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Smart factory digital delivery-Part 1: General requirements

智能工厂数字化交付 第1部分：通用要求

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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 1 of GB/T 43553 "Smart Factory Digital Delivery": GB/T 43553 has released the following parts:

- Part 1: General requirements:

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Introduction

After the completion of the smart factory, the digital delivery content is cumbersome, the amount of data is large, and it faces problems such as lack of standards and insufficient guidance:

The delivery management mechanism of the smart factory construction process is not clear: GB/T 43553 will fill the gap in smart factory digital delivery standards White, enabling stakeholders to implement smart factory delivery effectively, standardized and securely:

GB/T 43553 is intended to consist of the following three parts:

- Part 1: General requirements: The purpose is to standardize the digital delivery principles of smart factories and improve the supply of smart factory deliverers:

Competence and level of specialization:

- Part 2: Design Delivery: The purpose is to put forward clear requirements and rules for the content and process components of the design delivery phase:

- Part 3: Completion and delivery: The purpose is to put forward clear requirements and rules for the content and process components of the completion delivery stage:

Smart factory digital delivery Part 1: General requirements

1 Scope

This document specifies the delivery framework, delivery management, delivery content, delivery form and delivery security of smart factory digital delivery:

This document is suitable for guiding the digital delivery of factory design, construction, trial production, and completion acceptance phases in smart factory construction projects: It is not suitable for Used to guide the digital delivery of factory production operation stages and enterprise management information systems:

2 Normative reference documents

GB/T 18894

GB/T 22239

GB/T 22240

GB/T 25068

3 Terms and definitions

The following terms and definitions apply to this document: 3:1 smart factory smartfactory On the basis of the digital factory, the Internet of Things technology and monitoring technology are used to strengthen information management and services, improve the controllability of the production process, and Reduce manual intervention on the production line and rationally plan and schedule: At the same time, it integrates emerging technologies such as intelligent means and intelligent systems to build an efficient and Energy-saving, green, environmentally friendly and comfortable humanized factory:

[Source: GB/T 38129-2019,3:1:1] 3:2 digitaldigital Apply information technology to transform information generated during factory design, procurement, construction, debugging and other stages into identifiable, storable, and Computable data, the process of establishing data organization models, and using computers for processing, analysis, and application: 3:3 Through information technology and according to the contract, all kinds of information during the design, construction and completion of smart factories are transformed into quantifiable data:

data, establish an appropriate data organization model, and deliver it to relevant parties in a digital format that is readable by information system software tools: 3:4 Delivery party delivery The responsible body responsible for the final handover of digital delivery information for smart factories: