
Cranes — Safe use —

**Part 4:
Jib cranes**

Appareils de levage à charge suspendue — Sécurité d'emploi —

Partie 4: Grues à flèche

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
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Foreword

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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.

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 12480-4 was prepared by Technical Committee ISO/TC 96, *Cranes*, Subcommittee SC 8, *Jib cranes*.

ISO 12480 consists of the following parts, under the general title *Cranes — Safe use*:

- *Part 1: General*
- *Part 3: Tower cranes*
- *Part 4: Jib cranes*

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Cranes — Safe use —

Part 4: Jib cranes

1 Scope

This part of ISO 12480 establishes required practices for the safe use of jib cranes as defined in ISO 4306-1. It is intended to be used in conjunction with ISO 12480-1.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

ISO 12480-1:1997, *Cranes — Safe use — Part 1: General*

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3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 12480-1 apply.

4 Management of crane operations

4.1 Safe system of work

All crane lifting operations shall be carried out in accordance with a safe system of work and under the control of an appointed person as defined in ISO 12480-1.

A safe system of work shall be prepared by the user organization in accordance with ISO 12480-1:1997, 4.1, and communicated to all personnel involved in the operation.

In the case of repetitive routine operations, a single generic safe system of work may be adequate, or a few systems may cover a range of operations. Documented safe systems of work shall be prepared for complex lifting operations or the lifting of persons.

All personnel involved in a lifting operation shall be trained in the use of the appropriate safe system of work and, in particular, their specific duties and responsibilities.

In certain crane operating areas involving a number of cranes or associated activities, such as loading/unloading terminals or congested areas of factories, consideration should be given to restricting the access of vehicular and pedestrian traffic to the area.

4.2 Control of crane operation

The crane operation shall be under the overall control of an appointed person in accordance with ISO 12480-1:1997, 4.2, who shall have the authority to stop the operation.

The appointed person could have control of a number of cranes undertaking routine repetitive operations, in which case the appointed person may delegate authority to a signaller or signallers, who shall have the authority to stop the operation. In the case of simple operations where a signaller is not required, the crane operator may have the delegated authority.

4.3 Contractual considerations

Contractual considerations shall be in accordance with ISO 12480-1:1997, 4.3.1 and 4.3.2.

5 Selection, responsibilities and minimum requirements of personnel

5.1 General

The general requirements shall be as specified in ISO 12480-1:1997, 5.1.

5.2 Duties of appointed person

The duties of the appointed person are set out in ISO 12480-1:1997, 5.2.

The appointed person shall arrange the programme of work such that, in the appointed person's judgement, no operator has to undertake a period of work that could affect the operator's ability to carry out his/her duties. Environmental conditions shall also be taken into account.

Control of certain aspects of the crane operation may be delegated to the signaller or the crane driver, but the overall responsibility for the operation shall remain with the appointed person.

5.3 Requirements of personnel

The duties and requirements of personnel are set out in ISO 12480-1:1997, 5.2 to 5.7.

All personnel shall be trained and competent to undertake their duties.

6 Safety

The appointed person shall be given the necessary authority and resources to ensure that appropriate equipment and systems to achieve safety are in use.

The appointed person shall be responsible for implementing the requirements of ISO 12480-1:1997, 6.2 to 6.5.

7 Selection and placement of cranes

The owner of the crane or the user organisation is responsible for the selection and placement of the crane.

8 Lifting of persons

Except in emergency situations, such as the lifting of injured personnel, the raising and lowering of personnel by cranes shall only be undertaken in exceptional circumstances when it is not possible to gain access by less hazardous means and where permitted under national regulations. Such operations require special equipment, careful planning and execution, as set out in ISO 12480-1:1997, Clause 13.

9 Pre-use inspections

Pre-use inspections shall be carried out at the start of each shift by the operator in accordance with ISO 12480-1:1997, 10.2.3.

10 Maintenance, inspection and testing of cranes

The owner of the crane is responsible for the maintenance, inspection and testing of the crane in accordance with ISO 12480-1:1997, 10.2.3 to 10.2.5 and 10.5, and as required by national legislation.

The owner shall keep records of all maintenance, inspection and testing undertaken on the crane and its components throughout the life of the crane, commencing with the original test certificates.

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