
International Standard



4348

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Flat-top chains and associated chain wheels for conveyors

Chaînes charnières et roues pour convoyeurs

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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 developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 4348 was developed by Technical Committee ISO/TC 100, *Chains and chain wheels for power transmission and conveyors*.

This second edition was submitted directly to the ISO Council, in accordance with clause 6.11.2 of part 1 of the Directives for the technical work of ISO. It cancels and replaces the first edition (i.e. ISO 4348-1978), which had been approved by the member bodies of the following countries :

Australia	Italy	Sweden
Belgium	Japan	Turkey
Czechoslovakia	Korea, Rep. of	United Kingdom
Finland	Mexico	USA
France	Netherlands	USSR
Germany, F. R.	Romania	Yugoslavia
India	South Africa, Rep. of	
Ireland	Spain	

No member body expressed disapproval of the document.

Flat-top chains and associated chain wheels for conveyors

0 Introduction

This International Standard lays down the dimensions of a selected range of flat-top chains which are manufactured in various countries and which are in world-wide use. Flat-top chains are also known as "slat band" and "table top" chains.

It should be noted that the specified dimensions for the chains are based upon inch units.

1 Scope and field of application

This International Standard specifies the characteristics of flat-top chains and associated chain wheels as used principally on conveyors for bottles. It covers dimensions, limits for interchangeability, measuring loads and minimum ultimate tensile strengths.

2 Chains

2.1 Nomenclature

This International Standard specifies two types of chain :

- single-hinge (see figure 1 and tables 1 and 1M);
- double-hinge (see figure 4 and tables 2 and 2M).

2.2 Designation

Flat-top chains shall be designated by the letter C followed by the nominal slat width expressed in units of 0.25 in, followed by

S or D depending upon whether the chains are of single-hinge or double-hinge design.

Example :

C12S designates a single-hinge chain with a nominal slat width of 3.0 in.

2.3 Dimensions

2.3.1 The chains shall conform to the dimensions given in tables 1, 1M, 2 and 2M. Maximum and minimum dimensions are specified to ensure interchangeability of slats produced by different manufacturers.

2.3.2 Hinge clearance dimensions e and f are both based on the maximum values of t and d_1 as given in tables 1 and 1M, and must be recalculated for any other values.

The basis for the calculations shall be that no part of an adjacent slat may come within the swept clearance k as shown in figures 2 and 3.

2.3.3 The dimensions d_2 and d_3 given in tables 1 and 1M ensure free movement of the articulating curls around the bearing pin.

The methods of torsional and axial bearing pin restraint within the fixed curls shall be at the manufacturer's discretion.

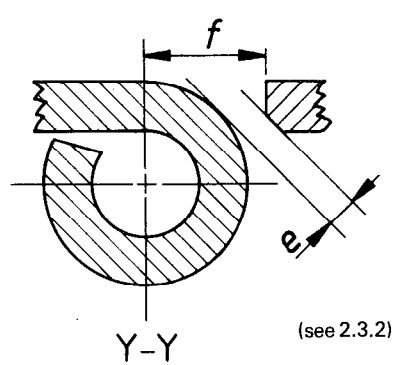
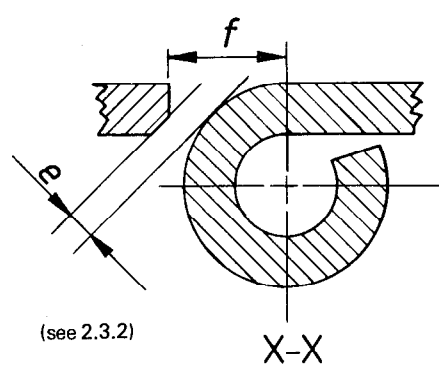
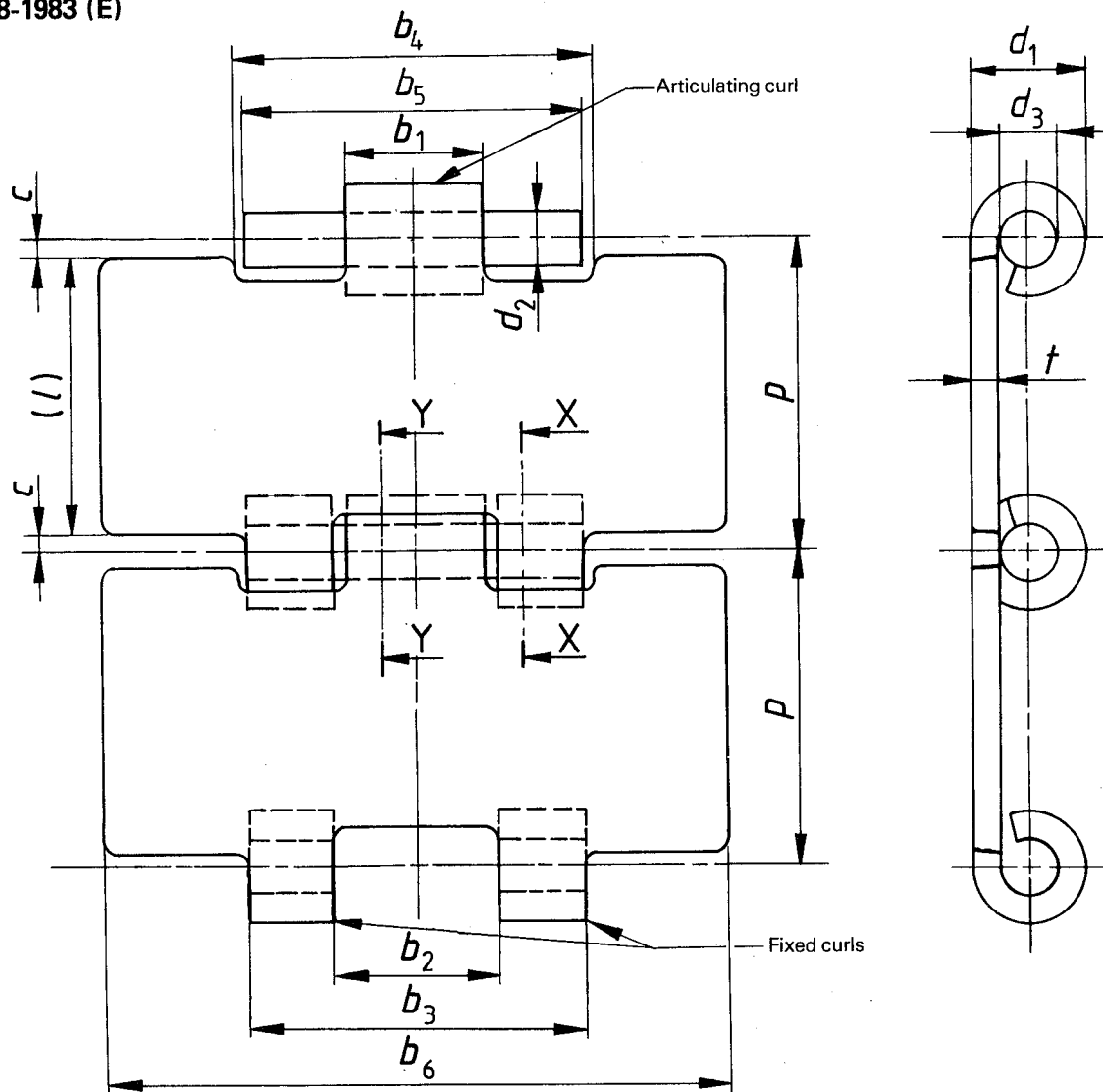
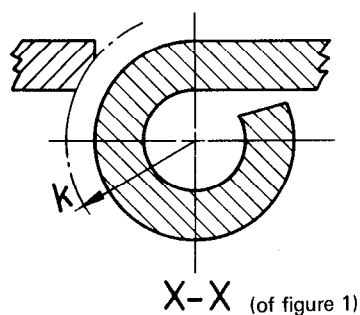


Figure 1 — Single-hinge chain



$k = 6,70 \text{ mm (0.264 in)}$

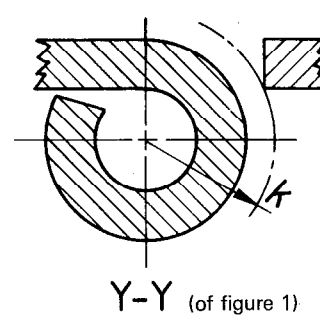


Figure 2 — Hinge clearance of chamfered slat

Figure 3 — Hinge clearance of slat with square edge