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Second edition  
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# **Cranes — Design principles for loads and load combinations —**

## **Part 5: Overhead travelling and portal bridge cranes**

*Appareils de levage à charge suspendue — Principes de calcul des  
charges et des combinaisons de charges —*

*Partie 5: Ponts roulants et ponts portiques*



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## Foreword

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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 8686-5:1992), which has been technically revised. It has been adapted to technical progress and new requirements and changes in the International Standards referenced by it. The main changes are

- the normative references to ISO 8686-1, ISO 20332 and ISO 12488-1 have been updated, and
- a calculation method for loads caused by skewing for bridge and gantry cranes with rigid or flexible characteristics has been added.

A list of all parts in the ISO 8686 series can be found on the ISO website.