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

GB/T 46848.8-2025

**Technical product documentation - Product design data
management requirements - Part 8: Change control**

技术产品文件 产品设计数据管理要求 第8部分：更改管理

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Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	1
4.Change Principles	1
5.Change category	1
6.Changes	2
7.Change Requirement	2
9 Version Management	8
10 Access Control	8
11.Changes to the distribution method	9
10 Reference	14

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 8 of GB/T 46848 "Requirements for the Management of Technical Product Documentation and Product Design Data". 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: Inner Mongolia First Machinery Group Co., Ltd., the 38th Research Institute of China Electronics Technology Group Corporation, and China Machinery Engineering Corporation. Productivity Promotion Center Co., Ltd., CRRC Dalian Locomotive & Rolling Stock Co., Ltd., CRRC Zhuzhou Electric Locomotive Co., Ltd., Beijing Aerospace Systems Engineering Research Institute, SAIC-GM-Wuling Automobile Co., Ltd., XCMG Construction Machinery Co., Ltd., and Xi'an Power Control Technology Co., Ltd. of Aero Engine Corporation of China Technology Co., Ltd., Shanghai Pairui Information Technology Co., Ltd., Guangxi Yuchai Machinery Co., Ltd., China Machinery Research Institute (Beijing) Limited Liability Company. The main drafters of this document are. Du Shaofeng, Gao Xia, Zhao Fu, Zhou Hongqiao, Chen Jie, Wang Hong, Ruan Siwei, Zhao Bo, Gan Yutian, Wu Aijian, and Wang Yu. Ni Hao, Luo Zhijian, 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 46848.8-2025 is the Chinese national standard covering engineering change - the request and its assessment, the impact on other parts and on stock and in-service units,

the approval, the effectivity date and the traceability of what changed and why. Change control is where design data management is actually tested. It is one of the seven parts of GB/T 46848 issued together, a first edition, and it belongs with the PLM system requirements of GB/T 47688-2026. 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 principles, classifications, content, and requirements for changing product design data, as well as numbering and version management. Management requirements such as access control, storage, and maintenance. This document applies to the management of changes to product design data.

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 46848.1 Technical Product Documentation - Product Design Data Management Requirements - Part

3 Terms and Definitions

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

4.Change Principles Changes to product design data should follow these principles.

- a) The interrelationship between all elements (geometric elements, dimensional elements, etc.) should be ensured;
- b) The coordination and consistency among all relevant design documents should be ensured;
- c) Changes to the design documents (or simultaneous changes) can only be made after the change notification form has been fully signed and approved.

5.Change category Changes to product design data can be categorized into the following two types.

- a) Formal change. 1) Major changes; 2) General changes.

b) Temporary changes.

4 Access Control

GB/T 46848.7 Technical Product Documentation - Product Design Data Management Requirements - Part

7 Approval and Issuance

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

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