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

GB/T 46848.5-2025

**Technical product documentation - Product design data
management requirements - Part 5: Document management**

技术产品文件 产品设计数据管理要求 第5部分：文档管理

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Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Classification and Coding
 - 4.1 Document Classification
- 5 Document Management
- 7 Approval and Issuance
- 8 Change Management
- 9 Storage and Maintenance

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document is Part 5 of GB/T 46848 "Requirements for the Management of Product Design Data in Technical Product Documentation". GB/T 46848 has been... The following sections were published.

1. General Provisions;

2. Numbering Principles;

3. Basic Procedures;

4. Access Control;

5. Document Management;

6. Product Structure Management;

7. Approval and Issuance;

8. Change Management;

9. Storage and Maintenance. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the National Technical Committee on Standardization of Technical Product Documentation (SAC/TC146). This document was drafted by: Shanghai Pairui Information Technology Co., Ltd., the 38th

Research Institute of China Electronics Technology Group Corporation, and China Machinery Production. Power Promotion Center Co., Ltd., Wanxiang Qianchao Co., Ltd., Shandong Shanda Huatian Software Co., Ltd., Beijing Aerospace System Engineering Research Institute Research Institute, SAIC-GM-Wuling Automobile Co., Ltd., Guangxi Yuchai Machinery Co., Ltd., CRRC Qishuyan Locomotive Co., Ltd., China Machinery Research Institute Standards and Technology Research Institute (Beijing) Co., Ltd. The main drafters of this document are. Ni Hao, Lin Jingsong, Zhang Hongqi, Chen Jie, Luo Haipeng, Shi Bomei, Qu Yaning, He Yantian, Pi Zan, and Gan Yutian. Xing Yingying, Shi Guoyou, Gao Hongwei.

With the gradual application and promotion of 3D computer-aided design (CAD) technology, and the application of model-defined design (MBD) technology in manufacturing... Within enterprises, 3D digital models have gradually replaced 2D engineering drawings, becoming the core data carrier in the product development process. This shift... This change not only reflects the evolution of technological forms, but also signifies a profound transformation in product design methodologies and management models. Because 3D models are crucial in technological information... The data management and document control methods differ significantly from the traditional two-dimensional model in terms of information expression, data organization structure, and collaborative management. The process also faces systemic restructuring. To adapt to the development approach centered on 3D digital models, this system addresses the bottlenecks in product design data management within a 3D environment. The problem is to promote the popularization and engineering application of model-based definition technology, support the digital transformation and upgrading of my country's manufacturing industry, and formulate... GB/T 46848 "Requirements for the Management of Product Design Data in Technical Product Documentation". GB/T 46848 is based on the entire lifecycle of product design data. The management process is planned to consist of nine parts.

1.General Provisions. The purpose is to stipulate the general rules for the classification, compilation, archiving, copyright, and protection of product design data. It forms the foundation and framework for the entire series of standards.

2.Numbering Principles. The purpose is to define the general principles, basic requirements, and numbering methods for product design data files. This method ensures the consistency and traceability of data file identification.

1 Scope

GB/T 46848.5-2025 is the Chinese national standard covering the documents alongside the models - the specifications, calculations, reports and instructions, their identification and versioning, and their relationship to the parts and assemblies they describe. Part 5 of the GB/T 46848 series, first edition. It was issued on 31 December 2025 and has been in force since 1 April 2026, as a first edition. The document is under the responsibility of the

Standardization Administration of China. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the classification and coding, creation and compilation, review and distribution, change management, storage and maintenance of product design data documents. Search and access. This document applies to document management in product design data management.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 16722.3-2008 Technical Product Documentation - Computer-Aided Technical Information Processing - Status During Product Design

GB/T 16722.4-2008 Computer-Aided Technical Information Processing, Document Management and Retrieval System for Technical Product Documents

GB/T 17825.2-1999 Basic Format for CAD File Management

GB/T 18894-2016 Standard for Electronic Document Archiving and Electronic Records Management

GB/T 26099.2-2010 General Rules for 3D Modeling of Mechanical Products Part

3 Terms and Definitions

The terms and definitions defined in GB/T 46848.1 apply to this document.

4.1 Document Classification

4.1.1 Classification Principles The classification of documents should generally follow these principles.

- a) Scientific rigor. The most stable essential attributes or characteristics of the document should be selected as the basis and foundation for classification.
- b) Systematization. It should be systematized according to a certain order, forming a reasonable classification system.
- c) Extensibility. The classification system should meet the needs of continuous development

and change of documents.

d) Compatibility. The classification should be consistent with existing standards or regulations.

7 Approval and Issuance

GB/T 46848.8 Technical Product Documentation - Product Design Data Management Requirements - Part

8 Change Management

GB/T 46848.9 Technical Product Documentation - Product Design Data Management Requirements - Part