

Cranked-link drag chains of welded construction, attachments and sprockets

ICS 21.220.30

National foreword

This British Standard reproduces verbatim ISO 6971:2002 and implements it as the UK national standard.

The UK participation in its preparation was entrusted to Technical Committee MCE/1, Chains and chain wheels for power transmission and conveyors, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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This British Standard, having been prepared under the direction of the Engineering Sector Policy and Strategy Committee, was published under the authority of the Standards Policy and Strategy Committee on 11 October 2002

Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to iv, pages 1 to 14, an inside back cover and a back cover.

The BSI copyright date displayed in this document indicates when the document was last issued.

Amendments issued since publication

Amd. No.	Date	Comments

© BSI 11 October 2002

ISBN 0 580 40547 8

INTERNATIONAL STANDARD

ISO
6971

Second edition
2002-09-15

Cranked-link drag chains of welded construction, attachments and sprockets

*Chaînes racleuses en acier, de construction soudée, à maillons coudés,
plaques-attaches et roues dentées*



Reference number
ISO 6971:2002(E)

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 6971 was prepared by Technical Committee ISO/TC 100, *Chains and chain wheels for power transmission and conveyors*.

This second edition cancels and replaces the first edition (ISO 6971:1982), which has been technically revised. In particular, the references and terminology have been revised to bring them into conformity with other International Standards and current practice. Furthermore, in clause 5, the pitch line clearance of sprockets has been altered for consistency with current industry practice.

Cranked-link drag chains of welded construction, attachments and sprockets

1 Scope

This International Standard specifies the characteristics of cranked-link¹⁾ drag chains of welded construction suitable for conveying bulk materials, together with associated attachments and chain sprockets. The chain dimensions specified in this International Standard ensure interchangeability of both complete chains and individual links for repair purposes.

This International Standard is applicable to sprockets with between 5 and 20 teeth.

Specifications are also given for five types of attachment for use with the conveyor chains conforming to this International Standard.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 286-2, *ISO system of limits and fits — Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts*

3 Chains

3.1 General

The chain is designed to operate with the closed end of each link in the forward direction to produce the maximum scraping action against the material to be conveyed.

3.2 Nomenclature

The nomenclature of the chains and their component parts is specified in Figures 1 and 2.

3.3 Dimensions

Conveyor chain dimensions shall conform to those given in Table 1 (see Figure 3). Both maximum and minimum dimensions are specified to ensure interchangeability of links made by different chain manufacturers. Although these represent limits for interchangeability, they shall not necessarily be regarded as limits of tolerance for manufacture.

1) In the USA, the term “offset sidebar” is used in place of “cranked link”.