

---

---

## **Cranes — Measurement of velocity and time parameters**

*Appareils de levage à charge suspendue — Mesurage des paramètres  
de vitesse et de temps*



**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 2003

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.

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 13202 was prepared by Technical Committee ISO/TC 96, *Cranes*, Subcommittee SC 4, *Test methods*.

This document is a preview generated by EVS

# Cranes — Measurement of velocity and time parameters

## 1 Scope

This International Standard establishes guidelines for the measurement of the velocity and time parameters of cranes as defined in ISO 7363.

This International Standard is complementary to ISO 4310 and covers the types of crane specified therein.

## 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 4310, *Cranes — Test code and procedures*

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

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

## 3 Test conditions

Test conditions shall meet the requirements of ISO 4310.

Before conducting the test, crane systems and mechanisms shall be checked for proper functioning while running without load.

A crane presented for testing shall be equipped in accordance with the manufacturer's specification and shall comply with ISO 7363.

## 4 Measuring apparatus and their accuracy

Measuring apparatus used in crane tests to determine motion velocity and time parameters shall be selected in accordance with the accuracy required in ISO 9373 and in compliance with national specifications.

The number of measurements and the allowable tolerance on the values of motion velocity and time parameters measured during testing shall meet the requirements of ISO 9373.

## 5 Test procedure

Before taking measurements of velocity and time parameters, trial cycles should be carried out to ensure that the elements (components) of the crane perform in the manner required for the test.