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

GB/Z 34044.10-2020

**Automation System and Integration Key Performance Indicators
of Manufacturing Operation Management - Part 10: Description
of Data Acquisition Operation Sequence**

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Foreword

The "Key Performance Indicators of Automation System and Integrated Manufacturing Operation Management" is divided into the following parts.

---Part 1.General description, concepts and terminology;

---Part 2.Definition and description;

---Part 3.Interaction and use;

---Part 4.Contact and Subordination;

---Part 10.Description of data acquisition operation sequence.

This guiding technical document is part 10 of "Key Performance Indicators for Automation System and Integrated Manufacturing Operation Management".

The use of translation method in this guiding technical document is equivalent to ISO /T R22400-10.2018 "Automation System and Integrated Manufacturing Operation Management"

Key Performance Indicators of Management Part 10.Description of Data Acquisition Operation Sequence.

This guiding technical document was drafted in accordance with the rules given in GB/T 1.1-2009.

Please note that certain contents of this document may involve patents. The issuing agency of this document is not responsible for identifying these patents.

This guiding technical document was proposed by China Machinery Industry Federation.

This guiding technical document is under the jurisdiction of the National Automation System

and Integration Technical Committee (SAC/TC159).

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Introduction

This technical guidance document describes the procedures for determining key performance indicators (KPIs) through examples. The KPI used is

Given in GB/T 34044.2.

Automation system and integration

Key performance indicators for manufacturing operations management

Part 10. Description of Data Acquisition Operation Sequence

1 Scope

This guiding technical document describes the application of the key performance index formula specified in GB/T 34044.2 to production control and monitoring

the real function. This guiding technical document shall be applied in conjunction with the content of GB/T 34044.2.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 34044.2-2017 Key performance indicators for automation systems and integrated manufacturing operations management Part 2. Definition and description

Description (ISO 22400-2.2014, IDT)

3 Terms and definitions

The following terms and definitions defined in GB/T 34044.2-2017 apply to this document.

ISO and IEC maintain a terminology database for standardization at the following website.

3.1

Planned downtime

The time the unit of work is not scheduled to run.

3.2

Planned downtime

Contains the time during which the unit of work is planned not to run during the scheduled run time.

Note. Figure 3 in GB/T 34044.2-2017 gives a detailed description of the use timeline of working units in the GB/T 34044 series of standards.

3.3

Unit of work log

Data records of unit of work events and their time stamps.

4.1 Example setup

Calculate KPIs for different scopes (including work units and production orders). The KPI is determined by the unit of work log.

This example includes two work units (W1 and W2) in a natural day, as shown in Table 1 and Table 2. Here naturally

Within days, execute two production orders (PO1 and PO2) in this production area. Generate a unit of work log for each unit of work.