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

GB/T 46848.3-2025

**Technical product documentation - Product design data
management requirements - Part 3: Basic procedures**

技术产品文件 产品设计数据管理要求 第3部分：基本程序

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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 3 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: Guangxi Yuchai Machinery Co., Ltd., China Machinery Productivity Promotion Center Co., Ltd., and Beijing Kexin Era Information Technology Co., Ltd. Technology Co., Ltd., CRRC Zhuzhou Electric Locomotive Co., Ltd., SAIC-GM-Wuling

Automobile Co., Ltd., Beijing Aerospace Systems Engineering Research Institute Institute, XCMG Construction Machinery Co., Ltd., and China Machinery Research Institute (Beijing) Co., Ltd. The main drafters of this document are. Luo Zhijian, Wang Yunfeng, Luo Haipeng, Li Daisong, Liu Jing, Tang Wei, Ruan Siwei, Gan Yutian, Li Junping, and Zhao Bo. Zhang He and 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 serves as 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 46848.3-2025 is the Chinese national standard covering the basic procedures of design data management - creation, review, release, distribution, archiving and withdrawal, and who does what at each step. 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 main stages and basic processes for the formation of product design data, as well as the requirements for completeness and standardization review. This document applies to the management of product design data during the product design process.

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 24734 (all parts) General Rules for Digital Product Definition Data of Technical Product Documentation

GB/T 26099 (all parts) General Rules for 3D Modeling of Mechanical Products

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 apply to this document.

4. Main stages of product design data formation The main stages of product design data formation typically include the feasibility study stage, preliminary design stage, technical design stage, and working documents stage. The design phase is shown in Figure 1. Figure