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**General technical requirements for intelligent inspection
equipment**

智能检测装备通用技术要求

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Foreword

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

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1 Scope

GB/T 46886-2025 is the Chinese national standard covering the automated inspection machine - the sensing, the decision that classifies a part as good or bad, the false accept and false reject rates that are the only figures that matter, the traceability of each judgement and the retraining when the product changes. First edition. It was issued on 31 December 2025 and has been in force since 1 July 2026, as a first edition. The document is under the responsibility of the China Machinery Industry Federation. 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 system architecture and technical requirements for intelligent testing equipment, and describes the corresponding evaluation methods. This document is applicable to manufacturers, users, research institutes, and other relevant organizations conducting research, development, manufacturing, and testing evaluation of intelligent testing equipment.

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 2423.1-2008 Environmental testing of electrical and electronic products - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Based on sensors and instruments, this research focuses on intelligent detection needs related to process implementation, quality control, equipment operation management, and safety and environmental monitoring. It possesses intelligent features such as integrated perception, autonomous analysis, and real-time feedback, which are used to achieve stable

production operation, ensure product quality, and improve manufacturing efficiency. Online detection equipment for objectives such as efficiency and ensuring service safety.

3.2 repeatability To obtain independent test/measurement results, the same operator, using the same method and the same test or measurement facilities, must complete the test/measurement within a short timeframe. The precision of testing/measuring the same test/measurement object within a given interval.

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