# INTERNATIONAL STANDARD

ISO 8686-3

First edition 1998-11-01

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

# Part 3:

Tower cranes

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

Partie 3: Grues à tour



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# **Foreword**

ISO (the International Anganization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 8686-3 was prepared by Technical Committee ISO/TC 96, Cranes, Subcommittee SC 7, Tower cranes.

Oreview Oericated by this ISO 8686 consists of the following parts, under the general title Cranes — Design principles for load and load combinations:

- Part 1: General
- Part 2: Mobile cranes
- Part 3: Tower cranes
- Part 4: Jib cranes
- Part 5: Overhead travelling cranes and portal bridge cranes

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# Cranes — Design principles for loads and load combinations —

# Part 3:

**Tower cranes** 

## 1 Scope

This part of ISO 8686 establishes the application of ISO 8686-1 for tower cranes, as defined in ISO 4306-3, and gives specific values for factors to be used.

#### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 8686. At the time of the publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 8686 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 4302:1981, Cranes — Wind load assessment.

ISO 4306-1:1990, Cranes — Vocabulary — Part 1: General

ISO 4306-3:1991, Cranes — Vocabulary — Part 3: Tower cranes

ISO 4310:1981, Cranes — Test code and procedures.

ISO 8686-1:1989, Cranes — Design principles for loads and load combinations — Part 1: General.

ISO 12485:—1), Cranes — Stability requirements of tower cranes.

#### 3 Definitions

For the purposes of this part of ISO 8686, the definitions given in ISO 8686-1 apply.

### 4 Symbols and abbreviated terms

The symbols used are described in ISO 8686-1:1989, table 1.

<sup>1)</sup> To be published.