Technical Report

ISO/TR 27245

Second edition
2026-11

Cranes — Tower cranes — International Standards for design, manufacture, use and maintenance requirements and recommendations

Appareils de levage à charge suspendue — Grues à tour — Normes internationales sur les exigences et les recommandations de conception, de fabrication, d'utilisation et de maintenance

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Reference number
ISO/TR 27245:2026(en)

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Published in Switzerland

ISO/TR 27245:2026 • https://standards.iteh.ai/catalog/standards/iso/79f30e7c-ea3e-48cd-a3bf-d4b1ab997b3b/iso-tr-27245-2026

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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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This document was prepared by Technical Committee ISO/TC 96, *Cranes,* Subcommittee SC 7, *Tower cranes.*

This second edition cancels and replaces the first edition (ISO/TR 27245:2007), which has been technically revised.

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The main changes are as follows:

— the list of standards applicable to tower cranes has been updated;

— Annex A has been removed.

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 — Tower cranes — International Standards for design, manufacture, use and maintenance requirements and recommendations

1 Scope

This document provides a list of International Standards that can be completely or partly applied in the design of tower cranes. The bibliography refers to other useful documents (FEM publications, European standards and national standards).

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

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/

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4 International Standards for tower cranes

4.1 Particular International Standards for tower cranes

ISO 4301-1 *Cranes — Classification — Part 1: General*

Abstract: It establishes a general classification of cranes and mechanisms based on the service conditions, mainly expressed by the following:

— the total number of working cycles to be carried out during the specified design life of the crane;

— the load spectrum factor which represents the relative frequencies of loads to be handled;

— the average displacements.

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