International Standard

ISO 10245-5

# Cranes — Limiting and indicating devices —

## Part 5: Bridge and gantry cranes

*Appareils de levage à charge suspendue — Limiteurs et indicateurs —*

*Partie 5: Ponts roulants et portiques*

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# Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 96, *Cranes*, Subcommittee SC 9, *Bridge and gantry cranes*.

This second edition cancels and replaces the first edition (ISO 10245-5:1995), which has been technically revised.

The main changes are as follows:

— this document has been updated to be consistent with ISO 10245-1;

— the document structure and headers have been rearranged to align with ISO Guide 78 and to be consistent with ISO 10245-2, ISO 10245-3 and ISO 10245-4;

— Figure 1 has been updated to provide more clarification;

— Table 1 has been updated to provide more clarification;

— subclauses 4.4.1 and 4.4.2 have been added;

— Clause 5 has been added;

— Annex A has been added.

A list of all parts in the ISO 10245 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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# Cranes — Limiting and indicating devices —

# Part 5:
# Bridge and gantry cranes

## 1 Scope

This document specifies the requirements for devices that either limit or indicate the loads, motions, performance and environment of bridge and gantry cranes.

The general requirements for limiting and indicating devices for cranes are given in ISO 10245-1.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4306-1, *Cranes — Vocabulary — Part 1: General*

ISO 4306-5, *Cranes — Vocabulary — Part 5: Bridge and gantry cranes*

ISO 8686-1:2012, *Cranes — Design principles for loads and load combinations — Part 1: General*

ISO 10245-1:2021, *Cranes — Limiting and indicating devices — Part 1: General*

## 3 Terms and definitions

For the purposes of this document, the definitions given in ISO 4306-1, ISO 4306-5 and ISO 10245-1 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

**3.1**
**mechanical end stop**
physical barrier to restrict the range of motion

**3.2**
**buffer**
shock-absorbing device

Note 1 to entry: A buffer can be attached to a *mechanical end stop* (3.1) or a moving counterpart or both.

[SOURCE: ISO 4306-1:2026, 8.1.3, modified —Note 1 to entry has been added.]

**3.3**
**slow down limiter**
device used to initiate the speed reduction and limit the speed to the desired level

Note 1 to entry: Slow down limiter can consist of either a physical device or a programmable function.

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