

**BUREAU OF INDIAN STANDARDS**

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**IS/ISO 10303-1 : 2024**

**July 2025**

*भारतीय मानक मसौदा*

**औद्योगिक स्वचालन पद्धति और एकीकरण — उत्पाद आंकड़े का निरूपण और आदान-प्रदान  
भाग 1 संछिप्त विवरण और मौलिक सिद्धांत**

*( दूसरा पुनरीक्षण )*

*Draft Indian Standard*

**Industrial Automation Systems and Integration — Product Data Representation and  
Exchange**

**Part 1 Overview and Fundamental Principles**

*( Second Revision )*

ICS 25.040.40

Industrial Automation Systems and Robotics Sectional Committee, PGD 18	<b>Last date for Comment:</b> 30 Days from the date of wide circulation
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**NATIONAL FOREWORD**

This Indian Standard (Part 1) (Second Revision) which is identical with ISO 10303-1 : 2024 'Industrial automation systems and integration — Product data representation and exchange — Part 1: Overview and fundamental principles' issued by the International Organization for Standardization (ISO) will be adopted by the Bureau of Indian Standards on recommendation of the Industrial Automation Systems and Robotics Sectional Committee and approval of the Production and General Engineering Division Council.

This standard was originally published in 1994 which was identical with ISO 10303-1 : 2018 and subsequently revised in 2022. First revision of this standard was identical with ISO 10303-1 : 2021 'Industrial Automation Systems and Integration — Product Data Representation and Exchange Part 1 Overview and Fundamental Principles'. This second revision has been brought out to align it with ISO 10303-1: 2024.

The major changes in this revision is as follows.

- All terms and definitions have been removed from this standard, and have been included in ISO 10303-2;
- STEP extended architecture has been added in Clause 5.2.4.

Other parts in this series are:

A list of all parts in the ISO 10303 series is available from the following URL:

[https://standards.iso.org/iso/10303/tech/step\\_titles.htm](https://standards.iso.org/iso/10303/tech/step_titles.htm)

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

The technical committee has reviewed the provisions of the following International Standards referred in this adopted standard and has decided that they are acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
ISO 10303-2	Industrial automation systems and integration — Product data representation and exchange — Part 2: STEP Vocabulary
ISO/IEC 8824-1	Information technology — Abstract Syntax Notation One (ASN.1) —Part 1: Specification of basic notation

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For more information or copy of ISO standard please write to us at [pgd@bis.gov.in](mailto:pgd@bis.gov.in)