



Cranes — Requirements for mechanisms —

Part 1: General

Appareils de levage à charge suspendue — Prescriptions pour les mécanismes —

Partie 1: Généralités

ISO 10972-1

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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 10972-1:1998), which has been technically revised.

The main changes are as follows:

- in [4.4](#), the requirement for cranes intended for transportation of molten metals or similar hazardous materials has been moved to a new [Clause 5](#);
- in [4.8](#), the requirement of rope drives has been revised according to ISO 16625;
- in [4.11](#), the requirement of load lifting attachment has been revised according to EN 13135:2013+A1:2018;
- a new [Clause 5](#) on high-risk applications has been added.

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This document establishes design requirements and guidance that reflect the present state of the art in the field of crane machine design. This document enables cranes to fulfil the essential safety requirements and ensures adequate service of their components. It is acknowledged that new technologies, materials, etc. can bring about new solutions that result in equal or improved safety and durability.