# INTERNATIONAL STANDARD



First edition 1998-11-01

# **Tower cranes — Stability requirements**

Grues à tour - Exigences relatives à la stabilité



Reference number ISO 12485:1998(E)

## Foreword

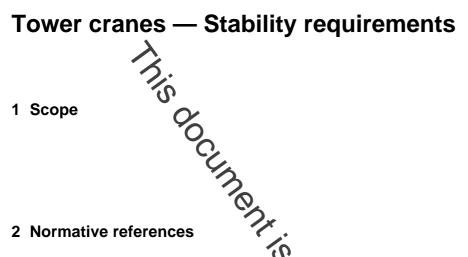
ISO (the International organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee 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 International Standards adopte. rculated to the member bodies for voting. Jandard requires approval by at least 75 % of the avote. International Standard ISO 12485 was prepared by Occhnical ISO/TC 96, *Cranes*, Subcommittee SC 7, *Tower cranes*, *Nithin Communicational Standard ISO 12485 was prepared by Occhnical Standard ISO 1248* 

© ISO 1998

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization Case postale 56 • CH-1211 Genève 20 • Switzerland Internet iso@iso.ch

Printed in Switzerland



The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of the publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on the International Standard 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 4306-3:1991, Cranes - Vocabulary - Part 3: Tower cranes

ISO 8686-3:—<sup>1)</sup>, Cranes — Design principles for loads and load combinations — Part 3: Tower cranes.

### **3 Definitions**

For the purposes of this International Standard, the definitions given in ISO 4006-3 apply.

#### 4 Stability

#### 4.1 Calculations

**4.1.1** A crane is said to be stable when the algebraic sum of the stabilizing moments is greater than or equal to the sum of the overturning moments.

**4.1.2** Calculations shall be made to verify the stability of the crane by computing the sum of the overturning moments using the values given in table 1.

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