

ICS 35.240.50

CCS L70



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

GB/T 42757-2023

**Evaluation index system and calculation method of intelligent
manufacturing level**

智能制造水平评价指标体系及指数计算方法

Issued on: May 23, 2023

Implemented on: December 1, 2023

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

1 Scope	1
2 Normative references	1
2 Abbreviations	1
5 Comprehensive effect	3
5 Reference	6

Foreword

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1 Scope

GB/T 42757-2023 gives the indicator system and index calculation for measuring the level of intelligent manufacturing. Intelligent manufacturing is the central plank of Chinese industrial policy, with support attached to it, which means enterprises are assessed on it and have every reason to present themselves favourably; an index built on what can be verified rather than on what is claimed is what makes the assessment usable. The standard sets the evaluation indicator framework, covering the supporting capability, the level of application and the comprehensive effect achieved, and then the calculation of the index: the data collection, the weighting of the indicators and the calculation formulae. It took effect on 1 December 2023.

This document specifies the framework of intelligent manufacturing level evaluation indicators, and proposes data collection methods, index weights and index calculation formulas: This document is suitable for evaluating the level of intelligent manufacturing in various provinces (autonomous regions, municipalities) and prefecture-level administrative regions:

2 Normative references

This document has no normative references:

3 Terms and definitions, abbreviations 3:

1 Terms and Definitions The following terms and definitions apply to this document: 3:1:

1 Industrial software industrialsoftware Software dedicated or mainly used in the industrial field to improve the R&D, manufacturing, production management level of industrial enterprises and the performance of industrial equipment: 3:1:

2 In order to achieve the goal of intelligent manufacturing, the degree of management improvement and comprehensive application of personnel, technology, resources,

manufacturing, etc: by enterprises: [Source:

GB/T 39116-2020, 3:1, with modifications] 3:1:

3 Manufacturing equipment with perception, analysis, reasoning, decision-making, control and execution functions: [Source:

GB/T 39561:1-2020, 3:1, with modifications] 3:1:

4 Quantitative value calculated based on multi-dimensional evaluation indicators of intelligent manufacturing supply, support, application, and comprehensive effectiveness: 3:

2 Abbreviations The following abbreviations apply to this document:

4 Evaluation Indicator Framework

1 Indicator framework The intelligent manufacturing level evaluation index system includes four first-level indicators: supply capacity, support capacity, application level, and comprehensive effectiveness: