

---

---

**Short link chains for lifting purposes —  
Grade VH, fine tolerance for manually  
operated chain hoists**

*Chaînes de levage à maillons courts — Classe VH, tolérance fine pour  
palans manuels à chaînes*



**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



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2008

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

## Contents

Page

Foreword.....	iv
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions.....	1
4 General conditions of acceptance .....	1
5 Dimensions.....	2
6 Material and manufacture .....	5
7 Verification of safety requirements.....	8
8 Marking .....	9
9 Manufacturer's certificate .....	10
10 Information for assembly into the hoist and for use.....	10
Annex A (normative) Bases for the calculation of mechanical properties and tolerances on dimensions .....	11
Bibliography .....	13

## 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 16872 was prepared by Technical Committee ISO/TC 111, *Round steel link chains, chain slings, components and accessories*, Subcommittee SC 1, *Chains and chain slings*.

This document is a preview generated by EVS

# Short link chains for lifting purposes — Grade VH, fine tolerance for manually operated chain hoists

## 1 Scope

This International Standard specifies the requirements for Grade VH, fine-tolerance hoist chains, for use as load chains in manually operated chain hoists and consisting of round steel short link chains, electrically welded and heat treated, tested to and compliant with the ISO 1834 general conditions of acceptance.

NOTE Butt welding and flash butt welding are defined in ISO 4063.

The range of nominal sizes of hoist chains covered by this International Standard is from 3 mm to 13 mm, for use in the temperature range  $-10^{\circ}\text{C}$  to  $150^{\circ}\text{C}$ .

## 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 148-1, *Metallic materials — Charpy pendulum impact test — Part 1: Test method*

ISO 643, *Steels — Micrographic determination of the apparent grain size*

ISO 1834, *Short link chain for lifting purposes — General conditions of acceptance*

ISO 6507-1, *Metallic materials — Vickers hardness test — Part 1: Test method*

ISO 7500-1:2004, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1834 and the following apply.

### 3.1

#### gauge length

specified multiple pitch length of chain

## 4 General conditions of acceptance

The hoist chain shall comply with the requirements of ISO 1834 as well as those of this International Standard.