

INTERNATIONAL STANDARD

ISO
1275

Third edition
1995-03-01

Double-pitch precision roller chains and sprockets for transmission and conveyors

*Chaînes de précision à rouleaux à pas double et roues dentées pour
transmission et manutention*



Reference number
ISO 1275:1995(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 1275 was prepared by Technical Committee ISO/TC 100, *Chains and chain wheels for power transmission and conveyors*.

This third edition cancels and replaces the second edition (ISO 1275:1984), of which it constitutes a technical revision.

Annex A forms an integral part of this International Standard.

© ISO 1995

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 the publisher.

International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Introduction

This revised International Standard has been established to cover a range of chains used in the majority of countries in the world by unifying dimensions, strengths and other data from current national standards.

The principal feature of these chains is their derivation from the ISO 606 series by using the standard round parts in links that are double the standard pitch.

Chains have been adopted from the ANSI, BSI and DIN double-pitch series to form a range from 25,4 mm to 101,6 mm pitch. Versions of chains are included with normal and with thicker plate materials, with the alternatives of smaller or larger rollers, as well as a range of attachments and sprockets.

The dimensions of the chains provide for complete interchangeability of individual links, and the sprocket dimensions allow complete interchangeability of chains of the same pitch.

Double-pitch precision roller chains and sprockets for transmission and conveyors

1 Scope

This International Standard specifies requirements for double-pitch precision roller chains suitable for the mechanical transmission of power and for conveyors, together with those for their associated sprockets. It covers dimensions, tolerances, length measurement, proof testing and minimum tensile strengths.

These double-pitch chains have been derived from some of the short-pitch transmission precision roller chains covered by ISO 606 having certain common dimensions but of double the pitch.

The chains are intended for use under less onerous conditions with respect to speed and power transmitted than are the base chains from which they are derived.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publi-

cation, the editions indicated were valid. All standards are subject to revision, and parties to agreements 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 286-2:1988, *ISO system of limits and fits — Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts*.

ISO 606:1994, *Short-pitch transmission precision roller chains and chain wheels*.

3 Transmission chains

3.1 Nomenclature of assembly and components

The nomenclature of the chain assembly and its component parts is illustrated in figures 1 and 2; the figures do not define the actual form of the chain plates.

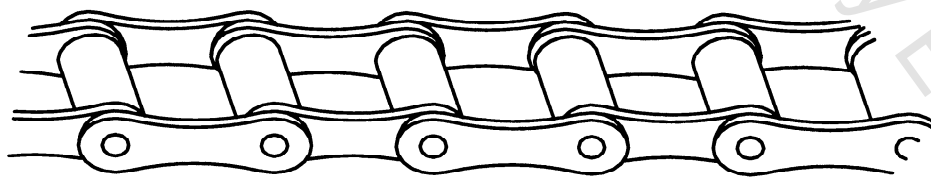


Figure 1 — Chain assembly