy test to work in tabular form and text written to fit our accuracy standard coding habits.

The standard proposed by China Machinery Industry Federation.

The standard metal cutting machine tools by the National Standardization Technical Committee (SAC/TC22) centralized.

This standard was drafted. Chongqing Machine Tool (Group) Co., Ltd., Nanjing Machine Tool Co., Ltd., Shanghai First Machine Tool Plant, Wuhan Heavy Duty Machine Tool Group Co., Ltd.

1 Scope

This standard specifies the geometric precision CNC hobbing, gear accuracy and precision of test requirements and test methods.

This standard applies to the maximum workpiece diameter 80mm ~ 2000mm CNC hobbing machine (hereinafter referred to as the "Machine").

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 8170-2008 revised value represents about rules and limit values \u200b\u200band judgment GB/T 10095.1-2008 Cylindrical gear accuracy system - Part 1. Definitions tooth surface deviation and ipsilateral tooth allowable value (ISO 1328-1:1995, IDT) GB/T 13924-2008 involute cylindrical gears accuracy testing Details GB/T 17421.1-1998 Test code for machine tools - Part 1. under no-load or finishing conditions Geometric accuracy of machines (eqv ISO 230-1:1996) GB/T 17421.2-2000 Test code for machine tools - Part 2. CNC axis positioning accuracy and repeatability of determination (Eqv ISO 230-2:1997)

3 Terms

Terminology Table 1 and Figure 1.

figure 1