INTERNATIONAL STANDARD

ISO 9374-4

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Cranes — Information to be provided —

Part 4 :
Jib cranes

Appareils de levage à charge suspendue — Informations à fournir —
Partie 4 : Grues à flèche

Reference number
ISO 9374-4 : 1989 (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 (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 9374-4 was prepared by Technical Committee ISO/TC 96, *Cranes*.

ISO 9374 will consist of the following parts, under the general title *Cranes — Information to be provided*:

— *Part 1: General*

— *Part 2: Mobile cranes*

— *Part 3: Tower cranes*

— *Part 4: Jib cranes*

— *Part 5: Overhead travelling cranes and portal bridge cranes*

Annex A forms an integral part of this part of ISO 9374.

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Cranes — Information to be provided —

Part 4 :
Jib cranes

1 Scope

This part of ISO 9374 specifies information to be provided

a) by a purchaser in enquiring for or ordering a jib crane; and

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

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 9374. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 9374 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 4301-1 : 1986, *Cranes and lifting appliances — Classification — Part 1: General.*

ISO 4301-4 : 1989, *Cranes and related equipment — Classification — Part 4: Jib cranes.*

ISO 7363 : 1986, *Cranes and lifting appliances — Technical characteristics and acceptance documents.*

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

The purchaser shall 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, including clearance requirements based on figure 1.

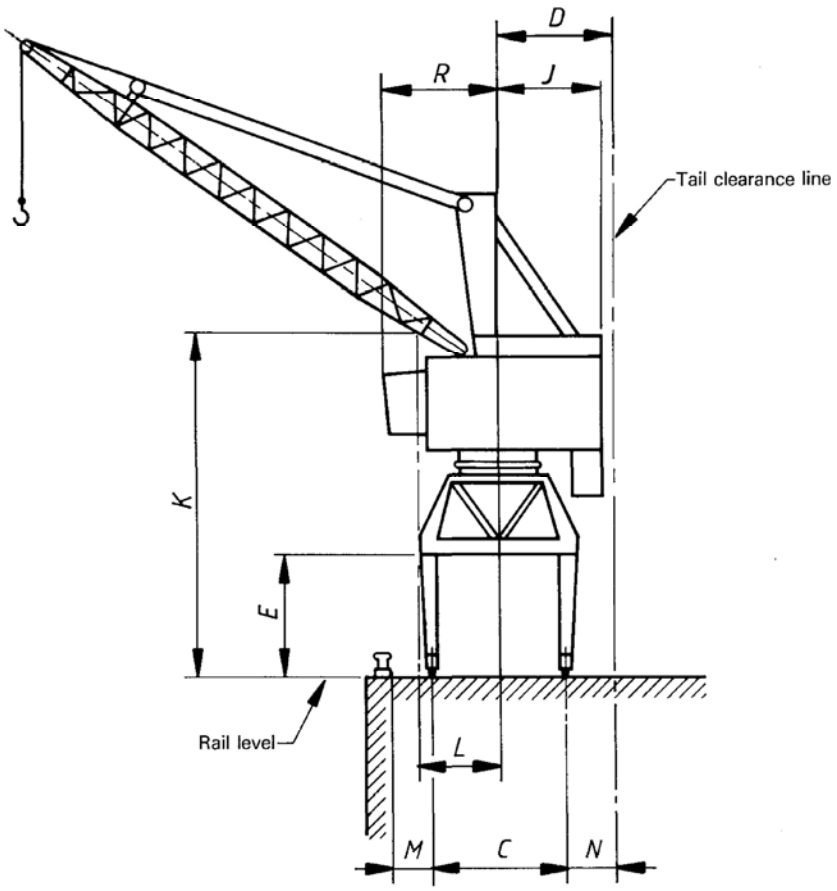
4 Information to be provided by the manufacturer

4.1 Technical information

The manufacturer shall provide technical information and test certificates for the crane to facilitate its installation, testing and use in accordance with ISO 7363 and as appropriate for the appliance.

4.2 Dimensions

The manufacturer shall give the dimensions shown in figure 2.



C is the distance between tracks

D is the tail clearance

E is the minimum portal height

J is the maximum permissible tail radius

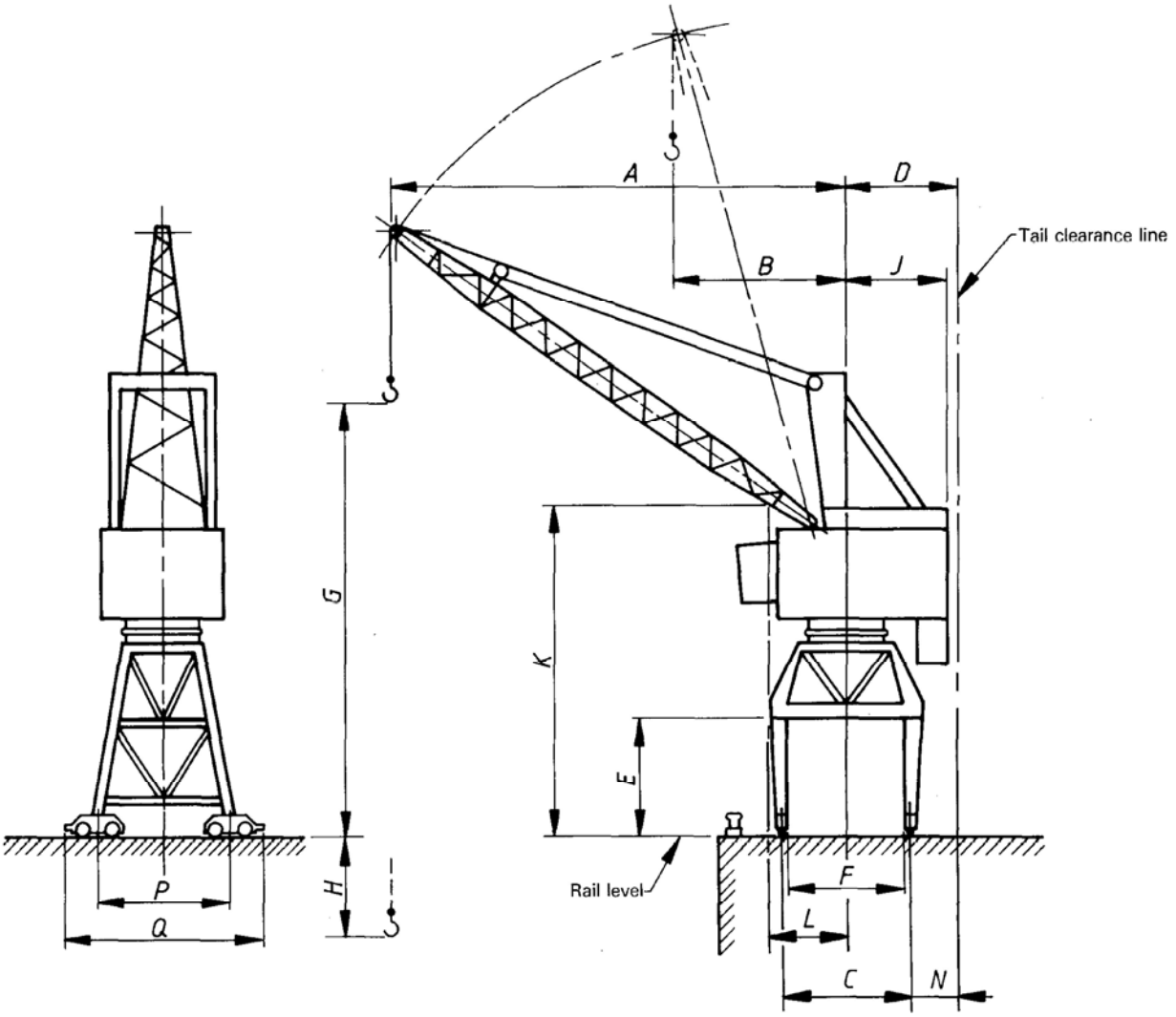
K is the minimum clear height to the underside of the jib at distance L from the centre of the crane

M is the distance between the track and any obstruction on the dock side

N is the distance between the track and the tail clearance line

R is the distance from the centreline to the maximum protrusion of the crane body

Figure 1 — Crane dimensions to be given by the purchaser



A is the maximum radius of the jib

B is the minimum radius of the jib

F is the width under the portal

G is the maximum hook height above rail level

H is the maximum distance of the hook below rail level

P is the distance between bogie centres

Q is the distance across the bogies

NOTE — See figure 1 for the definitions of the other dimensions to be given.

Figure 2 — Crane dimensions to be given by the manufacturer

Annex A
(normative)

Format for information to be provided by purchaser with enquiry or order

Purchase enquiry or order form

Name of company: .....

Address: .....

Name of person who may be contacted: .....

Telephone number: .....

Crane to be installed in: ..... (town) ..... (country)

Number of cranes required: .....

Rated lifting capacity

a) Main hoist

Maximum load and radius at that load: ..... t at: ..... m

Maximum outreach and load at that outreach: ..... m with: ..... t

b) Auxiliary hoist

Maximum load and radius at that load: ..... t at: ..... m

Maximum outreach and load at that outreach: ..... m with: ..... t

Vertical movement of hook required

a) Main hoist

Above rail level: ..... mm

Below rail level: ..... mm

b) Auxiliary hoist

Above rail level: ..... mm

Below rail level: ..... mm

Height of driver's position: ..... mm

Rail centres (if applicable): ..... mm

Description of type of crane: .....

Classification to be used for the crane as a whole and for each mechanism as a whole to enable the crane and each mechanism to be matched to the duty for which it is required (in accordance with ISO 4301-1 and ISO 4301-4). (Alternatively, the classification of the crane and its mechanisms shall be agreed between the manufacturer and the purchaser.): .....

Power supply system

a) Cable drum or current collector system (specify): .....

b) Length of cable: ..... m

Power supply

a) Voltage: V

b) Phases: .....

c) Frequency: ..... Hz

d) Conductors: .....

e) Is there a neutral?: .....

If so, is it earthed?: .....

Type of load: ..... Material to be handled: .....

Type of hook or lifting device: .....

General state of atmosphere or climate (to include, for example, wind speed, rainfall, and pollution): .....

Air temperature conditions

a) ambient: ..... °C

b) maximum: ..... °C

c) minimum: ..... °C

Special service conditions

Specify any special service conditions that apply, typically:

a) use in hazardous gases, vapours, solids or volatile liquids;

b) use for processes such as galvanizing, pickling and hot dipping;

c) use in saline atmospheres, when the degree of exposure shall be stated;

d) the need for special precautions against termites;

e) any physical obstructions not apparent from the dimensions provided for clearances;

f) any variation in electrical supply greater than 6 % of nominal voltage;

g) any other conditions.

Types of rails: .....

Allowable wheel loading: ..... N

Allowable load per metre of rail: ..... N

Limit switches

State any special limit switching requirements.

Operating speeds

	Normal speed	**Slow or creep speed (if required)**
Main hoist:	..... m/min	..... m/min
Auxiliary hoist:	..... m/min	..... m/min
Traverse:	..... m/min	..... m/min
Travel:	..... m/min	..... m/min
Slew:	..... m/min	..... m/min
Luff (time for maximum radius):	..... m/min	..... m/min

Any special requirements, statutory or technical: .....

.....

.....

.....

Any clearance requirements (see figure 1):

J: .....

K: .....

E: .....

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Descriptors : handling equipment, lifting equipment, cranes (hoists), technical documents.

Price based on 5 pages