

ICS 17.040.30

CCS J42



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

GB/T 26091-2010

**Gear single-flank meshing integrated error measuring
instrument**

齿轮单面啮合整体误差测量仪

Issued on: January 10, 2011

Implemented on: October 1, 2011

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

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Foreword

Appendix A of this standard is an informative annex. The standard proposed by China Machinery Industry Federation. The standard measuring instrument by the National Standardization Technical Committee (SAC/TC132) centralized. This standard was drafted. Chengdu Tool Institute. The main drafters of this standard. Sun Wenwen, Jiang Zhigang, Dunning, Liang Jun. Single flank gear integrated error measuring instrument

1 Scope

GB/T 26091-2010 is the Chinese national standard on gear single-flank meshing integrated error measuring instrument, in the field of metrology and measurement. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 10 January 2011 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 October 2011. Classification: ICS 17.040.30, CCS J42. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the single flank gear integrated error measuring instrument of terms and definitions, types and basic parameters, requirements, test methods, test Rules, signs and packaging. This standard applies to the engaging element as a reference standard cylindrical gear meshing sided integrated error measuring instrument (hereinafter referred to as "the whole measurement error Meter").

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 191-2008 Packaging - Pictorial signs (ISO 780.1997, MOD)

GB/T 4879-1999 rust-proof packaging

GB/T 5048-1999 proof packaging

GB/T 6388-1986 transport package shipping mark

GB/T 9969-2008 General Industrial Product Manual

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 14436-1993 General industrial products assurance documents

GB/T 17163-2008 dimensional measuring instruments - Basic terminology

GB/T 17164-2008 dimensional measuring instruments - Product terms

3 Terms and Definitions

GB/T 10095.1-2008, GB/T 17163-2008, GB/T 17164-2008 established in the following terms and definitions as well as appropriate For this standard.

3.1 Based intermediate gear meshing error separation measuring principle, with shaft, angular displacement sensor, a gear coaxially mounted, based on a standard engagement Element and the measured gear meshing transmission as one-sided, the integration of modern electronic information technology to create a measurable cylindrical gear tooth pitch deviation tangential composite Measuring instruments deviation, tooth profile deviation, pitch deviation group, helix deviations and other types of test items.

Note. The overall error measuring instrument can test gear error Item Description Appendix A.

3.2 Overall error curve gearintegratederrorcurve gear A gear error value to any of the points a work-sectional profile of the tooth to the same zero measure, according to the actual engagement of the tooth profile of each point Expand Angular distribution of the order coming up with the pitch deviation associated tooth profile curve deviation Photos. On this graph can sorting gear and more comprehensive deviation A single deviation.