INTERNATIONAL STANDARD

ISO 11630

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Cranes — Measurement of wheel alignment

Appareils de levage à charge suspendue — Mesure de l'alignement des galets

Reference number
ISO 11630:1997(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 voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 11630 was prepared by Technical Committee ISO/TC 96, *Cranes*, Subcommittee SC 4, *Test methods*.

Annex A of this International Standard is for information only.

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Cranes — Measurement of wheel alignment

1 Scope

This International Standard establishes requirements for methods of measuring the alignment of crane wheels in accordance with ISO 4310, ISO 9373 and ISO 12488-1.

The procedures given are based on the use of optical methods for measurement, however this International Standard permits the use of other methods which ensure at least an equivalent accuracy of measurements.

This International Standard applies to measurements on four-wheel cranes which move on rails (except railway cranes).

NOTE — Procedures for measurements on cranes with more than four wheels are intended for the next edition of this International Standard.

2 Normative references

The following standards contain provisions, which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreement based on this 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 4310:1981, *Cranes — Test code and procedures.*

ISO 9373:1989, *Cranes and related equipment — Accuracy requirements for measuring parameters during testing.*

3 Measurement of the alignment of crane wheels in plan view

The measurement of the alignment of wheels on cranes should proceed by the following steps:

a) select the baseline for the coordinate system;

b) establish the geodetic rectangle;

c) measure distances from the sides of the geodetic rectangle to the wheels;

d) calculate actual deviations of the wheels in plane from the design position.

Measurements shall be made in accordance with ISO 4310 and ISO 9373. See also ISO 12488-1.