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Technical drawings — Rolling bearings —
Part 2:
Detailed simplified representation

Dessins techniques — Roulements —

Partie 2: Représentation simplifiée particulière

ISO 8826-2:1994

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Foreword

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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 8826-2 was prepared by Technical Committee ISO/TC 10, *Technical drawings, product definition and related documentation*.

ISO 8826 consists of the following parts, under the general title *Technical drawings — Rolling bearings*:

- Part 1: *General simplified representation*
- Part 2: *Detailed simplified representation*

Annex A of this part of ISO 8826 is for information only.

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Introduction

ISO 8826 provides rules for the simplified representation of rolling bearings.

The principle of drawing practice is to depict the object to scale using lines. In simplified representations, only essential features are shown, preferably in outline (in order to save time and effort).

The degree of simplification depends on the kind of object represented, the scale of the drawing and the purpose of the documentation. This means that either a general simplified representation or a detailed one may be used. A detailed representation shows more details of rolling bearings, for example the number of rows or the possibility of alignment.

In order to avoid misunderstandings, only one kind of simplification, either the general or the detailed simplified representation, should be used on a drawing.

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Technical drawings — Rolling bearings —

Part 2: Detailed simplified representation

1 Scope

This part of ISO 8826 specifies a detailed simplified representation for various rolling bearings. This representation should be used in cases where it is not necessary to show the exact shape and details of the rolling bearings, for example in assembly drawings.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 8826. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 8826 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 15:1981, *Rolling bearings — Radial bearings — Boundary dimensions — General plan.*

ISO 104:—¹⁾, *Rolling bearings — Thrust bearings — Boundary dimensions, general plan.*

ISO 355:1977, *Rolling bearings — Metric tapered roller bearings — Boundary dimensions and series designations.*

ISO 582:—²⁾, *Rolling bearings — Metric series — Chamfer dimension limits.*

ISO 1206:1982, *Needle roller bearings — Light and medium series — Dimensions and tolerances.*

ISO 3030:1974, *Needle roller bearings — Needle roller and cage assemblies — Metric series — Part 1: Radial needle roller and cage assemblies — Boundary dimensions and tolerances.*

ISO 3031:1979, *Needle roller bearings — Thrust needle roller and cage assemblies, thrust washers — Dimensions and tolerances.*

ISO 3245:1974, *Rolling bearings — Needle roller bearings, drawn cup, without inner ring — Metric series — Boundary dimensions and tolerances.*

ISO 8443:1985, *Radial ball bearings with flanged outer ring — Flange dimensions.*

ISO 8826-1:1989, *Technical drawings — Rolling bearings — Part 1: General simplified representation.*

ISO 9628:1992, *Rolling bearings — Insert bearings and eccentric locking collars.*

1) To be published. (Revision of ISO 104:1979)

2) To be published. (Revision of ISO 582:1979)

3 Method of representation

3.1 General rules

See ISO 8826-1.

The space on a drawing where a rolling bearing is located shall be circumscribed by means of a square or rectangle (even if there is no inner or outer ring respectively).

3.2 Elements of detailed simplified representation for rolling bearings

The elements of detailed simplified representation for rolling bearings are given in table 1.

Examples of combinations of bearing features (according to table 1) and load-bearing characteristics are given in table 2.

In representations perpendicular to the bearing axis, the rolling element may be shown as a circle, regardless of its actual shape (ball, roller, needle, etc.) and size (see figure 1).

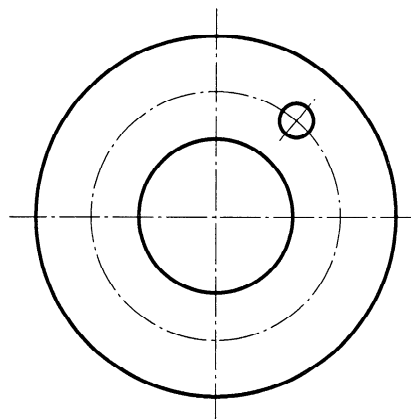








Figure 1

3.3 Detailed simplified representation

The detailed simplified representation of rolling bearings is shown in tables 3 to 6.

Roller bearings shown in tables 3 to 5 are always depicted in the space above the horizontal axis of the bearing, while table 6 refers to the vertical axis of the bearing.

Table 1 — Elements of detailed simplified representation for rolling bearing features

No.	Element	Description	Application
1.1	 1)	Long continuous straight line	Line representing the axis of the rolling element, without possibility of alignment
1.2	 1)	Long continuous arc of circle	Line representing the axis of the rolling element, with possibility of alignment
1.3	Alternative indication (examples)   2)  2)  2)	Short continuous straight line, crossing the long continuous line No. 1.1 or 1.2 at 90° (preferred simplified indication) coincident with the centreline (radial) of each rolling element. circle wide rectangle narrow rectangle	Number of rows and position of the rolling elements ball roller needle-roller, pin

1) This element may be shown inclined, depending on the type of the bearing.
2) Instead of the short continuous straight line, this variation may be used to represent the rolling element.