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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 12471-2009

Replacing GB/T 12471-2009

Geometrical product specifications (GPS) - Wooden part - Limit and fit

产品几何技术规范（GPS） 木制件 极限与配合

Issued on: March 16, 2009 **Implemented on: November 1, 2009**

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Standardization Administration of China

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Foreword

This standard replaces GB/T 12471-1990 "wooden pieces tolerance and cooperation", the main changes are as follows:

--- Standard name from "wooden pieces tolerance and cooperation" to "Geometrical product specifications (GPS) wooden pieces limits and fits";

3.1 to Chapter 3, "Terms and Definitions";

--- "Basic size" to "nominal size";

--- "On the bias" and "under bias" were changed to "the extreme bias" and "lower limit deviations";

--- Chapter 3 of "Basic requirements" to Chapter 4;

--- Cancellation 3.4;

--- Standard tolerances increase IT19, the segment size "0 ~ 500mm" to "0 ~ 800mm";

4.3 combined, basic axis deviation increase zg,

1 Figure amended accordingly;

--- 5.1 "hole tolerance band is defined as H10 ~ H18" to 6.1 "hole tolerance band is defined as H10 ~ H19";

--- Table 3 axis with increased tolerance "zd13, ze13, zg13, b14, za14, zc14, ze14, a15, k15, za15, zc15, ze15, zf15" , 14;

--- Table size section 12 by paragraph 6 to 7 segment, while the table each deviation change accordingly. Appendix E of this standard is a normative appendix, Appendix A, Appendix B, Appendix C, Appendix D, Annex F is informative appendix. This standard GPS location system in Appendix F. The standard dimensions and geometry by the National Technical Committee of Standardization Technical specifications and centralized. This standard was drafted. the machine Productivity Promotion Center, Chang'an Automobile

(Group) Co., Ltd., Chongqing Institute of Standardization, Chongqing Construction industry limited liability company. The main drafters of this standard. Cao Xia, Lixiao Pei, Li Si Jin, Huang Zhongxu, Zou Ji Su, Yin Zhiwu, Li Wei, easy to defend clouds. This standard replaces the standards previously issued as follows:

--- GB/T 12471-1990. Geometrical product specifications (GPS) Wooden parts of limits and fits

1 Scope

GB/T 12471-2009 is the Chinese national standard on geometrical product specifications (gps) - wooden part - limit and fit, 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 16 March 2009 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 November 2009. 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.

This standard specifies the wooden pieces (wood and wood materials, semi-finished parts and components) standard tolerance, the basic bias, often bore and shaft Limit deviation value with a tolerance zone. When applying the limits and fits, in tabular values \u200b\u200bprevail. This standard applies to nominal size when with the size to 800mm, nominal size with the size to 5000mm is non-wooden parts, Also suitable for wood and non-wood components parts fit. Refer to the use of several different materials and composite wood pressed wood pieces.

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. Part 1 (GPS) Limits and fits

GB/T 1800.1-2009 Geometrical product specifications. tolerances, deviations and fits the base Basis (ISO 286-1. 1988, MOD)

GB/T 1800.2-2009 Geometrical product specifications (GPS) limits and fits - Part 2.

Standard tolerance grades and holes and shafts The limit deviations (ISO 286-2. 1988, MOD)

GB/T 1804-2000 General tolerances for linear and angular dimensions without individual tolerance tolerance (eqv ISO 2768-1. 1989)

GB/T 1932-1991 Determination of shrinkage of the wood

GB/T 6491-1999 quality sawn timber drying

GB/T 8170 Revised figures indicate about the rules and limit values \u200b\u200band judgment GB /Z20308-2006 Geometrical product specifications (GPS) Master Plan (ISO /T R14638.1995, MOD)

3 Terms and Definitions

Terms and definitions GB/T 1800.1-2009 established apply to this standard.

4 Basic provisions

Values \u200b\u200band standards prescribed tolerances

4.1 standard code, tolerances, deviations and fits and basic deviation by GB/T 1800.1-2009 Provisions; limit hole axis deviation according to GB/T 1800.2-2009 requirements; not note size limit deviation tolerance Press GB/T 1804- 2000 provisions.

4.2 standard system with priority using the base hole.

4.3 moisture content of wood products shall comply with the technical conditions and GB/T 6491-1999 Chapter 3. Wooden pieces the size shrinkage due to swelling Error Appendix A. Determination of shrinkage of the wood should be consistent with GB/T 1932-1991 requirements.

5 Standard tolerances and fundamental deviations

5.1 standard tolerance is divided into 10, that IT10 ~ IT19, its value is shown in Table 1. 5.2, code-named reference hole H, the basic deviation value zero. The basic axis deviation 17, codenamed ay, az, a, b, c, h, js, k, u, y, za, zb, zc, zd, ze, zf, zg. The basic deviation series Figure 1, the value shown in Table 2. Size larger than 800mm standard tolerances and fundamental