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

GB/Z 24636.1-2009

**Geometrical product specifications(GPS) - Statistical tolerance
- Part 1: Terms, definitions and basic concepts**

产品几何技术规范 (GPS) 统计公差 第1部分：术语、定义和基本概念

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Foreword

GB /Z24636 "Product Geometrical Specifications (GPS) Statistical Tolerance" is divided into the following five parts.

- Part 1. Terms, definitions and basic concepts;
- Part 2. statistical tolerance values and their designations;
- Part 3. Part Lot (process) of the statistical quality indicators;
- Part 4. statistical tolerance design based on a given level of confidence;
- Part 5. Assembly batch (hole, shaft with) the statistical quality indicators. This section GB /Z24636 Part 1. Appendices A and B of this section are informative appendices. This part of the National Product Size and Geometry Technical Standardization Technical Committee proposed and centralized. This section Drafted by: Machine Productivity Promotion Center,

Shandong University of Technology, Zhengzhou University, Zhongyuan Institute of Technology, Zhejiang Asia Pacific Electrical and Mechanical Services shares Limited, Xi'an Jiaotong University. The main drafters of this section. Bear Xiong, Zhang Yu, Zhang Linna, Zhao Zexiang, Huang Guoxing, Chen Xiujuan, King Wei Xuan, Yang Mu Sheng. Product Geometry Specifications (GPS) Statistical tolerance Part 1. terminology, definitions and basic concepts

1 Scope

GB/Z 24636.1-2009 is the Chinese national standard on geometrical product specifications(gps) - statistical tolerance - part 1: terms, definitions and basic concepts, in the field of metrology and measurement. The /Z suffix marks it as a guiding technical document: it does not prescribe requirements that can be certified against, but sets out the technique, the method or the state of the art that the standards bodies recommend following. It was issued on 15 November 2009 by the State Administration for Market Regulation; Standardization Administration of China. As a guiding technical document it carries no separate date of entry into force: it applies from publication. Classification: ICS 17.040.10, CCS J04. 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.

GB /Z24636 provisions of this part of the statistical tolerance of terms, definitions and basic concepts. This section applies to the linear size of the application of statistical process control, especially with a higher tolerance level with the size, but also for Bilateral specification limits and the application of statistical process control metrology quality characteristics.

2 Normative references

The following documents contain provisions which, through reference in this part of GB /Z24636, become the provisions of this section. Any reference to the date of the citation All subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to be reached under this section The parties to the agreement examine whether the latest versions of these documents are available. For undated references, the latest version applies to this book section. Statistical terms - Part 1. General statistical terms

GB/T 18779.1-2002 Geometrical product specifications (GPS) - Measurement of work piece and measuring equipment - Part 1. Pressing Rules for judging the conformity or non-conformity of test (eqv

ISO 14253-1..1998) GB /Z20308 Geometrical product specifications (GPS) master plan

(GB /Z20308-2006, ISO /T R14638..1995, MOD)

3 Terms and definitions

3.1 Terms and definitions related to regulatory limits 3.1.1 [GB/T 18779.1-2002 definition 3.7] 3.1.2 [GB/T 18779.1-2002 definition 3.8]

3.1.3 $M = USL + LSL/2$ 3.1.4 [GB/T 18779.1-2002 definition 3.2]

3.1.5 Relevant quality indicators, process capability indices and statistical parameters, as specified by specific symbols and values,