International Standard

ISO 9374-4

Cranes — Information to be provided —

Part 4: Jib cranes

Appareils de levage à charge suspendue — Informations à fournir —

Partie 4: Grues à flèche

Second edition
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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 96, *Cranes*, Subcommittee SC 8, *Jib cranes*.

This second edition cancels and replaces the first edition (ISO 9374-4:1989), which has been technically revised.

The main changes are as follows:

— Clause 3 has been added;

— Figures 1 to 3 have been redrawn;

— Annex A has been rearranged.

A list of all parts in the ISO 9374 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Cranes — Information to be provided —

Part 4:
Jib cranes

1 Scope

This document specifies information to be provided by:

a) a purchaser in enquiring about or ordering a jib crane;

b) a manufacturer in tendering for or supplying a jib crane.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 4306-4, *Cranes — Vocabulary — Part 4: Jib cranes*

ISO 9374-1, *Cranes — Information to be provided — Part 1: General*

ISO 8686-4, *Cranes — Design principles for loads and load combinations — Part 4: Jib cranes*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4306-1 and ISO 4306-4 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/

— IEC Electropedia: available at https://www.electropedia.org/

4 Information to be provided by the purchaser with the enquiry or order

The purchaser should provide the information given in Annex A to enable the crane manufacturer to offer or to supply the most suitable jib crane and equipment to satisfy the duty requirements and service conditions.

5 Information to be provided by the manufacturer

5.1 Technical information

The information provided by the manufacturer shall include:

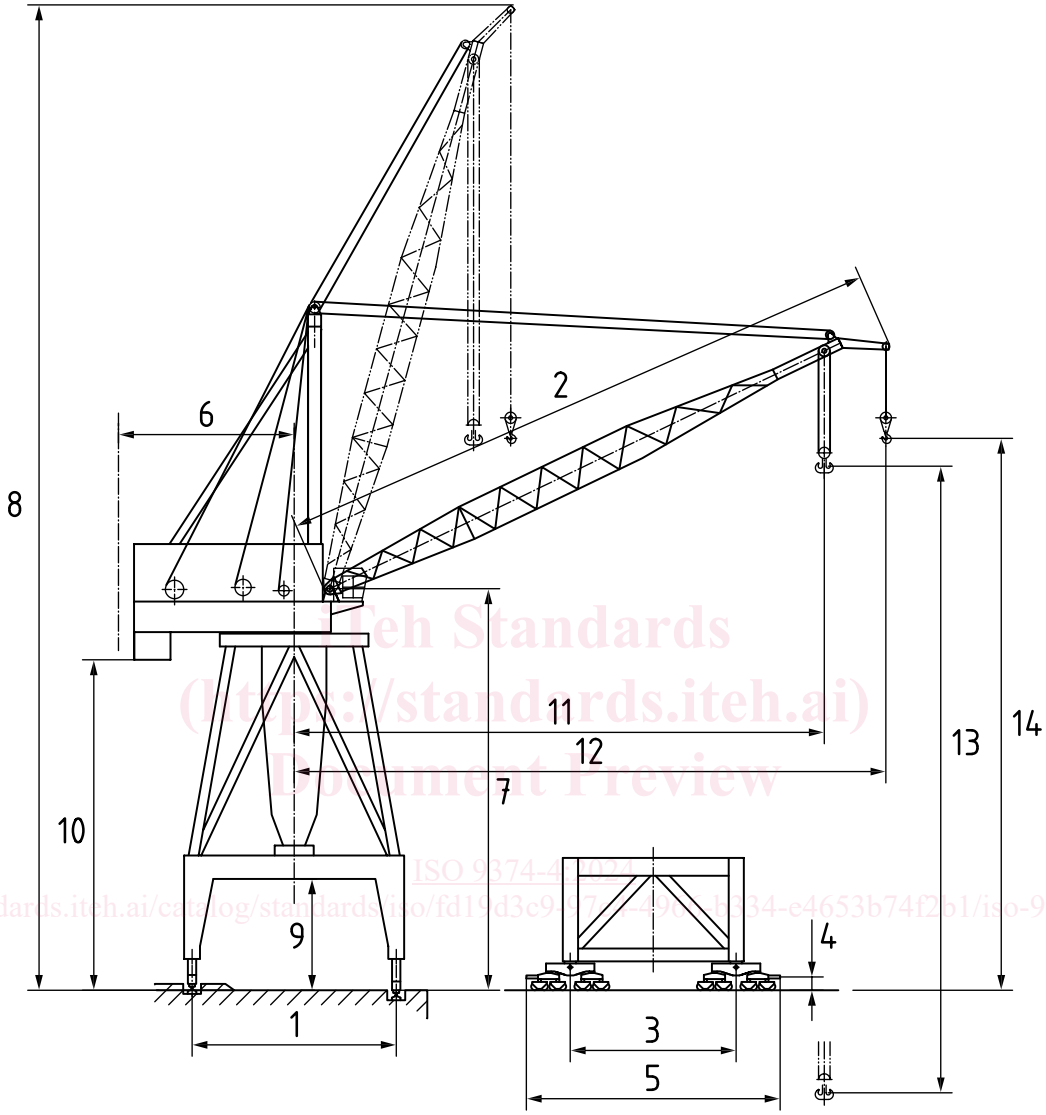
a) the information provided by the manufacturer in accordance with ISO 9374-1;

b) erection information, when requested.

The manufacturer shall supply all loads applied by the crane in accordance with ISO 8686-4.

5.2 Dimensions

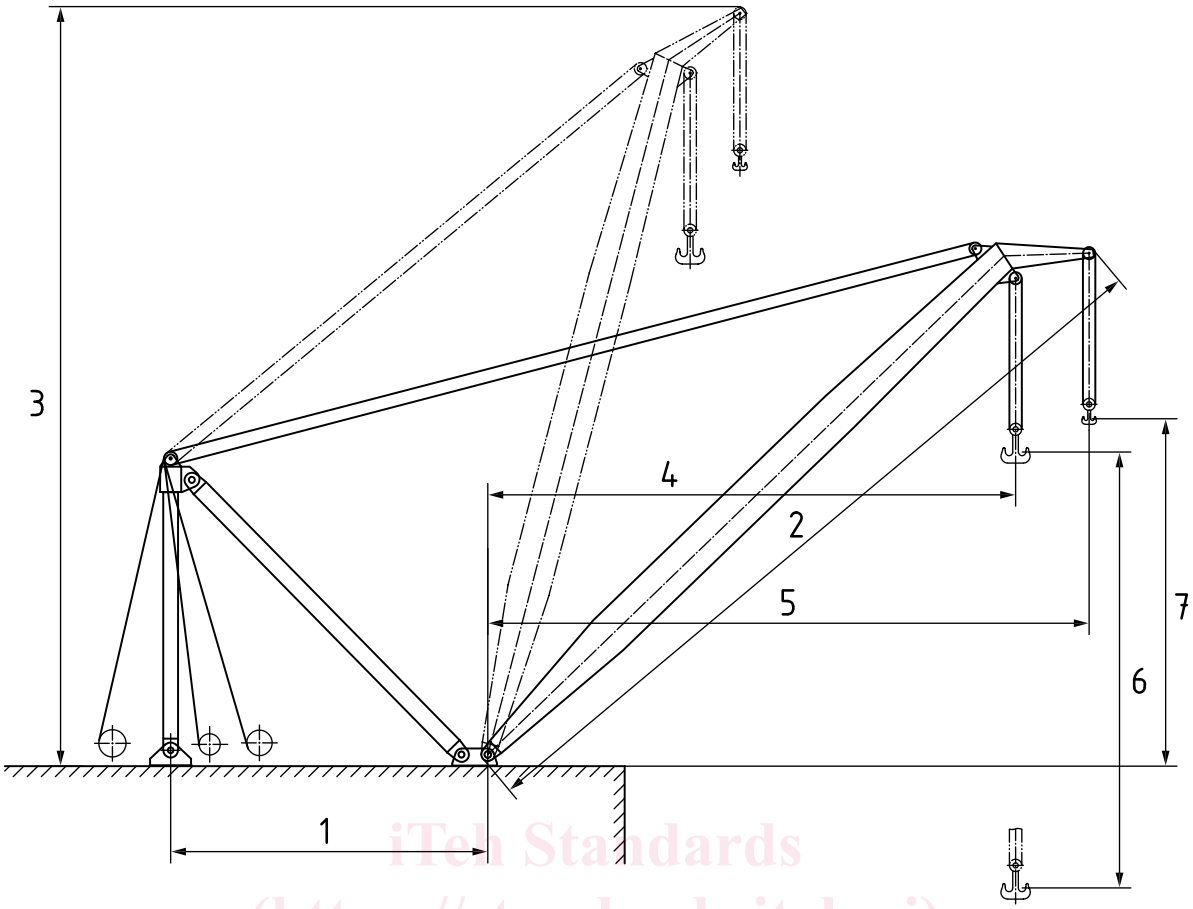
The manufacturer shall provide the necessary dimensions to install and use the crane. Figures 1 to 3 show examples of drawings with minimum dimensions.



Key

1	span	8	clearance height of boom
2	boom length	9	clearance under portal
3	crane wheel base	10	clearance under rotating platform
4	buffer height	11	working radius range for main hook
5	buffer to buffer (buffer uncompressed)	12	working radius range for auxiliary hook
6	tailswing radius	13	hook height range for main hook
7	boom hinge elevation above rail	14	hook height range for auxiliary hook

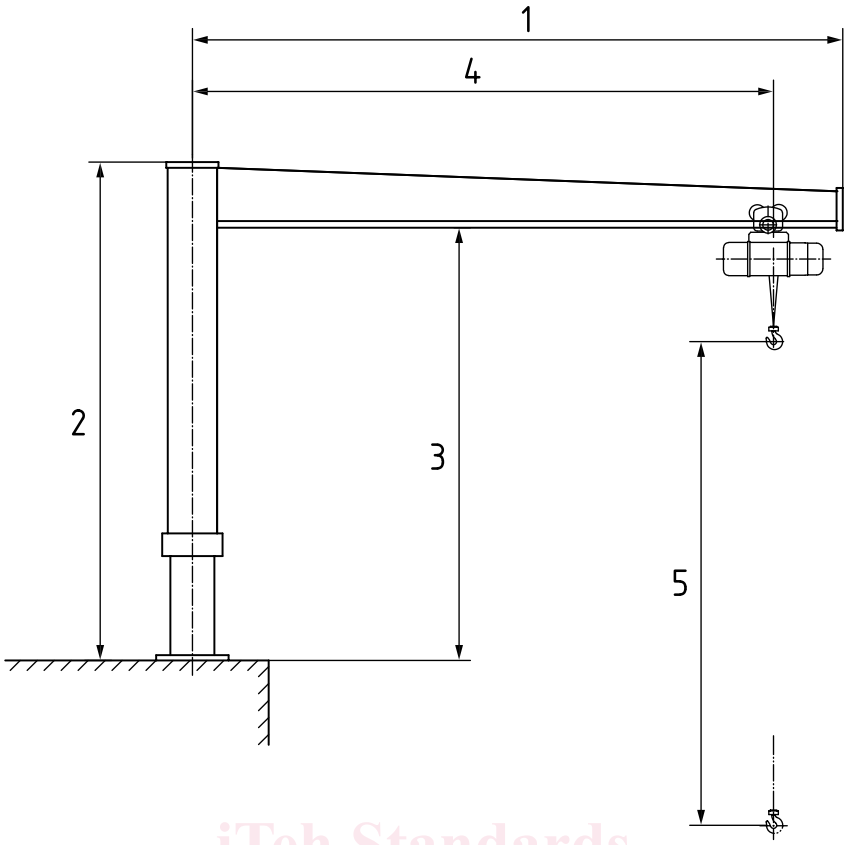
Figure 1 — Examples of dimensions for portal or semi-portal slewing crane with single boom



Key

1 distance from boom hinge to mast leg
2 boom length
3 clearance height of boom
4 working radius range for main hook
5 working radius range for auxiliary hook
6 hook height range for main hook
7 hook height range for auxiliary hook

Figure 2 — Examples of dimensions for derrick crane



Key

1	cantilever length	4	working radius range
2	clearance height of crane	5	hook height range
3	clearance under cantilever		

Figure 3 — Examples of dimensions for cantilever crane

Annex A
(informative)

Sample format and information to be provided by the purchaser with the enquiry or order

See Tables A.1 to A.6.

Table A.1 — Common information to be provided by the purchaser

Purchase enquiry or order form			
Short description of works:			
Required rated capacity (payload plus non-fixed lifting attachment)			
All required rated capacities should be indicated as follows:			
a) Main hoist:			
Maximum capacity and radius:	t (load) at	m (radius)	
Maximum radius and capacity:	m (radius) at	t (load)	
b) Auxiliary hoist (if required):			
Maximum capacity and radius:	t (load) at	m (radius)	
Maximum radius and capacity:	m (radius) at	t (load)	
Required dimension			
Load-lifting height:			m
Load-lowering depth:			m
Maximum radius:			m
Minimum radius:			m
Slewing range (only for slewing crane):			°
Maximum allowable tailswing radius (only for slewing crane):			m
Distance of travelling (only for travelling crane):			m
Maximum overall height of crane (if required):			m
Clearance below boom (if required):	m at radius		m

Table A.1 *(continued)*

Load-lifting attachment			
☐ hook	☐ grab	☐ container spreader	
☐ magnet	☐ other, describe further		
Special speed requirements			
Operating speeds	**Nominal speed (rated load)**	**Slow or creep speed (if required)**	**Maximum speed with reduced load (if required)**
Main hoist:	..... m/min	..... m/min	..... m/min
Auxiliary hoist:	..... m/min	..... m/min	..... m/min
Luffing (if required):	..... m/min	..... m/min	..... m/min
Traverse (if required):	..... m/min	..... m/min	..... m/min
Slewing (if required):	..... rpm	..... rpm	..... rpm
Travel:	..... m/min	..... m/min	..... m/min
Any special requirements:			
.....			
.....			
.....			
.....			
.....			