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

GB/T 6404.1-2005

**Acceptance code for gear units -- Part 1: Test code for airborne
sound**

(English Translation)

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Foreword

GB/T 6404 "Acceptance code for gear units" is divided into two parts.

- Part 1. Test code for airborne sound;
- Part 2. Determination of mechanical vibrations of gear units during acceptance testing.

This is Part 1 of GB/T 6404, corresponding to ISO 8579-1.2002 "Acceptance code for gear units - Part 1. Test code for airborne sound" (English version).

This Part replaces GB/T 6404-1986.

This Part identically adopts ISO 8579-1.2002. For ease of use, the following editorial modifications have been made to this Part.

- Some formatting was modified to conform to Chinese language conventions;
- Replaced the comma "," used as a decimal point with a period ".";
- Deleted the foreword and introduction of ISO 8579-1.

Annex A, Annex B and Annex C of this Part are informative.

This Part was proposed by China Machinery Industry Federation.

This document shall be under the jurisdiction of National Technical Committee on Gears of Standardization Administration of China.

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Versions of standard substituted by this document are.

- GB/T 6404-1986.

Acceptance code for gear units - Part 1. Test code for airborne sound

1 Scope

This Part of GB/T 6404 specifies the instructions and standardized conditions necessary for the determination of the airborne sound emission of gear units and gearmotors. It also specifies the allowed measurement methods, together with the operating and mounting conditions used for the test.

The emission characteristics include emission sound pressure levels at specified positions and the sound power level. The determination of these quantities is necessary for

- a) manufacturers of gear units or gearmotors, in order that they may be able to declare the emitted sound,
- b) for comparing the sound emitted by gear units and gearmotors under service operation, and
- c) for the purpose of noise control at the design stage.

This Part of GB/T 6404 has the aim of ensuring, with its use, the reproducibility of the determination of the airborne sound emission characteristics within specified limits determined by the grade of accuracy of the basic measurement method used. The sound measurement methods allowed by this Part of GB/T 6404 are engineering methods

(grade 2) and survey methods (grade 3).

2 Normative references

The provisions in following documents become the provisions of this Part of GB/T

6404 through reference in this Part. For dated references, the subsequent amendments

(excluding corrigendum) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 10095.1-2001, Cylindrical gears -- System of accuracy -- Part 1. Definitions and allowable values of deviations relevant to corresponding flanks of gear teeth (idt ISO 1328-1.1997)

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