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**Heavy mechanical - Design specifications for automation
system**

重型机械 自动化系统设计规范

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Table of Contents

Preface	
1 Scope	
2 Normative references	
3 Terms and Definitions	
4 Overall architecture and functional design	
4.1 Overview	
4.2 Automation system functions	
4.3 System interface design	
4.4 System Integration and Testing	
5 General Requirements	
5.1 Performance requirements	
5.2 Security Requirements	
5.3 Power supply and power supply and distribution system requirements	
5.4 Operation requirements	
5.5 Application Environment Design	
5.6 Environmental protection and energy saving requirements	
5.7 Maintenance and repair requirements	
6 Design drawings and technical documents requirements	
6.1 Drawing requirements	
6.2 Graphical symbols	
6.3 Preparation of technical documents	
7 Hardware Requirements	
7.1 Controller	
7.2 Communication Interface	
7.3 Requirements for the number of input and output signals	
7.4 Sensor Requirements	
7.5 Design requirements for electronic control equipment	
7.6 Computer Systems	
8 Software Requirements	10
9 Human-machine interface (HMI) design requirements	
9.1 Screen Design	
9.2 Equipment selection	

9.3 HMI design requirements

10 Communication and Network Requirements

10.1 Performance Requirements

10.2 Basic Automation Control System (Level 1) Communication Requirements

10.3 Communication requirements for process automation control systems (Level 2)

11 Main performance of automation system

11.1 Response Time

11.2 Data Processing Capabilities

11.3 Load capacity

11.4 Precision (taking positioning control as an example)

11.5 Dynamic Performance

11.6 Availability

11.7 Compatibility¹⁴

12 Safety and reliability testing¹⁴

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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Design specification for heavy machinery automation system

1 Scope

This document specifies the overall architecture and functional design, overall requirements, design drawings and technical document requirements of heavy machinery automation systems, Hardware requirements, software requirements, human-machine interface (HMI) design requirements, communication and network requirements, and main performance of the automation system, describing the safety and reliability testing methods.

This document is applicable to the design and manufacture of automation systems for heavy machinery such as metallurgical equipment, mining excavators, lifting and transportation equipment, forging equipment, etc.

including but not limited to the following aspects.

- System architecture and functional design;
- Hardware and software technical requirements;
- Performance indicators and test methods;
- Communication and network design;
- Human-machine interface design;
- Environmental and operating conditions.

This document is not applicable to the design and manufacture of portable working machines.

2 Normative references

GB/T 2423.35

GB 3095

GB/T 4728

GB/T 5080.7

GB/T 5226.1

GB/T 5465

GB/T 6988

GB/T 12325

GB/T 12326

GB/T 14048

GB 14050

GB/T 14549

GB/T 15543

GB/T 15969.3

GB/T 15969.8

GB/T 16754

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