

First edition  
2005-11-01

---

---

## **Cranes — Jib cranes — International Standards for design, manufacturing, use and maintenance requirements and recommendations**

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



Reference number  
ISO/TR 25599:2005(E)

© ISO 2005

**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

This document is a preview generated by EVS

© ISO 2005

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 either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

## 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 (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

In exceptional circumstances, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example), it may decide by a simple majority vote of its participating members to publish a Technical Report. A Technical Report is entirely informative in nature and does not have to be reviewed until the data it provides are considered to be no longer valid or useful.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO/TR 25599 was prepared by Technical Committee ISO/TC 96, *Cranes*, Subcommittee SC 8, *Jib Cranes*.

This document is a preview generated by EVS

# Cranes — Jib cranes — International Standards for design, manufacturing, use and maintenance requirements and recommendations

## 1 Scope

This Technical Report collects the design, manufacturing, use and maintenance requirements and recommendations for jib cranes in ISO and IEC International Standards.

## 2 Requirements

### 2.1 Particular ISO International Standards for jib cranes

The International Standards marked with an x are also applicable for cranes in use.

#### ISO 4301-1

*Cranes and lifting appliances — Classification — Part 1: General*

Abstract: Establishes a general classification of cranes based on the number of operating cycles to be carried out during the expected life of the crane and a load spectrum factor which represents a nominal state of loading. Classification considers only the operating conditions which are independent of the type of crane and the way it is driven.

#### ISO 4301-4

*Cranes and related equipment — Classification — Part 4: Jib cranes*

Abstract: Establishes the classification of cranes based on the number of operating cycles to be carried out during the expected life of the appliance and its mechanisms, and a load spectrum factor which represents the nominal state of loading. Guidance as to typical classifications is given.

#### ISO 4302

*Cranes — Wind load assessment*

Abstract: Gives a simplified method of calculation and assumes that the wind blows horizontally from any direction, that the wind blows at a constant velocity and that there is a static reaction to the loadings applying to the crane structure. It includes built-in allowances for the effects of gusting (rapid changes in wind velocity) and for dynamic response.

#### ISO 4304

*Cranes other than mobile and floating cranes — General requirements for stability*

Abstract: Specifies the conditions to be met when verifying, by calculation, the stability of all crane types defined in ISO 4306-1 that are subject to tilting. It assumes that they are standing on a firm, level supporting surface or track. The sliding of cranes on their tracks is not covered.